

AUSTRALIAN POWERLINE INDUSTRIES

ELECTRICAL CATALOGUE

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A. CABLE CRIMPING

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BATTERY CRIMPER – 12T

IZUMI



FORCE

12 Tonne Type

JAW OPENING

30mm C-HEAD

CAPACITY

300mm² Al/Cu

Standard 12 tonne Dies

Nest/Indent & "C" connector Dies

SPECIFICATIONS

Capacity	Max 300mm ² Al/Cu
Motor	14.4VDC
Reservoir capacity	170cc
Force at die face	106kN
Size	410 (L) X 275 (H) X 90 (W) mm
Weight	8.35kg with BP-80 Battery

The number of crimps per charge for maximum size conductor: **Approximately 68**

FEATURES

The REC-3430A is a battery operated 12 tonne compression tool that accommodates 12 tonne Standard dies, for applying compression fittings to copper aluminium and ACSR conductors widely used in the industry.

Portability and handling have now been improved, and it now features a new larger handle opening with a rocker type advance/retract switch located on top of the handle for 1-finger trigger operation. The handle opening and rocker type switch is large enough for gloved hand. It also incorporates a built-in foot base with finger indents for easier handling when holding the tool with both hands.

MODEL NO. REC-3430A



DETAILS

- Dies are sold separately
See pages A17-A18 for 12T Dies
- Specify the manufacturer's die and connector numbers.
- LED lights when battery capacity becomes low
- Well balanced & compact design
- Built-in foot base with finger indents
- New rapid advance system
- 14.4 VDC powerful motor
- Right or left handed operation
- 350 degree swivel head
- Quality backed by ISO9001

ORDERING INFORMATION

See Page A10 for Battery & Charger Details

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. **REC-3430A(BB)**

Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-3430A

Includes: Crimper with case and Shoulder Strap only
(No Battery or Charger)

MODEL NO. REC-3510A



RUBBER BOOT
FOR ADDED
ELECTRICAL
PROTECTION

**NEW PINCH
REDUCED
PISTON DESIGN**

SPECIFICATIONS

Ram stroke	42 mm (Jaw opening)
Capacity	Max 300mm ² AL/400mm ² Cu
Motor	14.4VDC
Reservoir capacity	170cc
Force at die face	106kN
Size	440 (L) X 275 (H) X 90 (W) mm
Weight	9.3kg with BP-80 Battery

The number of crimps per charge for maximum size conductor: **Approximately 68**

FEATURES

The REC-3510A is the third generation of this model and has an opening of 42mm and accepts 12 tonne Standard dies, for applying compression fittings to copper aluminium and ACSR conductors widely used in the industry.

Portability and handling have now been improved, and it now features a new larger handle opening with a rocker type advance/retract switch located on top of the handle for 1-finger trigger operation. The handle opening and rocker type switch is large enough for gloved hand. It also incorporates a built-in foot base with finger indents for easier handling when holding the tool with both hands.

IZUMI



FORCE

12 Tonne Type

JAW OPENING

42mm C-HEAD

CAPACITY

300mm² AL & 400mm² CU

Accepts existing 12 tonne Standard Dies
Nest/Indent & "C" connector Dies

DETAILS

- Dies are sold separately
See pages A17-A18 for 12T Dies
- Specify the manufacturer's die and connector numbers.
- LED lights when battery capacity becomes low
- Well balanced & compact design
- Larger handle opening with rocker type switch
- Built-in foot base with finger indents
- New rapid advance system
- 14.4 VDC powerful motor
- Right or left handed operation
- 350 degree swivel head
- Quality backed by ISO9001

ORDERING INFORMATION

See Page A10 for Battery & Charger Details

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. **REC-3510A(BB)**

Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-3510A

Includes: Crimper with case and Shoulder Strap only
(No Battery or Charger)

BATTERY CRIMPER – 12T

IZUMI



ROBO-RW
Analyser

FORCE

12 Tonne Type

JAW OPENING

31mm C-HEAD

CAPACITY

300mm² Al/Cu

Accepts Standard 12 tonne Dies
Nest/Indent & "C" connector Dies

MODEL NO. REC-5431A



RUBBER BOOT FOR
ADDED ELECTRICAL
PROTECTION

**NEW PINCH
REDUCED
PISTON DESIGN**

SPECIFICATIONS

Ram stroke	31 mm (Jaw opening)
Capacity	Max 300mm ² AL/CU
Motor	14.4VDC
Reservoir capacity	135cc
Force at die face	106kN
Size	392 (L) X 343 (H) X 70 (W) mm
Weight	6.9kg with BP-80 Battery

The number of crimps per charge for maximum size conductor: **Approximately 75**

FEATURES

The REC-5431A is a battery operated 12 tonne compression tool that accommodates 12 tonne Standard dies for applying compression fittings to copper aluminium and ACSR conductors widely used in the industry.

Pistol type 12 tonne tool makes it easier for working in confined spaces.

The trigger switch and return button are activated by only one hand so that other hand is always free to hold working material.

New electronic circuit board with LED indicates compression status and battery capacity.

The REC-5431 has new electronic memory function to record repair history by connecting optional "ROBO-RW" analyser.

DETAILS

- Dies are sold separately
See pages A17-A18 for 12T Dies
- Specify the manufacturer's die and connector numbers.
- Rapid ram advance mechanism
- Well balanced design
- 14.4 VDC powerful motor
- Right or Left handed operation
- 350 degree swivel head
- Quality backed by ISO9001

ORDERING INFORMATION

See Page A10 for Battery & Charger Details

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. **REC-5431A(BB)**

Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-5431A

Includes: Crimper with case and Shoulder Strap only
(No Battery or Charger)

MODEL NO. REC-5510A



IZUMI

RUBBER BOOT



FORCE

12 Tonne Type

JAW OPENING

42mm C-HEAD

CAPACITY

300mm² AL & 400mm² CU

Accepts existing 12 tonne Standard Dies
Nest/Indent & "C" connector Dies

SPECIFICATIONS

Capacity	Max 300mm ² AL & 400mm ² CU
Motor	14.4VDC
Reservoir capacity	135cc
Force at die face	106kN
Size	421 (L) X 286 (H) X 78 (W) mm
Weight	7.8kg with BP-80 Battery

The number of crimps per charge for maximum size conductor: **Approximately 75**

FEATURES

The REC-5510A is a battery operated 12 tonne class compression tool that accommodates 12 tonne Standard dies for applying compression fittings to copper aluminium and ACSR conductors widely used in the industry.

Pistol type 12 tonne tool makes it easier for working in confined spaces.

The trigger switch and return button are activated by only one hand so that other hand always free to hold working material.

New electronic circuit board with LED indicates compression status and battery capacity.

The REC-5510 has new electronic memory function to record repair history by connecting optional "ROBO-RW" analyser.

DETAILS

- Dies are sold separately
See pages A17-A18 for 12T Dies
- Specify the manufacturer's die and connector numbers.
- Rapid ram advance mechanism
- Well balanced design
- 14.4 VDC powerful motor
- Right or Left handed operation
- 350 degree swivel head
- Quality backed by ISO9001

ORDERING INFORMATION

See Page A10 for Battery & Charger Details

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. **REC-5410A(BB)**

Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-5510A

Includes: Crimper with shoulder strap and case only (No Battery or Charger)

BATTERY CRIMPER – 12T

IZUMI



FORCE

12 Tonne Type

JAW OPENING

28mm

CAPACITY

300mm² Al/Cu

Standard 12 tonne Dies
Nest/Indent & "C" connector Dies

MODEL NO. REC-H5130

REMOVEABLE END
BLOCK

RUBBER BOOT FOR
ADDED ELECTRICAL
PROTECTION



SPECIFICATIONS

Capacity	300mm ² AL/CU
Motor	14.4 VDC
Reservoir Capacity	100 cc
Force at die face	120kN
Size	420 (l) x 256 (h) x 78 (w) mm
Weight	6.47kg with BP-80 Battery

The number of crimps per charge for maximum size conductor: **Approximately 75**

FEATURES

The REC-H5130 is a battery operated 12 tonne class compression tool that accommodates 12 tonne type dies for applying compression fittings to copper, aluminium and ACSR conductors.

This H head tool makes it easier to access to tight cable joints particularly in the control box.

New rapid advance hydraulic mechanism is incorporated in the Four Thousand series pistol type tools and a built-in, present bypass cartridge will kick out when the output reaches to 120kN.

The trigger switch and return button are activated by only one hand so that other hand always free to hold working material.

DETAILS

- Dies are sold separately
See pages A17-A18 for 12T Dies
- Specify the manufacturer's die and connector numbers.
- Rapid ram advance mechanism
- Well balanced design
- 14.4 VDC powerful motor
- Right or Left handed operation
- 350 degree swivel head
- Quality backed by ISO9001

ORDERING INFORMATION

See Page A10 for Battery & Charger Details

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. **REC-H5130A(BB)**

Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-H5130

Includes: Crimper with shoulder strap and case only (No Battery or Charger)

MODEL NO. REC-3610



15 Tonne Hex Die-Set Suits REC-3610				
Model No.	mm ²	A/F	Material	Crimp Width
15T-26.0AFCU	300	26.0	CU	10.5mm
15T-28.1AFCU	400	28.1	CU	8.5mm
15T-31.0AFCU	500	31.0	CU	7.2mm
15T-37.0AFCU	630	37.0	CU	6.2mm
15T-39.0AFAL	400/500	39.0	AL	16.5mm
Model No.	Description			
15T-PU-ADAPTOR	PICK UP ADAPTOR TO SUIT STANDARD 12TONNE DIES			

IZUMI



FORCE

15 Tonne Type

JAW OPENING

50mm with Dies fitted

CAPACITY

**300mm² AL & 400mm² CU
500mm² AL & 630mm² CU with special dies**

Accepts existing 12 tonne Standard Dies Nest/Indent & "C" connector Dies when used with 15T-PU-ADAPTOR

SPECIFICATIONS

Capacity	Max 300mm² AL & 400mm² CU using 15T-PU ADAPTOR 500 mm AL & 630mm CU with special Dies
Motor	14.4VDC
Reservoir capacity	170cc
Force at die face	134kN
Size	480 (L) X 275 (H) X 90 (W) mm
Weight	10.7kg with BP-80 Battery

The number of crimps per charge for maximum size conductor: **Approximately 68**

FEATURES

The REC-3610 has the largest output and piston travel of all our battery tools. The piston travel is 50mm which accepts mid-span copper and aluminium sleeve and cables.

Portability and handling have now been improved and, The Crimper now features a new larger handle opening with a rocker type advance/retract switch located on top of the handle for 1-finger trigger operation. The handle opening and rocker type switch is large enough for gloved hand. It also incorporates a built-in foot base with finger indents for easier handling when holding the tool with both hands.

DETAILS

- Dies are sold separately. **Refer above chart for 15 Tonne dies and Pages A17-A18 for 12 Tonne Dies (To use 12T dies you must purchase the 15T-PU-ADAPTOR as in the above table)**
- LED lights when battery capacity becomes low
- Well balanced & compact design
- Larger handle opening with rocker type switch
- Built-in foot base with finger indents
- New rapid advance system
- 14.4 VDC powerful motor
- 180 degree swivel head
- Quality backed by ISO9001

ORDERING INFORMATION

See Page A10 for Battery & Charger Details

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. **REC-3610(BB)**
Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-3610

Includes: Crimper with case and Shoulder Strap only (No Battery or Charger)

BATTERY MULTI TOOL – 12T

MODEL NO. REC-5200MX

fitted with 200AT-410 12 Tonne Crimp Head

PULL PIN TO OPEN
HINGED HEAD

IZUMI



SPECIFICATIONS

Motor	14.4 VDC
Reservoir capacity	100 cc
Force at die face	127 kN
Size	356 (L) x 326 (H) x 70 (W) mm
WEIGHT	5.8kg with BP-80 Battery (without crimp head)

Crimp Head Attachment

Accepts existing 12 ton U-type dies

Maximum Capacity 300mm² Al/Cu

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. REC-5200MX (BB)
Includes: Battery Tool, Shoulder strap, Carrying case,
2 Batteries (BP-80) and 12VDC-240VAC Charger
(CH-90DCC-A)
(INTERCHANGEABLE HEADS NOT INCLUDED)



See Page A10 for Battery and Charger Details

MODEL NO. 200AT-410 12Tonne Crimp Head attachment to suit REC-5200MX

Opening between Die faces 17mm

Accepts existing 12 ton U-type dies

See pages A17-A18 for 12T Dies

Maximum Capacity 300mm² AL/CU

Weight 2.4kg

MODEL NO. 200AT-50YC Cable Cutter attachment to suit REC – 5200MX

Cutting capacity: up to 50mm OD cable
(including insulation)
Cuts nonferrous cables only.
Approximately 50 cuts BP-80

Weight: 1.0kg

MODEL NO. 200AT-AP18 Angle Steel Puncher attachment to suit REC – 5200MX

Punching capacity Supplied with 3 sets of Punch Dies 10.5, 13.5 & 17.5 mm Diameter for 6mm thick steel

Size 186 x 130 x 67 mm

Weight 3.8 kg

Approximately 100 holes punched per charge

MODEL NO. 200AT-S16 Re-bar and Guy Strand Cutter attachment to suit REC – 5200MX

Cutting Capacity:	Number Of Cuts/ Charge (BP-70MH)
16mm rebar	80
16mm soft steel bar	120
13mm stainless steel bar	105
16mm Guy Strand	105

MODEL No. 200AT-13WT Threaded rod cutter attachment to suit REC – 5200MX

Cutting Capacity:	Number Of Cuts/ Charge (BP-70MH)
M10 or 3/8BSW Steel Threaded Rod	80
Stainless Steel	52
M12 or 1/2 BSW Steel Threaded Rod	82
Stainless	42

Includes a 13WT-07 M12 Blade Set

OPTIONAL BLADE SETS

13WT-06 M10, 13WT-02 3/8 BSW, 13WT-05 1/2 BSW

MODEL NO. 200AT-9PD Knock out Puncher attachment to suit REC-5200MX

Punching capacity up to 63.5mm Stainless Steel and (115.5mm) diameter hole on 3.2mm thickness Mild Steel.

Approximately 42 Holes BP-80

DETAILS

- Punch & die, Draw Studs & Spacer Collars are the same as those used for SH-10.
- 200AT-9PD comes with Draw Studs & Spacer Collars.

FOR STAINLES STEEL, MILD STEEL, BRASS, ALUMINIUM ETC, TO 3.2MM THICK

BATTERY TOOL ACCESSORIES

A CABLE CRIMPING

MODEL NO. 79300060 – 230VAC ADAPTOR

“Suits 14.4V IZUMI battery Tools”

Including: Crimpers, Cutters, Punchers and Impact Wrench



SPECIFICATIONS

Model No.	79300060
Input Voltage	230V / 50Hz
Output Voltage	14.4V 5A – 60A
Power Consumption	70W – 800W
Cable Length	3m, water spray resistant.
Temperature Range	10c – 40c Ambient
Weight	1 kg
Dimensions (excluding cable)	125 x 70 x 120 mm

DID YOU KNOW
Allows IZUMI Battery tools to be used with 230VAC mains power.



BATTERIES AND CHARGER



MODEL No. BP-80 BATTERY

FEATURES

SUITS ALL IZUMI BATTERY TOOLS

- High Capacity 3.0Ah Battery Pack
- Lightweight
- Impact resistant Housing
- Minimally effected by high Temperatures
- Minimal Self Discharge
- Longer run times, compared to NiCad
- No memory effect



MODEL No. CH-90 CHARGER

FEATURES

CHARGES ALL IZUMI BATTERIES

- Able to Charge all Izumi Batteries (Li-Ion, Ni-MH & Ni-CAD)
- Charger has conditioning feature to accommodate memory effect
- Top-off & Maintenance trickle charge for NiCad Batteries
- Monitors battery temperature & Battery Voltage for correct Charging and battery faults



**240V BATTERY CHARGER ADAPTOR
MODEL No. CH-ACC-A**



**12V BATTERY CHARGER ADAPTOR
MODEL No. CH-DCC**



Model No	Components	Voltage/Source	Charge Time	Wt
CH-90DCC-A	1 x CH-90 Base 1 x CH-DCC Charge Lead DC 1 x CH-ACC-A Charge Lead AC	240VAC/12VDC	60min	975g
BP-80 UPGRADE PACK	1 x CH-90 Base 1 x CH-DCC Charge Lead DC 1 x CH-ACC-A Charge Lead AC 2 x BP-80 Li-Ion Batteries (14.4VDC)	240VAC/12VDC	60min	2115g
Model No	Description	Voltage/Source		Wt
BP-80	Battery Lithium Ion	14.4VDC		570g
CH-90	Charging Base Only	240VAC/12VDC		225g
CH-DCC	Charge Lead 12VDC	12VDC		250g
CH-ACC-A	Charge Lead 240VAC	240VAC		500g



IMPROVING BATTERY LIFE

(For Older Style BP-70MH + BP-70E)

Izumi batteries should regularly be cycle refreshed. This is certainly required if your battery is not quite performing as well as it used to.

You can use the refresh/condition button on most Izumi chargers with your Izumi batteries. This process takes approximately 8 hours to complete and will improve the longevity of batteries, if the battery has not already started degrading.

BATTERY TOOL ACCESSORIES

BATTERIES AND CHARGER



MODEL No. CH35EMC

Suitable for NI-CAD & NI-MH Batteries Only



MODEL No. CH70DCH

Suitable for NI-CAD & NI-MH Batteries Only



MODEL No. BP-70MH

Nickel-Metal Hydride Standard Battery

BATTERY CHARGER AND BATTERY PACK SPECIFICATIONS

Model No.	Voltage	Battery	Charging Time (min)	Capacity (Ah)	Weight (g)
CH-35EMC	240V	BP-70MH Charger	40		900
CH-70DCH	12-24VDC	BP-70MH Charger	100		660
BP-70MH	14.4V	Nickel-metal hydride Battery		3.0	850

IMPROVING BATTERY LIFE


(For Older Style BP-70MH + BP-70E – Ni-CAD/Ni-MH)

Izumi batteries should regularly be refreshed. This is certainly required if your battery is not quite performing as well as it used to.


You can use the refresh button located on CH35EMC with your Izumi batteries. This process takes approximately 8 hours to complete and will improve the longevity of batteries, if the battery has not already started degrading.



MANUAL CRIMPER 12 TONNE



EP-431



FORCE
12 Tonne Type

JAW OPENING
31mm C-HEAD

CAPACITY
300mm² Al/Cu

Standard 12 tonne Dies
Nest/Indent & “C” connector Dies

MODEL NO. EP-431

INCLUDED ITEMS

12T Hand Crimper & Double moulded carrying case.

SPECIFICATION


Reservoir capacity	145 cc
Force at die face	106kN
Size	610 (l) x 150 (w) mm
Weight	6.3kg

FEATURES


The EP-431 is unique in that it has a large jaw opening of 31mm and features a two stage rapid advance pumping system.

This tool was designed for the electrical contractor and electric utility lineman who is confronted with larger cable diameter and larger connectors.

Most of the internal hydraulic components are the same as the EP-410 and the EP-510C.



EP-510C
FITTED WITH A RUBBER BOOT FOR ADDED ELECTRICAL PROTECTION



FORCE
12 Tonne Type

JAW OPENING
42mm C-HEAD

CAPACITY
300mm² AL & 400mm² CU

Standard 12 tonne Dies
Nest/Indent & “C” connector Dies

MODEL NO. EP-510C

INCLUDED ITEMS

12T Hand Crimper & Double moulded carrying case.

SPECIFICATION

Reservoir capacity	200 cc
Force at die face	118 kN
Size	644 (l) x 150 (w) mm
Weight	8.0 kg

FEATURES

The EP-510C, hand operated compression tool features a two stage rapid advance pumping system

The jaw opening of 42mm can accept larger, Mid-span sleeve connection can be installed on larger cables and the cable can then be removed through the jaw opening.

DETAILS (Applies to both models)

- Dies are sold separately
See pages A17-A18 for 12T Dies
- Specify the manufacturer's die and connector numbers
- Two stage pumping action for rapid ram advance to the connector hold position with minimum pumping action
- Replaceable Dropout bypass valve cartridge for easy repair
- Fibreglass handles
- 180 degree swivel head
- Twist handle pressure release

LOW PRESSURE CRIMPER – 12T

IZUMI

SAFETY TRIGGER



FORCE

12 Tonne Type

JAW OPENING

36mm C-HEAD

CAPACITY

300mm² Al/Cu

Standard 12 ton Dies
Nest/Indent & "C" connector Dies

SPECIFICATION

Force at die face	110 kN
Size	127 (dia) x 557 (l) mm
Weight	8.25 kg

FEATURES

The LP-430B/FF hydraulic tool is directly powered by PTO (Power Take Off) from EWP (Elevated Work Platform) or any vehicle with a low pressure hydraulic circuit having oil pressure of 140 Bar and maximum flow of 35 litres/min.

The LP-430B/FF is designed to operate with either Open-Centre or Closed Centre hydraulic system by rotating the head to the Correct Setting.

The LP-430B/FF has the same compression head as the EP-430 so that dies are interchangeable with all 12 ton U-type dies industry standard dies can be used.

It has a built-in relief valve to prevent overloading the tool from more than 140 Bar of input pressure.

MODEL NO. LP-430B/FF

LOW PRESSURE 12TONNE CRIMPER



DETAILS

- Low pressure hydraulic compression tool
- Direct power input from truck PTO
- Relief setting at 140 Bar
- Suitable for EWP
- Covered handle & trigger guard
- Dies are sold separately

See pages A17-A18 for 12T Dies

****NOTE ALSO AVAILABLE**

MODEL NO. LP-430BPB

Polyurethane Hand block, to Minimise "PINCH POINT" of ram



Safety Trigger alleviates tool being operated accidentally

REMOTE HEAD CRIMPER 12 TONNE



EP-431H



FORCE
12 Tonne Type

JAW OPENING
31mm C-HEAD

CAPACITY
300mm² Al/Cu
Standard 12 ton Dies
Nest/Indent & "C" connector Dies

MODEL NO. EP-431H

INCLUDED ITEMS
Crimp Head, Steel carrying case
with die tray

SPECIFICATION

Oil volume required	50 cc
Force at die face	106kN
Size	340 (L) mm
Weight	4.75kg


FEATURES

The EP-431H is a remote C-head that requires an external 700 BAR or 10,000 PSI pumping source for operation. This unit has a larger jaw opening than the EP-410H and EP-H130H.


This tool was designed to accommodate U-type dies to applying compression fittings to copper, aluminium and ACSR conductor.

DETAILS

- Dies are sold separately
See pages A17-A18 for 12T Dies



EP-510HC



FORCE
12 Tonne Type

JAW OPENING
42mm C-HEAD

CAPACITY
300mm² AL & 400mm² CU
Standard 12 ton Dies
Nest/Indent & "C" connector Dies

MODEL NO. EP-510HC

INCLUDED ITEMS
Crimp Head, Steel carrying case
with die tray

SPECIFICATION

Oil volume required	77 cc
Force at die face	118 kN
Size	420 (L) mm
Weight	5.7 kg

FEATURES

The EP-510HC is remote C-head that requires an external 700 BAR or 10,000 PSI pumping source

The larger jaw opening of 42mm accepts conductors and mid-span sleeve connections.

The tool was designed to accommodate industry standard dies for applying compression fittings to copper, aluminium, and ACSR conductor.

DETAILS

- Dies are sold separately
See pages A17-A18 for 12T Dies
- MODEL NO. EP-510HC (Rubber Covered Head)

See page A39 for hydraulic coupling configurations

REMOTE HEAD CRIMPER – 12T



WEIGHT

3.3kg

FORCE

12 Tonne Type

JAW OPENING

25mm

CAPACITY

300mm² Al/Cu

Standard 12 ton Dies
Nest/Indent & "C" connector Dies

MODEL NO. TEP-410HB

12 TONNE **TITANIUM** COMPRESSION HEAD

INCLUDED ITEMS

Crimp Head, Steel carrying case with die tray

MODEL NO. TEP-410HB



SPECIFICATION

Oil volume require	42 cc
Force at die face	106kN
Dimensions	340 (l) mm
Weight	3.3 kg

FEATURES

The TEP-410HB is a lightweight remote C-head that requires an external 700BAR or 10,000 PSI pumping source for operation. This unit is manufactured from titanium, which makes it significantly lighter than comparable cast steel compression heads.

Consult your connector manufacturer for exact cable, connector and die combinations. This tool was designed to accommodate 12 ton dies for applying compression fitting to copper, aluminium, and ACSR conductor.

DETAILS

- Dies are sold separately
See pages A17-A18 for 12T Dies

See page A39 for hydraulic coupling configurations

REMOTE HEAD CRIMPER 12 TONNE



EP-H130H
FITTED WITH A RUBBER BOOT FOR ADDED ELECTRICAL PROTECTION

REMOVEABLE END BLOCK

FORCE
12 Tonne Type
JAW OPENING
28mm
CAPACITY
300mm² Al/Cu
Standard 12 ton Dies
Nest/Indent & "C" connector Dies

MODEL NO. EP-H130H

INCLUDED ITEMS

Crimp Head, Steel carrying case with die tray

SPECIFICATIONS

Oil volume required	51 cc
Force at die face	120kN
Size	317 (l) mm
Weight	4.1 kg

FEATURES


The EP-H130H is a H-head with a 28mm jaw opening. It accepts all shell type dies and dies for deep indent crimps currently used in 12 ton tool on today's market.


A 700 BAR external pump is required to operate this tool.

DETAILS

- Dies are sold separately

See pages A17-A18 for 12T Dies



EP-610HS2


FORCE
15 Tonne Type
JAW OPENING
40mm with dies fitted
CAPACITY
300mm² AL & 400mm² CU Or
500mm² AL & 630mm² special dies

MODEL NO. EP-610HS2

INCLUDED ITEMS

Steel carrying case with die tray
Accepts existing 12 ton Standard Dies
Nest/Indent & "C" connector Dies when used with 15T-PU-ADAPTOR
Will crimp up to 500 mm AL & 630mm CU by purchasing special Dies

SPECIFICATIONS

Oil volume required	100 cc
Force at die face	139kN
Size	375 (l) mm
Weight	7.0 kg

FEATURES

The EP-610HS2 is a remote C-head that requires an external 700 BAR or 10,000 PSI pumping source.

DETAILS

- Dies are sold separately.

See pages A17-A18 for 12T Dies & page A6 for 500-630sqmm Dies

DIES ALUMINIUM 12-13T

DIES ALUMINIUM 12-13 TONNE

Suitable for ALL brands of 12/13T Battery, Manual & Remote Head Hydraulic Compression Tools

Model No.	Hex A/F	Length Of Crimp Face	Conductor Details
Aluminium			
12T-9.0AFAL	9.0 mm	22.0 mm	6-35 mm ²
12T-13.2AFAL	13.2 mm	22.0 mm	50-70 mm ²
12T-17.3AFAL	17.3 mm	22.0 mm	95-120 mm ²
12T-21.0AFAL	21.0 mm	18.0 mm	150-185 mm ² UTILUX
12T-22.0AFAL	22.0 mm	18.0 mm	150-185 mm ² CABAC
12T-28.4AFAL	28.4 mm	18.0 mm	240-300 mm ²
Overhead			
12T-14.0AFAL	14.0 mm	22.0 mm	7/2.25 UTILUX
12T-14.5AFAL	14.5 mm	22.0 mm	7/2.50
12T-18.0AFAL	18.0 mm	22.0 mm	7/3.00 & 7/3.75 CABAC
12T-18.3AFAL	18.3 mm	22.0 mm	
12T-19.0AFAL	19.0 mm	22.0 mm	7/4.50 CABAC
12T-22.0AFAL	22.0 mm	18.0 mm	19/3.25 CABAC
12T-26.2AFAL	26.2 mm	18.0 mm	19/3.75 CABAC
12T-30.3AFAL	30.3 mm	18.0 mm	19/4.75
ABC			
12T-14.0AFALABC	14.0 mm	9.0 mm	25 mm ² ABC
12T-17.3AFALABC	17.3 mm	9.0 mm	35 – 70 mm ² ABC
12T-21.5AFALABC	21.5 mm	9.0 mm	95 – 150 mm ² ABC
12T-25.0AFALABC	25.0 mm	8.0 mm	ABC
Specials			
12T-7.7AFAL	7.7 mm	25.0 mm	
12T-16.5AFAL	16.5 mm	22.0 mm	
12T-24.9AFAL	24.9 mm	18.0 mm	
12T-30.0AFAL	30.0 mm	18.0 mm	
Steel			
12T-7.5AFST	7.5 mm	10 mm	INNER STEEL (ACSR)
12T-9.5AFST	9.5 mm	10 mm	INNER STEEL (ACSR)

Nest & Indent Dies For "Ug" Aluminium Sector Cable

Conductor Size	3 CORE		4 CORE	
	Nest	Indent	Nest	Indent
120 mm ²	12T-12NEST	12T-INDENT16	12T-14NEST	12T-INDENT16
185 mm ²	12T-12NEST	12T-INDENT18	12T-15NEST	12T-INDENT18
240 mm ²	12T-12NEST	12T-INDENT19	12T-15NEST	12T-INDENT19

CUTTING DIE

SEE PAGE A21 FOR DETAILS

12T-CUTTINGDIE	Guy Wire/Guy Strand/EHS Guy Wire	16mm (5/8")
	ACSR/AL/CU	17.5mm
	Ground Rod & Soft Steel Bolts	16mm (5/8")

PLEASE NOTE:

THIS CHART IS A GUIDE ONLY, PLEASE CHECK WITH YOUR LUG/LINK MANUFACTURER FOR AF SIZES



STEEL STORAGE BOX WITH FOAM INSERT

[15 DIE CAPACITY]

MODEL No. 12T-METAL-BOX



PLASTIC STORAGE BOX ALSO AVAILABLE

[18 DIE CAPACITY]

MODEL No. 12T-BOX



DIES
0.5kg
APPROX

DIES COPPER 12-13 TONNE

Suitable for ALL brands of 12/13T Battery, Manual & Remote Head Hydraulic Compression Tools

Model No.	Hex A/F	Length Of Crimp Face	Conductor Details
Copper			
12T-4.4AFCU	4.4 mm	6.35 mm	6 mm ²
12T-5.7AFCU	5.7 mm	6.35 mm	10 mm ²
12T-6.3AFCU	6.3 mm	17.5 mm	16 mm ² **
12T-7.7AFCU	7.7 mm	17.5 mm	25 mm ² **
12T-9.2AFCU	9.2 mm	17.5 mm	35 mm ² **
12T-10.4AFCU	10.4 mm	17.5 mm	50 mm ² **
12T-11.5AFCU	11.5 mm	17.5 mm	70 mm ² **
12T-14.2AFCU	14.2 mm	17.5 mm	95 mm ² **
12T-16.5AFCU	16.5 mm	14.0 mm	120 mm ² **
12T-18.3AFCU	18.3 mm	14.0 mm	150 mm ² **
12T-20.0AFCU	20.0 mm	14.0 mm	185 mm ² **
12T-23.1AFCU	23.1 mm	10.0 mm	240 mm ² **
12T-26.0AFCU	26.0 mm	10.0 mm	300 mm ² **
12T-28.1AFCU	28.1 mm	8.0 mm	400 mm ²

Die Sets **Indicates Dies Included In the Sets Below

12T-CUSET-MB	16mm ² to 300mm ² (11 Dies)	Metal Case
12T-CUSET	16mm ² to 300mm ² (11 Dies)	Plastic Case
12T-CUSET-MB400	16mm ² to 400mm ²	Metal Case
12T-CUSET400	16mm ² to 400mm ²	Plastic Case

Overhead

12T-8.3AFCU	8.3 mm	9.0 mm	7/1.63 & 7/1.70
12T-9.6AFCU	9.6 mm	9.0 mm	7/2.00 & 7/2.03
12T-11.5AFCU	11.5 mm	9.0 mm	7/2.62
12T-13.0AFCU	13.0 mm	17.5 mm	37/.064 19/2.11
12T-14.8AFCU	14.8 mm	9.0 mm	19/2.0 & 19/2.11
12T-19.3AFCU	19.3 mm	14.0 mm	19/2.57

Copper Screen

12T-12.7AFCU	12.7 mm	14.0 mm	185mm ² TRIPLEX
12T-7.5AFCU	7.5 mm	16.0 mm	35mm ² TRIPLEX

Specials

12T-8.7AFCU	8.7 mm	17.5 mm	SPECIAL
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CUTTING DIE

SEE PAGE A21 FOR DETAILS

12T-CUTTINGDIE	Guy Wire/Guy Strand/EHS Guy Wire	16mm (5/8")
	ACSR/AL/CU	17.5mm
	Ground Rod & Soft Steel Bolts	16mm (5/8")

COPPER "C" DIES AVAILABLE



Die Model No;	SIZE
12T-U1011	Size UO
12T-U997	Size U997
12T-UC	Size UC
12T-UO	Size U1011



STEEL STORAGE BOX WITH FOAM INSERT

(15 DIE CAPACITY)
MODEL No. 12T-METAL-BOX



PLASTIC STORAGE BOX ALSO AVAILABLE

(18 DIE CAPACITY)
MODEL No. 12T-BOX



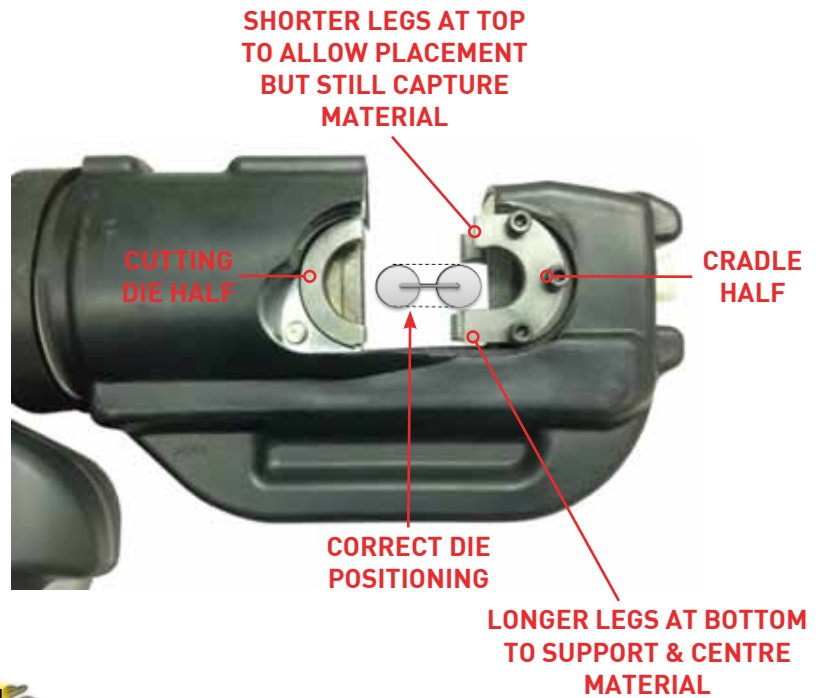
DIES
0.5kg
APPROX

CUTTING DIES – 12T

MODEL No. 12T-CUTTING DIE



**AUSTRALIAN
DESIGNED AND
MANUFACTURED**



CAN BE USED IN

- 12 Tonne Hand Hydraulic Crimping Tools
- 12 Tonne Battery Powered Crimpers
- Remote Head Hydraulic Crimpers
- 12 Tonne Low Pressure Crimper

BENEFITS

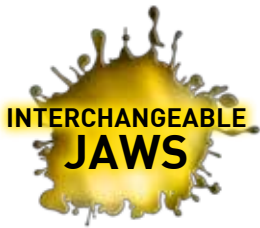
- Less costly than dedicated Cutting Tools
- Simple to install in Crimping Tools
- Require no adjustment for cutting different materials
- Heavy duty design with 6 high tensile cap screws.

CAN CUT THE FOLLOWING MATERIALS

Guy Wire/Guy Strand/EHS Guy Wire	16mm (5/8")
ACSR/AL/CU	17.5mm
Earth Rod & Soft Steel Bolts	16mm (5/8")



MODEL NO. REC-14M



FORCE	20kN
RAM STROKE	6.6mm
CAPACITY	Insulated Terminals: 1.25 (Red), 2 (Blue) & 5.5mm (Yellow). Non-Insulated Terminals: 2, 5.5, 8 & 14mm

SPECIFICATIONS

Motor (V DC)	6
Force at die face (kN)	20
Size (mm) LxHxW	317 x 214 x 65
Weight (kg)	1.8

The number of crimps per charge for maximum size terminals: **Approximately 85 (BP-6VR)**

FEATURES

The REC-14M1 was designed for crimping insulated and non-insulated terminals up to 14 mm². With interchangeable jaws detachable from the link, various jaws to suit crimping terminals can be selected.

This portable light weight, rechargeable crimper is ideal for control panel wiring. Jaws are available for non-insulated terminals, ring-sleeves and closed-end terminals.

Specify the jaw type when ordering this tool.

The number of crimps per charge for 14mm² terminal: 85 crimps (BP-80).

DETAILS

- Jaws are sold separately
 - 14AT-214: 2-14mm² Non-Insulated Terminal
 - 14AT-345: 1.25-5.5mm² Insulated Terminal
 - 14AT-14YC: Cable Cutter (38mm² Cu)
- Rapid ram advance mechanism
- Well balanced design
- 14.4 VDC powerful motor
- Right or Left handed operation
- Quality backed by ISO9001

ORDERING INFORMATION

See Page A10 for Battery & Charger Details

PLEASE NOTE: Add (AA) to the model number suffix for lithium-ion batteries e.g. **REC-14M(AA)**
Includes: Shoulder strap, Carrying case, 2 Batteries (BP-6VR) and 240VAC Charger (CH-6M)

MODEL NO: REC-14M

Includes: Crimper with shoulder strap and case only (No Battery or Charger)

BATTERY CRIMPER – 5T

IZUMI



FORCE

5 Tonne

JAW OPENING

15mm Between Die Faces

CAPACITY

CEMBRE type dies

10 to 185mm² CU

Up to 150 mm² ABC

SPECIFICATION

Applicable Hex

Compression Max. 185 mm CU LugsMax.
150 mm ABC

Motor 14.4 VDC

Force at Die face 5 TONNE

Dimensions (L x H X W) 397 x 79 x 70 (mm)

Weight 2.72kg with BP-80 Battery

FEATURE

The ECO-261E is an In-Line type battery operated compression tool, accepts CEMBRE type dies from 10mm CU to 185mm CU and up to 150mm Aerial Bundled Cable

See pages A22 for 5T CEMBRE Dies.

This portable light weight rechargeable compression tool is easier to access tight cable joints in narrow control panels.

The control buttons are activated by only one hand so that other hand is always free to hold working material.

MODEL No. ECO-261E



DETAILS

- Fully automatic, self-contained Battery Operated Compression Tool
- 14.4 VDC powerful motor
- Right or Left handed operation
- Optional Quick charger
- Quality backed by ISO9001
- Fast operation
- Cutter Dies available for hard wire strand to 10mm diameter (MODEL No. 5T-MB52-50)

**NOTE Alternative ORDERING

See Page A10 for Battery & Charger Details

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. **ECO-261E(BB)**

Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12/24VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: ECO-261E(BB)-C/DIE

Includes: Crimper with 2 x Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A), Cutting Die (5T-MB52-50), Wrist Strap and Carry Case

MODEL NO: ECO-261E

In-Line Battery Powered Compression Tool
INCLUDES: Double moulded carrying case & Wrist strap

DIES 5 TONNE CEMBRE (TO SUIT ECO-261E INLINE CRIMPER)

Model No.	Af Dimension	Description	Tool
Aluminium			
5T-M132-50	13.20mm	13.2 AF AL	ECO-261E
5T-M140-50	14.00mm	14.0 AF AL	ECO-261E
5T-M173-50	17.30mm	17.3 AF AL	ECO-261E
5T-M215-50	21.50mm	21.5 AF AL	ECO-261E
5T-M220-50	22.00mm	22.0 AF AL	ECO-261E
5T-M90-50	9.00mm	9.0 AF AL	ECO-261E
Copper			
5T-M104-50	10.40mm	10.4 AF CU	ECO-261E
5T-M115-50	11.50mm	11.5 AF CU	ECO-261E
5T-M142-50	14.20mm	14.2 AF CU	ECO-261E
5T-M148-50	14.80mm	14.8 AF CU 19/2.00 O/HEAD	ECO-261E
5T-M165-50	16.50mm	16.5 AF CU	ECO-261E
5T-M183-50	18.30mm	18.3 AF CU	ECO-261E
5T-M190-50	19.00mm	19.0 AF CU	ECO-261E
5T-M200-50	20.00mm	20.0 AF CU	ECO-261E
5T-M63-50	6.30mm	6.3 AF CU	ECO-261E
5T-M77-50	7.70mm	7.7 AF CU	ECO-261E
5T-M87-50	8.70mm	8.7 AF CU	ECO-261E
5T-M92-50	9.20mm	9.2 AF CU	ECO-261E
5T-M96-50	9.60mm	9.6 AF CU	ECO-261E
Cutting Die			
5T-MB52-50	10.00mm CUT	STAY WIRE CUTTING DIE 10.0mm OD	ECO-261E

IZUMI



BATTERY CRIMPER 5T

IZUMI



FORCE

5 Tonne

JAW OPENING

13mm Between Die Faces

CAPACITY

#111 series type dies

10 to 185mm² CU

Up to 150 mm² ABC

SPECIFICATION

Applicable Hex Compression	Max. 185 mm CU LugsMax. 150 mm ABC
Motor	14.4 VDC
Force at Die face	5 TONNE
Dimensions (L x H X W)	397 x 79 x 70 (mm)
Weight	2.6kg with BP-80 Battery

FEATURE

The ECO-50 is an In-Line type battery operated compression tool, accepts SERIES 5T-111 DIES type dies from 10mm CU to 185mm CU and up to 150mm Aerial Bundled Cable

See pages A24 for 5T SERIES 111 Dies.

This portable light weight rechargeable compression tool is easier to access tight cable joints in narrow control panels.

The control buttons are activated by only one hand so that other hand is always free to hold working material.

MODEL NO. ECO-50



DETAILS

- Fully automatic, self-contained Battery Operated Compression Tool
- 14.4 VDC powerful motor
- Right or Left handed operation
- Optional Quick charger
- Quality backed by ISO9001
- Cutter Dies available for hard wire strand to 10mm diameter (See page A24 for details)
- Fast operation

****NOTE Alternative ORDERING**

See Page A10 for Battery & Charger Details

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. **ECO-50(BB)**

Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: ECO-50(BB)-C/W DIES 14, 17.3, 21.5 ABC & 5T-111-CUTTING DIES

Includes: Crimper with 2 x Batteries (BP-80) and 12/24VDC-240VAC Charger (CH-90DCC-A), Cutting Die (5T-111-CUTTING) 3 x ABC Dies, Wrist Strap and Carry Case

MODEL NO: ECO-50

In-Line Battery Powered Compression Tool
Includes: Battery tool, case and wrist strap

DIES 5 TONNE SERIES 111 (TO SUIT ECO-50 INLINE CRIMPER)

Model No.	Dimensions Of Hex Die		Style	Application
	A/F (mm)	Crimp Length (mm)		
5T-111-5763CU/1	5.7	12	2	10 sq mm copper lugs and links
	6.3	12	2	16 sq mm copper lugs and links
5T-111-7792CU/1	7.7	12	2	25 sq mm copper lugs and links
	9.2	12	2	35 sq mm copper lugs and links
5T-111-104115CU/1	10.4	9	2	50 sq mm copper lugs and links
	11.5	9	2	70 sq mm copper lugs and links
5T-111-142CU/1	14.2	6	1	95 sq mm copper lugs and links
5T-111-165CU/1	16.5	6	1	120 sq mm copper lugs and links
5T-111-148CU/1	14.8	6	1	19/2 Overhead Conductor
5T-111-183CU/1	18.3	5	1	150 sq mm copper lugs and links
5T-111-200CU/1	20.0	5	1	185 sq mm copper lugs and links
5T-111-ALSPEC/1	9.0	12	3	6,10,16,25,35 sq mm aluminium lugs and links
	13.2	12	3	50,70 sq mm aluminium lugs and links & 80 sq mm CCT
	17.3	9	3	95,120 sq mm aluminium lugs and links
5T-111-140173AL/1	14.0	9	2	Pre-insulated service sleeves (MJPB range)
	17.3	9	2	Pre-insulated lugs and sleeves 25-70 sq mm
5T-111-180190AL/1	18.0	9	2	Full tension sleeve on 7/3.00 and 7/3.75
	19.0	9	2	Full tension sleeve on 7/4.50
5T-111-210AL/1	21.0	9	1	Non tension sleeve on 19/3.75 also 120 mm CCT
5T-111-215AL/1	21.5	9	1	Pre-insulated lugs and sleeves 95-150 sq mm
5T-111-220AL/1	22.0	9	1	Full tension sleeve on 19/3.75
5T-111-CUTTING	Cutting Die set suitable for hard wire up to 10.0 dia.			
Each die has dual markings cable size mm2 and A/F hex.				

Note: Each die set consists of 2 pieces

STYLE 1



STYLE 2



STYLE 3



IZUMI

BATTERY CRIMPER/CUTTER – 6T

IZUMI



LED LIGHT

FORCE

6 Tonne

BATTERY TYPE & CAPACITY

Lithium-Ion 14.4VDC 3.0Ah

CAPACITY

Crimp # SL-6CJ head up to 185mm² Al/Cu/ACSR

**Cut # SL-CH up to 32mm OD Cu/Al 300mm²
SL-ACSR up to 20mm OD ACSR
(Single Steel Core)**

SPECIFICATION

Motor (V D C)	14.4
Force at die face (kN)	60
Size (mm) LxHxW	89 x 560 x 69
Weight (kg)	3.6 (Inc battery)
Battery Capacity (Ah)	3.0 (Lithium-Ion)
Charge Time (hrs)	1.0

The number of crimps per charge for maximum size terminals : Approximately 100 (BP-80) Lithium-Ion

FEATURE

The SL-ND was designed light and ergonomic, to be used one handed and operate in confined spaces.

With interchangeable jaws the SL-ND has a choice of three jaw types: SL-6CJ Jaw for crimping (6T capacity); the SL-CH jaw for cutting Al/Cu; and the SL-ACSR for cutting ACSR. Quickly and easily change between head types with the easy pull-pin design.

The SL-6CJ Jaw accommodates 6 ton round type dies for applying compression fittings to copper, aluminum, and ACSR conductors widely used in the industry.

The SL-ND also features an LED light for illuminating dark work areas and a fully enclosed weather resistant housing. Powered by a Lithium-Ion battery.

MODEL NO. SL-ND



SL-6CJ
6T Crimp*



SL-ACSR
Cut ACSR*



SL-CH
Cut Al/Cu*



SL-ND
Simple Spring
Loaded Twist
Pin Design for
Changing Head

SL-6CJ
6T Crimp*



DETAILS

- Jaws are sold separately
- **SL-6CJ** : Crimping Capacity (Up to 185mm² Al/Cu/ACSR)*
Dies sold separately
- **SL-CH** : Cutting Capacity (Up to 32mmOD 300mm² Cu/Al)v
- **SL-ACSR** : Cutting Capacity (Up to 20mmOD ACSR, Single Core Steel Only)
- Rapid ram advance mechanism
- Well balanced design
- 14.4 VDC powerful motor
- Right or Left handed operation
- Quality backed by ISO9001



ORDERING INFORMATION

See Page A25 for 6T crimping dies
See Page A10 for Battery & Charger Details

PLEASE NOTE:

MODEL NO: SL-ND
Includes: SL-ND unit with case only
(No Battery or Charger)

MODEL NO: SL-ND/6CJ(BB)
Includes: SL-ND unit, SL-6CJ crimp Head, 2 batteries
BP-80, 12VDC/240VAC charger CH-90DCC-A with case

MODEL NO: SL-ND/6CJ/ACSR(BB)
Includes: SL-ND unit, SL-ACSR cutting head, SL-2
batteries BP-80, 12VDC/240VAC charger CH-90DCC-A

MODEL NO: SL-ND/CH(BB)
Includes: SL-ND unit, SL-CH cutting head, SL-2
batteries BP-80, 12VDC/240VAC charger CH-90DCC-A
with case with case

6 TON ROUND DIES

**SUITS KKT SL150HP, KLAUKE EK425, IZUMI SL-ND
DOES NOT SUIT IZUMI 5 TONNE TOOLS SL-ND**

COPPER

Model No.	Dimensions Of Hex Die (mm)		Cond Details (mm ²)
	A/F	Crimp Long	
6T-6.3mmAFCU	6.3	6.0	16
6T-7.7mmAFCU	7.7	10.0	25
6T-9.2mmAFCU	9.2	10.0	35
6T-10.4mmAFCU	10.4	9.0	50
6T-11.5mmAFCU	11.5	9.0	70
6T-14.2mmAFCU	14.2	6.0	90
6T-16.5mmAFCU	16.5	6.0	120
6T-18.3mmAFCU	18.3	5.0	150
6T-20.0mmAFCU	20.0	5.0	185

ALUMINIUM

Model No.	Dimensions Of Hex Die (mm)		Cond Details (mm ²)
	A/F	Crimp Long	
6T-9.0mmAFAL	9.0	12.0	10-35
6T-13.2mmAFAL	13.2	12.0	50-70
6T-17.3mmAFAL	17.3	9.0	95-120
6T-22.0mmAFAL	22.0	9.0	150-185

ABC

Model No.	Dimensions Of Hex Die (mm)		Cond Details (mm ²)
	A/F	Crimp Long	
6T-14.0mmAFALABC	14.0	9.0	10-35
6T-17.3mmAFALABC	17.3	9.0	50-70
6T-21.5mmAFALABC	21.5	9.0	95-120

REMOTE CRIMP HEAD & DIES 25T

IZUMI



FORCE
25 Tonne

CAPACITY
500mm² AL & 630mm² CU

MODEL NO: EP-250H ITEMS INCLUDED

25 Tonne Head, heavy-duty metal carry-case, with die tray



MODEL NO. EP-250H

SPECIFICATIONS

Capacity	25 tonne compression head will crimp cable lugs to 630mm ² Copper and 500mm ² Aluminium.
Weight	6.8kg
Working pressure	700 Bar. 10,000 PSI

FEATURES

Unique twist-lock die retaining pin holds top die in place and cannot be misplaced or incorrectly fitted.

DETAILS

- See below for available Dies, Special Die Sizes available upon request
- Adaptor die to accept standard 12 tonne shell-type dies available (Model No. 25T-12T)
- Full range of hand, foot, air /hydraulic electric & battery pumps are available
- Alternative hydraulic coupling types available upon request
- NOT Compatible with Cabac/Cembre crimp head due to pin size

ALUMINUM DIES

Model No.	Hex A/F (mm)	Width Of Crimp Face (mm)	Conductor Details
25T-30.0AFAL	30.0	25.0	19/3.75 PEARL-NEON AAAC
25T-39.0AFAL	39.0	25.0	400/500mm ²

COPPER DIES

Model No.	Hex A/F (mm)	Width Of Crimp Face (mm)	Conductor Details
25T-18.3AFCU	18.3	16.0	150mm ²
25T-20.0AFCU	20.0	16.0	185mm ²
25T-23.1AFCU	23.1	16.0	240mm ²
25T-26.0AFCU	26.0	16.0	300mm ²
25T-28.1AFCU	28.1	16.0	400mm ²
25T-31.0AFCU	31.0	16.0	500mm ²
25T-37.0AFCU	37.0	12.2	630mm ²

ACSR DIES

Model No.	Hex A/F (mm)	Width Of Crimp Face (mm)	Conductor Details
25T-28.5AFAL	28.5	27.0	30/7/2.50 GRAPE

STEEL INNER DIES

Model No.	Hex A/F	Width Of Crimp Face	Conductor Details
25T-16.0AFST	16.0	17.0	AS USED ON GRAPE

25T TO 12T DIE ADAPTOR ALSO AVAILABLE (Model No. 25T-12T)
SPECIAL DIES CAN BE MANUFACTURED TO YOUR SPECIFICATIONS

See page A39 for hydraulic coupling configurations

REMOTE CRIMP HEAD & DIES 30T

MODEL No. EP-520C



IZUMI



FORCE

30 Tonne

JAW OPENING

26mm Between Die Faces

CAPACITY

500mm² AL & 630mm² CU

SPECIFICATION

Capacity	630mm ² CU and 500mm ² AL and C-Connectors
Oil volume required	132 cc
Output Force	30 TONNE
Size	125 (dia) x 380 (h) mm
Weight	17.5 kg

FEATURE

The EP-520C is a single acting, 294kN press that is designed to compress Aluminium sleeves and Copper lugs.

- The EP-520C remote head requires an external 700 BAR or 10,000 PSI pumping source.
- Simple and rigid frame type construction makes the press lighter yet durable.
- Used extensively for crimping of stainless steel balustrade fittings.
- Dies can be manufactured to suit all types of fittings.



DETAILS

- Dies are sold separately.
- Specify the manufacturer's die and connector numbers.
- Simple and compact design
- Yoke type head with hinged opening
- 30 metric tonne output
- Positive die locking mechanism
- Supplied in heavy duty carry case

Copper 30 Tonne Dies		
Model No.	Hex Af	Conductor Details
30T-23.1AFCU	23.1 mm	240mm ²
30T-26.0AFCU	26.0 mm	300mm ²
30T-28.1AFCU	28.1 mm	400mm ²
30T-31.0AFCU	31.0mm	500mm ²
30T-37.0AFCU	37.0mm	630mm ²
Aluminium 30 Tonne Dies		
30T-5.4/6.5AF	5.4/6.5 mm	DUEL HEX FOR STEEL
30T-7.8 / 10.8 Duel Hex For Steel		
30T-SPECIAL	PLEASE NOMINATE	ESPECIALLY MADE FOR AL or CU

See page A39 for hydraulic coupling configurations

A CABLE CRIMPING

REMOTE CRIMP HEAD 60T

IZUMI



FORCE

54 Tonne

JAW OPENING

38mm Between Die Faces

CAPACITY

**1000mm² AL & 1000mm² CU
ACSR up to 48.00mm A / F Crimp Size**

MODEL No. EP-60S



**SUPPLIED WITH
GROUND STAND &
METAL STORAGE CASE**

SPECIFICATION

Oil volume required	303 cc
Forced at die face	540 kN at 700 Bar (10,000 PSI) of oil pressure
Size	146 (dia) x 450 (h) mm with ground stand
Weight	19.8kg without Ground Stand 21.4 with Ground Stand

ACCESSORIES

Optional Die adapter for 12 ton type dies
MODEL No. 60T-12T

FEATURES

The EP-60S compression head was designed as a portable tool for installing compression sleeve and terminals for transmission construction and maintenance work.

Suitable For Transmission Line Construction

DETAILS

- Dies are sold separately
See page A30 for 60T Dies.
- Accepts all dies used for Alcoa, 60 ton compressors
- Specify the manufacturer's die and connector numbers
- Portable and light weight
- Detachable ground stand
- Large handle for easy carrying
- Single acting hydraulic pump required: 700 Bar Working Pressure
- Industry Standard 60 Tonne Classification Head

See page A39 for hydraulic coupling configurations

60 TONNE DIES

ALUMINIUM

Model No.	Hex A/F (mm)	Conductor Detail (mm ²)	Crimp Length (mm)	Die Length (mm)
60T-28.3AFAL	28.3	240-300	50	66.7
60T-39.0AFAL	39.0	400	50	66.7
60T-43.2AFAL	43.2	500-630	50	66.7
60T-52.5AFAL	52.5	800-1000	40	40

COPPER

Model No.	Hex A/F (mm)	Conductor Detail (mm ²)	Crimp Length (mm)	Die Length (mm)
60T-23.1AFCU	23.1	240	25	66.7
60T-26.0AFCU	26.0	300	25	66.7
60T-28.1AFCU	28.1	400	25	66.7
60T-31.0AFCU	31.0	500	25	66.7
60T-37.0AFCU	37.0	630	25	66.7
60T-43.2AFCU	43.2	800	25	51
60T-48.0AFCU	48.0	1000	25	51

ACSR/AAC/AAAC

Model No.	Hex A/F (mm)	Crimp Length (mm)	Die Length (mm)
60T-28.5AFAL	28.5	50	66.7
60T-34.5AFAL	34.5	50	66.7
60T-40.0AFAL	40.0	50	66.7
60T-44.5AFAL	44.5	50	66.7
60T-47.5AFAL	47.5	45	50
60T-48.0AFAL	48.0	45	45



STEEL INNER ACSR

Model No.	Hex A/F (mm)	Crimp Length (mm)	Die Length (mm)
60T-16.0AFST	16.0	19.0	66.7
60T-17.0AFST	17.0	19.0	66.7
60T-18.0AFST	18.0	19.0	66.7
60T-19.0AFST	19.0	19.0	66.7
60T-20.0AFST	20.0	19.0	66.7

Different manufacturers of crimp lugs have designed their lugs to be crimped at different A/F (Across Flats) dimension. Please check with your lug manufacturer before selecting ACSR / AAC / AAAC die sets.

Also available:

MODEL No.

60T-12T

DIE ADAPTOR SET

100T-60T

DIE ADAPTOR SET

60T-FLAT-SHORT

FLAT DIE SHORT

60T-FLAT-LONG

FLAT DIE LONG

60T-FLAT-HEX

HALF HEX, HALF FLAT DIE



REMOTE CRIMP HEAD 100T

IZUMI



FORCE

100 Tonne

JAW OPENING

17mm Between Dies Faces

CAPACITY

**Max connector outer diameter:
Approx. 75mm**

MODEL NO. EP-100W

100 ton class compression head

Max connector outer diameter: Approx. 75mm



EP-100W shown with HPE-4 pump
(sold separately, see page C18)

SPECIFICATIONS

Oil volume required	314cc
Output force	980 kN
Size	200 (dia) x 350 (h) mm
Weight	32.0 kg

FEATURES

The EP-100W is 100 ton class compression head for full tension, transmission and substation connections and require an external double acting 700 Bar pumping source.

Double acting means hydraulically advancing the ram to build correct tonnage, after-which the hydraulic pressure is reversed to retract the ram. It expedites ram retracting time.

Removable die cap design helps operator with easy insertion and removal of the connector.

Dies are exclusive to this model not interchangeable with other manufacturers.

DETAILS

- Dies are sold separately
See page A32 for 100T Dies
- Specify the manufacturer's die and connector numbers.
- Light weight
- Removable die cap for easy connector positioning
- Simple design for easy maintenance
- Double acting hydraulic pump required
- Supplied without storage case

See page A39 for hydraulic coupling configurations

REMOTE CRIMP HEAD – 100T & VALVE

MODEL NO. EP-100W/SMVT-43



INCLUDED ITEMS:

100 TONNE PRESS (EP100W) & RIKEN VALVE (SMVT-43) WEIGHT: 39.5KG Without dies

100 Tonne Head Can Be Operated With The Following Pumps

IZUMI HPE-2D, HPE-4, HPE-4M

100 TONNE DIES ACSR/AAC/AAAC

Model No.	A/F (Across Flats) (mm)	Length Of Crimps Face (mm)
100T-28.5AFAL	28.5	75.0
100T-34.5AFAL	34.5	75.0
100T-40.0AFAL	40.0	75.0
100T-44.5AFAL	44.5	75.0
100T-47.5AFAL	47.5	75.0
100T-48.0AFAL	48.0	75.0

ACSR Inner Steel

Model No.	A/F (Across Flats) (mm)	Length Of Crimp Face (mm)
100T – 16.0AFST	16.0	35.0
100T – 17.0AFST	17.0	35.0
100T – 18.0AFST	18.0	35.0
100T – 19.0AFST	19.0	35.0
100T – 20.0AFST	20.0	35.0

ADAPTOR

Model No.	Description
100T – 60T	100T Adaptor to suit standard 60 tonne dies.

FEATURES

Mounted on Aluminium base, c/w protective Aluminium cage.

This IZUMI EP100W double Acting 100 ton compression Head is also available with the SMVT-43 Directional Valve. When the valve is fitted with the compression Head it also includes an alloy base plate, pressure gauge & hydraulic couplings with carry handles for easy portability.

The SMVT-43 valve enables the operator to Crimp terminations right at the compression head.

The EP100W is operated by a double acting Power Pump.

We offer, Petrol driven, Battery Driven or Electrically operated Power Pumps to suit.



RIKEN SMVT-43 VALVE
Shown with 63mm Gauge
Included



Different manufacturers of crimps lugs have designed their lugs to be crimped at different A/F (Across Flats) dimension. Please check with your lug manufacturer before selecting ACSR / AA/ AAAC die sets.

Dies for copper conductors are available made to order.

See page A39 for hydraulic coupling configurations

REMOTE CRIMP HEAD 200T

IZUMI



FORCE

200 Tonne

JAW OPENING

31mm Between Die Faces

CAPACITY

**Max connector outer diameter:
Approx. 100 mm**

MODEL NO. EP – 200W

200 ton class compression head

Max connector outer diameter: Approx. 100 mm



EP-200W shown with HPE-4 pump
(sold separately, see page C18)

SPECIFICATIONS

Oil volume required	1,134 cc
Output force	1961 kN
Size	270 (dia) x 415 (h) mm
Weight	86.0 kg

FEATURES

The EP-200W is a 200 ton class compression head which accepts shell type dies exclusively designed for the EP-200W. It requires an external double acting 700 Bar pumping source.

Double acting is hydraulically advancing the ram to build correct tonnage, after-which the hydraulic pressure is reversed to retract the ram. It expedites ram retracting time as well as connector binding between dies.

Removable die cap design helps operator an easy insertion and removable of the connector.

DETAILS

- Dies are sold separately.
- Specify the manufacturer's connector numbers.
- Light weight
- Removable die cap for easy connector positioning
- Simple design for easy maintenance
- Double acting hydraulic pump required
- Can be used for SWAGING Wire Ropes with correct Dies

**SPECIAL DIES CAN BE DESIGNED &
MANUFACTURED FOR DIFFERENT MATERIALS
TYPES & APPLICATIONS**

See page A39 for hydraulic coupling configurations

COMPACT BATTERY PUMP 700 BAR

MODEL No. CP700-EC & CP700

intercable

MODEL No. CP700-EC(BB)
(basic unit) without
digital display



MODEL No. CP700EC(BB)
MODEL No. CP700(BB)
Pump, Hose (1.5m Non-Conductive c/w
CEJN M&F 115 Series Couplings & Al Dust
Caps), Two Lithium-Ion Batteries, 240VAC
Charger, Shoulder Strap, Remote Control
(1.5m L) with Bag.



MODEL No. CP700(BB)
with digital display

SPECIFICATIONS

Tank Capacity (mL)	800
Usable Oil (mL)	750
Operating pressure	700 bar (70MPa)
Power	Adjustable up to 1.2kW
Battery voltage	28.7VDC
Battery capacity	5.2Ah
Battery Charge Time (min)	50
Battery Life (# of charges)	1,000 (Approx)
Crimps/Cuts per Battery	Approx. 125 @ 150mm2Cu
Range of use	-20/+55°C continuous operation
Measurements	205 x 290 x 190
Weight (Approx.)	4.6kg (with battery)

ACCESSORIES & REPLACEMENTS

Model No	Description
NG3	Adaptor to Operate Pump off Mains Power 240VAC (Accessory)
FS02	Switch, Foot Operated for CP700/EC (Accessory)
RA11	Battery, Lithium-Ion 18V 3.0Ah (Spare)
LG8	Charger, 240VAC for RA11 (Spare)
SCH1.5	Hose, Non-Conductive CEJN M&F Couplings & Dust Caps 1.5m Long (Spare)
CP-F	Control, Remote Corded for CP700/EC (Spare)
CP-USB	Cable, USB for CP700/EC (Spare)
TTCP01	Bag, Carry for CP700/EC units and accessories (Spare)
TG3	Strap, Shoulder for CP700/EC (Spare)

DETAILS

- Adjustable Retraction Mode to increase battery life
- Light, compact and robust structure
- Ergonomic design for right or left hand operation
- Remote control lead (1.5 m)
- Possibility to carry the special transportation bag with additional (optional) pockets, by a shoulder strap or attached to a belt (optional)
- Possibility to attach the remote control unit to the apparatus, belt or shoulder strap with a clamp support, on buttons (Ø 18.7 mm) or with a magnet on flat and rounded surfaces
- Fitted with Cejn high-flow snap coupler
- Anti-scratch and shock resistant display protection
- Rapid return of apparatus, thanks to high return capacity
- Electronic sensor pressure control
- High yield Lithium-Ion battery
- Powerful (700Bar - LP=1.2L/min & HP=0.2L/min)

BATTERY PUMPS (KKT) 850 BAR

KKT SINGLE & DOUBLE ACTING HYDRAULIC BATTERY PUMPS



MODEL NO. 2050DA
Single Acting Battery Pump

C/W Cejn 10-116 series female Flush Face coupler & Aluminium dust cap



MODEL NO. 2050DACT
Double Acting Battery Pump

C/W Cejn 10-116 series male & female Flush Face couplers & Aluminium dust caps.
Must use with optional 4 way Directional Control Valve, externally Mounted

UNIVERSAL HYDRAULIC PUMP

- For use with Internally Fitted battery or mains operation 240V/50Hz up to 850 Bar
- Automatic recognition of Pressure demand with cut off function when required pressure is reached (20 to 850 Bar). Can be used to operate tool other than KKT, please contact your nearest SF branch for details.
- Maximum Output Oil Pressure can be Factory Pre-set to suit Customers requirements, e.g. 700BAR
- Adjustable Power up to 1.1KW

FASTEST BATTERY PUMP ON THE MARKET

- Inching function for interruptible tool feed
- Energy saving mode – Pump switches off 10 minutes after last cycle or at low battery load
- Automatic cut off when no load after working cycle (i.e punching tools in order to protect dies and save energy)
- Rugged plastic housing – (control buttons, coupling devices and display are well protected)
- Li-ion Battery 24V 5.6Ah
- Integrated charger operated off 230VAC/50Hz
- The capacity of the battery is sufficient for one working day
- Can be used continuously with main power without damage to the battery or pump
- Magnetic Holding Strip on back of Remote Hand Switch for convenient positioning

ACCESSORIES

- "FOOTSWITCH" Also available
Model No. 2050DAFOOTSWITCH
- "HOSE" 3m (Orange) Non Conductive with coupling M & F **Model No. 170202**
- "HOSE" 5m (Orange) Non Conductive with coupling M & F **Model No. 170205**
- "CARRY BAG" Fat Max bag (for pump hose and small tool) **Model No. 1.93.952**

TECHNICAL DATA

Dimension (mm)	220 x 165 x 260 (including handle)
Weight (kg)	7.65 (8.45 with non-conductive hose and coupling)
Flow (L/min)	Automatic adaptor up to 1



230VAC Lead & Pendant Control Included as Standard

**BATTERY PUMP
ACCESSORIES (KKT) 850BAR**



KKT HYDRAULIC PUMP ACCESSORIES



Accessories suitable for Model
Numbers 2050DACT Double Acting
and 2050DA Single Acting Pumps

A CABLE CRIMPING

ACCESSORIES



Model No.
2050DAFOOTSWITCH
"FOOTSWITCH"



Model No. 1.93.952
"CARRY BAG" Fat Max
bag (for pump hose and
small tool)



Model No. 170205
"HOSE" 5m (Orange)
850bar Working
Pressure Non
Conductive with Cejn
M&F 10-116 series
Couplings & Aluminium
dust caps

Model No.170202
"HOSE" 3m (Orange)
850bar Working
Pressure Non
Conductive with Cjen
M&F 10-116 series
Couplings & Aluminium
dust caps

Fittings Included On Hose	Description
101161219	COUPLING 1/4" BSPF
101156202	NIPPLE 1/4" BSPF
101154100	ALUMINIUM DUST CAP (coupler)
101154102	ALUMINIUM DUST CAP W/PRESSURE ELIMINATOR

REMOTE CRIMP HEADS 850BAR (KKT)



SINGLE ACTING PUMP (2050DA)

- Shown with 15tonne Crimp Head (SL150HP)
- And Non Conductive Hose (170202)
- Crimp Head suitable for Single Acting Pump: Model Numbers 2050DA
- Crimp Heads are fitted with Cjen 10-115-6212 Male Nipples,
- 19-950-0083 Seal and 10-115-4101 Aluminium Dust Cap

COMPRESSION HEAD TECHNICAL DATA

Model No.	SL150HP
Approximate Weight (kg)	2.5 (inc. DIES)
Crimping Force at 850bar (kN)	150 (15tonne)
Crimp Range (mm ²)	Up to 400 (Accepts standard 12tonne dies)
Cable Type	Al, Cu
Dimensions (mm)	85 x 259 mm

See pages A17-A18 for 12 tonne dies

Model No.	SL300HP
Approximate Weight (kg)	5.2 (inc. DIES)
Crimping Force at 850bar (kN)	280 (28tonne)
Crimp Range (mm ²)	Up To 500sqmm ² & AL 630mm CU
Cable Type	Al, Cu
Dimensions (mm)	88 x 282

See page A26 for dies
(Standard 25 tonne dies suit)

Model No.	SL550HP
Approximate Weight (kg)	11.95 (inc. DIES)
Crimping Force at 850bar (kN)	540 (55tonne)
Crimp Range (mm ²)	Up to 630 AL & 1000 CU
Cable Type	ACSR Outer & Steel Inner, Al, Cu
Dimensions (mm)	88 x 282

See page A37 for 55 tonne dies

SL550HP-HANDLE 1 or 2 can be fitted
SL550HP-BASE Avoids Coupler damage
and gives stability

SPECIAL FEATURE

AIR SPRING TECHNOLOGY



SL150HP

REMOVEABLE END BLOCK



SL300HP

TOP DIE RETAINING PIN



SL550HP

FOR KKT 55 TONNE CRIMP HEAD (MODEL NO. SL550HP)

ALUMINIUM DIES

Model No.	Hex A/F (mm)	Conductor Details (mm ²)	Crimp Length (mm)	Die Length (mm)
55T-28.3AFAL	28.3	240/300	50	50
55T-39.0AFAL	39.0	400/500	50	50
55T-43.2AFAL	43.2	630	50	50

COPPER DIES

Model No.	HEX A/F (mm)	Conductor Details (mm)	Crimp Length (mm)	Die Length (mm)
55T-23.1AFCU	23.1	240	24	50
55T-26.0AFCU	26.0	300	25	50
55T-28.1AFCU	28.1	400	25	50
55T-31.0AFCU	31.0	500	25	50
55T-37.0AFCU	37.0	630	25	50
55T-43.2AFCU	43.2	800	25	50
55T-48.0AFCU	48.0	1000	25	50

ACSR / AAC / AAAC

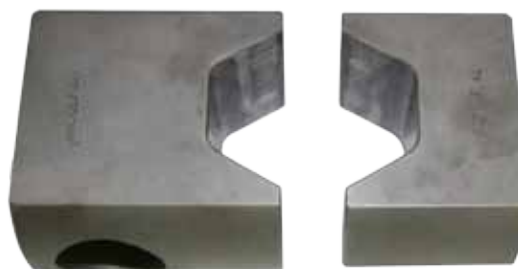
Model No.	HEX A/F (mm)	Crimp Length (mm)	Die Length (mm)
55T-28.5AFAL	28.5	50	50
55T-30.0AFAL	30.0	50	50
55T-34.5AFAL	34.5	50	50
55T-40.0AFAL	40.0	50	50
55T-44.5AFAL	44.5	50	50
55T-47.5AFAL	47.5	50	50
55T-48.0AFAL	48.0	45	50

ACSR INNER STEEL

Model No.	HEX A/F (mm)	Crimp Length (mm)	Die Length (mm)
55T-16.0AFST	16.0	19.0	50
55T-17.0AFST	17.0	19.0	50
55T-18.0AFST	18.0	19.0	50
55T-19.0AFST	19.0	19.0	50
55T-20.0AFST	20.0	19.0	50

Different manufacturers of crimps lugs have designed their lugs to be crimped with different A/F (Across Flats) dimension

Please check with your lug manufacturer before selecting ACSR / AAC / AAAC die sets.



COUPLINGS & HOSES

“CEJN” HIGH PRESSURE COUPLINGS



A one-hand-to-connect, non-drip coupling with built-in safety function

The one-hand-to-connect Flat-Face couplings have been developed to reliably meet the rigorous demands of high pressure hydraulic applications. Engineered to exacting tolerances, using the most durable materials, CEJN high pressure couplings hold up where other couplings fail.

FEATURE

One-hand-to-connect

The nipple is pushed into the coupling and is locked automatically. The locking sleeve does not need to be manually positioned.

Unique automatic safety function eliminates accidental disconnection

Turn the locking sleeve 30° and then pull backwards to release. The Flat-Face design ensures non-drip



Thread	Thread Type	Flush-Face Coupler	
		Female Part Number	Male (Nipple) Part Number
1/4 BSPT	FEMALE	 10-116-1219	 10-115-6202
1/4 NPT	FEMALE	 10-116-1419	 10-115-6402
3/8 NPT	FEMALE	 10-116-1429	 10-115-6404
1/4 BSPP	MALE PARALLEL	 10-116-1269**	 10-115-6212**
3/8 BSPT	MALE TAPERED	 10-116-1279	 10-115-6154
3/8 NPT	MALE	 10-116-1479	 10-115-6454
1/4 NPT	MALE	 10-116-1469	 10-115-6452

Aluminium Dust Caps

10-115-4101



SUITS ALL THE ABOVE NIPPLES

10-115-4102






SUITS ALL THE ABOVE NIPPLES
WITH PRESSURE ELIMINATOR

10-115-4100



SUITS ALL THE ABOVE COUPLERS

**NOTE: USE WITH 19-950-0083 RUBBER/METAL SEAL

Thread	Type	Screw Type Coupler	
		Female	Male
3/8 NPT	MALE	3050-3 	3010-3 
DUST CAP TO SUIT SCREW TYPE COUPLERS		3005-3	3009-3 



Model No.	Brand	Type	(Size - Id (Mm))		Od (mm)	Working Pressure (Bar)	Working Pressure (Psi)	Temp Range	Weight
HPS-06“R”	Durapac	RED	¼	6.6	12.7	700	10,000	-40° to 100°	180g/m
HPS-06“B”	Durapac	BLACK	¼	6.6	12.7	700	10,000	-40° to 100°	180g/m
HPS-06“T”	Durapac Twin	RED & BLACK	¼	6.0	12.7	700	10,000	-40° to 100°	180g/m
Non Conductive “Tested To 75,000 Volts Per 300mm”									
170202	KKT 3m	ORANGE	1/8	4	9.6	850	12,325	-40° to 100°	60gm
170205	KKT 5m	ORANGE	1/8	4	9.6	850	12,325	-40° to 100°	60gm
B098	NRP Twin	ORANGE	3/8	10	19	155	2250	-40° to 93°	600a/m

MODEL NO. RHX-95B

The RHX-95B is a ratchet mechanical crimper for cable lugs 10-95mm² and 25mm² ABC.

WEIGHT 1.5kg

LENGTH 272mm

ITEMS INCLUDED

- 1 x Die Set 25mm² ABC – 14.0mm A/F
- 1 x Die Set 35mm² CU – 9.2mm A/F
- 1 x Die Set 50mm² CU – 10.4mm A/F
- 1 x Die Set 70mm² CU – 11.5mm A/F
- 1 x Moulded Plastic Carry Case



MODEL NO. K2

- Ratchet style
- For tubular cable lugs and connectors
- Indent crimping

RANGE 0.75-16 mm²

OVERALL LENGTH 325 mm

WEIGHT 0.6 kg



HAND CRIMPERS

HEXAGONAL COPPER LUG HAND CRIMPER

Dies are self contained and rotate within the Tool Head, ensuring dies can not be misplaced.

POWAQUIP



KK05AU

6-50sqmm

KK06AU

6-120sqmm

KK07AU

10-70sqmm

MODEL NO. KK05AU

CRIMP RANGE 6, 10, 16, 25, 35 & 50sqmm

WEIGHT 1.35KG

OVER ALL LENGTH 400mm



MODEL NO. KK06AU

CRIMP RANGE 6, 10, 16, 25, 35, 50, 70, 95 & 120sqmm

WEIGHT 3.75KG

OVER ALL LENGTH 665mm

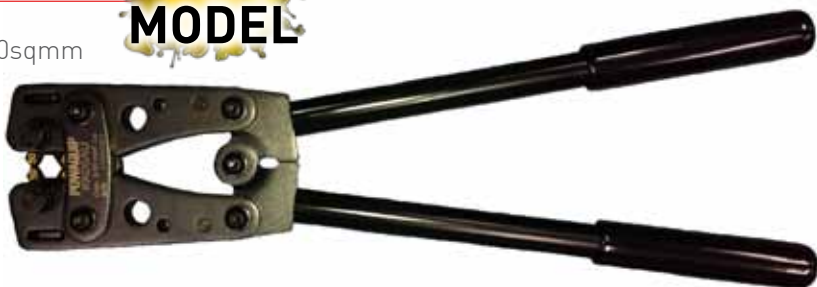


MODEL NO. KK07AU

CRIMP RANGE 10, 16, 25, 35, 50 & 70sqmm

WEIGHT 2.35KG

OVER ALL LENGTH 525mm



NOTES

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B. CABLE CUTTING

B1 – B42

BATTERY CUTTERS – IZUMI	B1-B8
BATTERY MULTI TOOL – IZUMI	B9-B10
BATTERY TOOL ACCESSORIES – IZUMI	B11-13
BATTERY CUTTER MINI - IZUMI	B14
DIE-CUTTING 12T	B15
BATTERY CABLE TRAY CUTTER – GREENLEE	B16-B17
COMPACT PUMP-BATTERY 700BAR – INTERCABLE	B18
BATTERY PUMP (KKT) 850BAR	B19
BATTERY PUMP ACCESSORIES (KKT) 850BAR	B20
REMOTE CUTTING HEADS (KKT) 850BAR	B21
REMOTE CUTTING HEAD – DAIA	B22
SAFETY CUTTING SYSTEM-INFRARED REMOTE CONTROLLED	B23
REMOTE CUTTING HEAD – IZUMI	B24-B26
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HAND CUTTER – GREENLEE	B32
RATCHET CUTTER FOR ACSR & GUY WIRE – GREENLEE	B33
HEAVY-DUTY CUTTER – GREENLEE	B34
RATCHET ACSR CABLE CUTTER – JENNY	B35
HAND CUTTER AL & CU & RATCHET CUTTER	B36
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WIRE ROPE CUTTER - SENYO	B40
BATTERY HYDRAULIC SWAGING TOOL - ARM	B40
BOLT CUTTER – ARM	B41
WIRE ROPE CABLE CUTTER & SWAGERS – ARM	B42

BATTERY CUTTER

IZUMI



WEIGHT

5.0kg Including BP-80 Battery

CAPACITY

24mm CU/AL/ACSR
20mm Guy Wire
20mm Soft Steel Bar
18mm Wire Rope
16mm ReBar

FORCE

84kN

SPECIFICATIONS

Ram stroke	24mm
Motor	14.4 VDC
Reservoir capacity	100cc
Output force	84 kN
Size	316 (l) x 263 x (h) 70 (w) mm
Weight	5.0kg with BP-80 Battery

Cuts steel materials as well as cables

FEATURES

The REC-S524 was designed to cut the toughest steel used in construction.

With the pull of the trigger, you can cut ACSR cables up to 24mm, and guy wires to 20mm.

The specially designed flip-top latch and rotating head provide exceptional ease of use and manoeuvrability.

The REC-S524 has an overload bypass which will kick out when tool reaches 84kN of output.

MODEL No. REC-S524



DETAILS

- LED indicates when battery capacity becomes low
- Well balanced & compact design
- New rapid advance system switch
- Right or left handed operation
- Quality backed by ISO9001

Material	Cutting capacity (mm)	Approx. number of cuts BP-80
Wire rope	6 x 7	18
	6 x 12	24
	6 x 19	24
Soft steel bar	20	95
Rebar	16	120
Cu strands	24	120
Al strands	24	150
ACSR	24	142
Guy wire	1 x 7	20
	1 x 9	20

ORDERING INFORMATION

See Page B14 for Battery and Charger Details

PLEASE NOTE: Add **(BB)** To The Model Number Suffix For **Lithium-Ion Batteries**

e.g. **REC-S524(BB)** Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-S524

Includes: Cutter with Carry Case
 Shoulder strap only
 (No Battery or Charger)

MODEL No. REC-S540



SPECIFICATIONS

Ram stroke	40 mm
Motor	14.4 VDC
Reservoir capacity	135cc
Output force	68 kN
Size	442 (l) x 351 (h) x 78 (w) mm
Weight	6.4kg Including BP-80 Battery

Cuts steel materials as well as cables.

FEATURES

The REC-S540 was designed to cut the ACSR cables used in transmission line construction work. It is now equipped with rapid ram advance mechanism for faster operation.

With the pull of the trigger, you can cut ACSR cables up to 38mm, guy wires to 20mm, and wire ropes to 22mm.

The rotating head provides exceptional ease of use and manoeuvrability in tight working areas.

The lock pin type head allows the cutter head to open widely for easy insertion of cutting material.

The REC-S540 has an overload bypass which will kick out when tool reaches 68kN of output.

ORDERING INFORMATION

See Page B14 for Battery and Charger Details

PLEASE NOTE: Add (BB) To The Model Number Suffix For **Lithium-Ion Batteries**
e.g. **REC-S540(BB)** Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-S540

Includes: Cutter with Carry Case
Shoulder strap only
(No Battery or Charger)

IZUMI



WEIGHT

6.4KG Including BP-80 Battery

CAPACITY

40mm	CU/AL
38mm	ACSR
22mm	Wire Rope
20mm	Guy Wire
20mm	Soft Steel Bar
16mm	ReBar

FORCE

68kN

DETAILS

- LED indicates when battery capacity becomes low
- Well balanced & compact design
- New rapid advance system switch
- Right or left handed operation
- Quality backed by ISO9001

Material	Cutting capacity (mm)	Approx. number of cuts BP-80
Wire rope	6 x 7	60
	6 x 12	82
	6 x 19	45
Soft steel bar	20	60
Rebar	16	60
Cu strands	40	42
Al strands	40	52
ACSR	38	45
Guy wire	1 x 7	120
	1 x 9	72

BATTERY CUTTER



WEIGHT

10kg Including BP-80 Battery

CAPACITY

54mm CU/AL/ACSR
30mm Wire Rope
20mm Guy Wire
22mm Soft Steel Bar
19mm ReBar

FORCE

120kN

SPECIFICATIONS

Ram stroke	54 mm
Motor	14.4VDC
Reservoir capacity	280 cc
Output force	120 kN
Size	490 (l) x 275 (h) x 90 (w) mm
Weight	10kg Including BP-80 Battery

Cuts steel materials as well as cables up to 54mm

FEATURES

The REC-S3550 is designed to cut the toughest steel used in construction

Portability and handling are made easier because the REC-S3550 is self-contained and compact. It features a new, larger handle opening with a rocker-type advance/retract switch located on top of the handle for 1-finger operation

Guillotine type cutting for less jamming than shear type cutting

180 degree rotating head allows for easy cutting positions

The lock pin type head allows the cutter head to open widely for easy insertion of cutting material

MODEL No. REC-S3550



DETAILS

Material Cutting capacity:	(mm)
Wire rope 6x7	25
Wire rope 6x12	30
Wire rope 6x19	30
Soft steel bar	22
Rebar	19
Cu strands	54
Al strands	54
ACSR	54
Guy wire 1x7	15
Guy wire 1x9	20

- LED indicates when battery capacity becomes low
- Well balanced & compact design
- Built-in foot base with finger indents
- New rapid advance system
- Larger handle opening with finger rocker-type switch
- Right or left handed operation
- Quality backed by ISO9001

ORDERING INFORMATION

See Page B14 for Battery and Charger Details

PLEASE NOTE: Add (BB) To The Model Number Suffix For **Lithium-Ion Batteries**
 e.g. REC-S3550(BB) Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-S3550

Includes: Cutter with Carry Case
 Shoulder strap only
 (No Battery or Charger)

MODEL No. REC-530Y



WEIGHT
5.0kg Including BP-80 Battery

CAPACITY
28mm AL/CU
19mm ACSR

FORCE
60kN

SPECIFICATIONS

Ram stroke	21mm
Motor	14.4 VDC
Reservoir capacity	100cc
Output force	63 kN
Size	372(l) x 265(h) x 70(w) mm
Weight	5.0kg Including BP-80 Battery

FEATURES

All cuts are clean with a minimal amount of cable distortion, which allows for easy connector installation on cables.

The head can be rotated 180 degrees for greater manoeuvrability in working quarters.

The keeper plate prevents jaws from spreading apart when cutting ACSR.

Cutting capacity Material (max)	Approx. number of cuts BP-80
19mm ACSR (with single strand steel wire)	276 of 19mm ACSR (Single Steel Strand)
28mm CU stranded	
28mm AL stranded	

DETAILS

- Battery operated scissors type cutter
- LED lights when battery capacity becomes low
- Light weight and slim design
- Pistol type design
- 14.4VDC powerful motor
- Right or left handed operation
- 180 degree swivel head
- Optional DC car/truck charger 12-24VDC
- Quality back by ISO9001

ORDERING INFORMATION

See Page B14 for Battery and Charger Details

PLEASE NOTE: Add (BB) To The Model Number Suffix For **Lithium-Ion Batteries**
e.g. **REC-S530Y(BB)** Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-530Y
Includes: Cutter with Carry Case
Shoulder strap only
(No Battery or Charger)

BATTERY CUTTER

IZUMI



WEIGHT

6.9kg Including BP-80 Battery

CAPACITY

85mm MAX (see details below)

RAM STROKE

43.5mm

BLADE OPENING

85mm

MODEL No. REC-585YC



SPECIFICATIONS

Ram stroke	43.5 mm
Motor	14.4 VDC
Reservoir capacity	135 cc
Output force	80 kN
Size	518 (l) x 340(h) x 87(w) mm
Weight	6.9kg Including BP-80 Battery

FEATURES

The REC-585YC scissors type cutter was designed to cut various cables used in the industry today. It is equipped with rapid ram advance mechanism for faster operation.

With a pull of the trigger, you can cut Cu and Al cables up to 85mm OD. This capacity will be reduced on XLPE and heavy duty copper stranded high density cables (Test cutting required for suitability).

The scissors type cutter head provides exceptional ease of use and manoeuvrability when making many cuts.

The REC-585YC has an overload bypass which will kick out when the tool reaches 80kN of output.

DETAILS

- LED indicates when battery capacity becomes low
- Well balanced & compact design
- New rapid advance system allows for faster operation under "NO LOAD"
- Right or left handed operation
- Optional DC car/truck charger 12-24VDC
- Quality backed by ISO9001

CUTTING CAPACITY UP TO 85mm O.D. HOWEVER ACTUAL CABLE TYPES WILL IMPACT ON MAXIMUM O.D.

ORDERING INFORMATION

See Page B14 for Battery and Charger Details

PLEASE NOTE: Add **(BB)** To The Model Number Suffix For **Lithium-Ion Batteries**
e.g. **REC-585YC(BB)** Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-585YC

Includes: Cutter with Carry Case
Shoulder strap only
(No Battery or Charger)

MODEL No. MODEL No. REC-Y33



IZUMI



WEIGHT

3.1kg Including BP-80 Battery

CAPACITY

33mm AL/CU
32mm Multi-core Vinyl
31mm Polyethylene
18.6mm ACSR
GAL steel wire (check with supplier)

SPECIFICATIONS

Drive unit 14.4V DC Motor
Size 105 (l) x 430 (h) x 115 (w) mm
Weight 3.1kg Including BP-80 Battery

FEATURES

The REC-Y33 was designed to cut ACSR cable and Gal steel wire

It cuts both non-ferrous cables and steel strands. Like the REC-50, cuts are clean with minimal cable distortion.

A circuit breaker for overloading protection prevents motor over-heating when attempting to cut material over its capacity.

DETAILS

- Well balanced & compact design
- One handed operation
- Quality backed by ISO9001
- Tested up 75kV
- Weather resistant housing

Due to material composition the capacities are to be used as a guide. Actual capacity may vary due to overload circuit breaker

ORDERING INFORMATION

See Page B14 for Battery and Charger Details

PLEASE NOTE: Add **(BB)** To The Model Number Suffix For **Lithium-Ion Batteries**
 e.g. **REC-Y33(BB)** Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-Y33

Includes: Cutter with Carry Case
 Shoulder strap only
 (No Battery or Charger)

BATTERY CUTTER

IZUMI



WEIGHT

2.759kg Including BP-80 Battery

BLADE OPENING

50mm

Up to 50mm O.D (non-ferrous cables)

21 mm Hard Copper

MODEL No. REC-50M



SPECIFICATIONS

Drive unit	14.4V DC Motor
Size	105 (l) x 375 (h) x 115 (w) mm
Weight	2.75kg Including BP-80 Battery

FEATURES

The REC-50M was specifically designed for cutting the toughest copper and aluminium cables in a limited amount of space. Cuts are clean with minimal cable distortion and comfortably fits into a gloved hand. Repetitive ratcheting movement is entirely eliminated.

It is a heavy duty cable cutter for nonferrous cables up to 50 mm O.D..

A Powerful gear reduction motor pulls a movable blade through the toughest of copper cables. It is equipped with a circuit breaker for overloading protection.

DETAILS

- Well balanced & compact design
- One handed operation
- Quality backed by ISO9001
- Tested up 75kV
- Weather resistant housing

CUTTING CAPACITY UP TO 50mm O.D.

HOWEVER ACTUAL CABLE TYPES WILL IMPACT ON MAXIMUM O.D. (check with supplier)

ORDERING INFORMATION

See Page B14 for Battery and Charger Details

PLEASE NOTE: Add **(BB)** To The Model Number Suffix For **Lithium-Ion Batteries**

e.g. **REC-50M(BB)** Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-50M

Includes: Cutter with Carry Case
Shoulder strap only
(No Battery or Charger)

MODEL No. REC-54M



WEIGHT
3.1kg Including BP-80 Battery

CAPACITY

54mm	Comm. Cable
47mm	Multi-core Vinyl
31mm	Polyethylene
31mm	AL
21mm	CU
18mm	ACSR (Cherry)

SPECIFICATIONS

Drive unit	14,4V DC Motor
Size	105 (l) x 410 (h) x 115 (w) mm
Blade Opening	54mm
Weight	3.1kg Including BP-80 Battery

FEATURES

The REC-54M was designed to cut overhead AL & CU Conductor and up to Cherry ACSR.

It cuts both nonferrous cables and steel strands. Like the REC-50M, cuts are clean with minimal cable distortion.

A circuit breaker for overloading protection prevents motor overheating when attempting to cut the material over its capacity.

“Fitted with new High Torque Motor”

“Notched Blade for ACSR”

DETAILS

- Well balanced & compact design
- One handed operation
- Quality backed by ISO9001
- Tested up to 75kV
- Weather resistant housing

CUTTING CAPACITY UP TO 54mm O.D.

HOWEVER ACTUAL CABLE TYPES WILL IMPACT ON MAXIMUM O.D. (check with supplier)

ORDERING INFORMATION

See Page B14 for Battery and Charger Details

PLEASE NOTE: Add (BB) To The Model Number Suffix For **Lithium-Ion Batteries**

e.g. **REC-54M(BB)** Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: REC-54M

Includes: Cutter with Carry Case
Shoulder strap only
(No Battery or Charger)

BATTERY MULTI TOOL 12T

MODEL NO. REC-5200MX

fitted with 200AT-410 12 Tonne Crimp Head

PULL PIN TO OPEN
HINGED HEAD



SPECIFICATIONS

Motor	14.4 VDC
Reservoir capacity	100 cc
Force at die face	127 kN
Size	356 (L) x 326 (H) x 70 (W) mm
WEIGHT	5.8kg with BP-80 Battery (without crimp head)

Crimp Head Attachment

Accepts existing 12 ton U-type dies

Maximum Capacity 300mm² AL & 400mm² CU

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. REC-5200MX (BB)

Includes: Battery Tool, Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

(INTERCHANGEABLE HEADS NOT INCLUDED)



IZUMI

See Page B14 for Battery and Charger Details

MODEL NO. 200AT-50YC Cable Cutter attachment to suit REC – 5200MX

Cutting capacity: up to 50mm OD cable
(including insulation)
Cuts nonferrous cables only.
Approximately 50 cuts BP-80

Weight: 1.0kg

MODEL NO. 200AT-410 12Tonne Crimp Head attachment to suit REC-5200MX

Opening between Die faces 17mm

Accepts existing 12 ton U-type dies

See pages A17-A18 for 12T Dies

Maximum Capacity 300mm² AL CU

Weight 2.4kg

MODEL NO. 200AT-AP18 Angle Steel Puncher attachment to suit REC – 5200MX

Punching capacity	Supplied with 3 sets of Punch Dies 10.5, 13.5 & 17.5 mm Diameter for 6mm thick steel
Size	186 x 130 x 67 mm
Weight	3.8 kg
Approximately 100 holes BP-80	

MODEL NO. 200AT-S16 Re-bar and Guy Strand Cutter attachment to suit REC – 5200MX

Cutting capacity:	Number of cuts/charge (BP-80)
16mm rebar	120
16mm soft steel bar	120
13mm stainless steel bar	105
16mm Guy Strand	105

MODEL No. 200AT-13WT Threaded rod cutter attachment to suit REC – 5200MX

Cutting capacity:	Number of cuts/charge (BP-80)
M10 or 3/8BSW Steel Threaded Rod	105
Stainless Steel	52
M12 or 1/2 BSW Steel Threaded Rod	82
Stainless	42

Includes a 13WT-07 M12 Blade Set
 OPTIONAL BLADE SETS
 13WT-06 M10, 13WT-02 3/8 BSW, 13WT-05 1/2 BSW

MODEL NO. 200AT-9PD Knock out Puncher attachment to suit REC-5200MX

Punching capacity	up to 63.5mm Stainless Steel and (115.5mm) diameter hole on 3.2mm thickness Mild Steel.
--------------------------	---

Approximately 42 Holes BP-80

DETAILS

- Punch & die, Draw Studs & Spacer Collars are the same as those used for SH-10.
- 200AT-9PD comes with Draw Studs & Spacer Collars.

FOR STAINLES STEEL, MILD STEEL, BRASS, ALUMINIUM ETC TO 3.2MM THICK

BATTERY TOOL ACCESORIES

MODEL NO. 79300060 ADAPTOR 230V FOR 14.4V BATTERY TOOLS



“Suits 14.4V IZUMI battery Tools”

Including: Crimpers, Cutters, Punchers and Impact Wrench



SPECIFICATIONS

Model Number	79300060
Input Voltage	230V / 50Hz
Output Voltage	14.4V 5A – 60A
Power Consumption (W)	70W – 800
Cable Length	3m, water spray resistant.
Temperature Range (c°)	10 – 40 Ambient
Weight (kg)	1
Dimensions (excluding cable) (mm)	125 x 70 x 120

DID YOU KNOW?

Allows IZUMI Battery tools to be used with 230V mains power.





MODEL No. BP-80 BATTERY

FEATURES

SUITS ALL IZUMI BATTERY TOOLS

- High Capacity 3.0Ah Battery Pack
- Lightweight
- Impact resistant Housing
- Minimally affected by high Temperatures
- Minimal Self Discharge
- Longer run times, compared to NiCad
- No memory effect



MODEL No. CH-90 CHARGER

FEATURES

CHARGES ALL IZUMI BATTERIES

- Able to Charge all Izumi Batteries (Li-Ion, Ni-MH & Ni-CAD)
- Charger has conditioning feature to accommodate memory effect
- Top-off & Maintenance trickle charge for NiCad Batteries
- Monitors battery temperature & Battery Voltage for correct Charging and battery faults



**240V BATTERY CHARGER ADAPTOR
MODEL No. CH-ACC-A**



**12V BATTERY CHARGER ADAPTOR
MODEL No. CH-DCC**



Model No	Components	Voltage/Source	Charge Time	Wt
CH-90DCC-A	1 x CH-90 Base 1 x CH-DCC Charge Lead DC 1 x CH-ACC-A Charge Lead AC	240VAC/12VDC	60min	975g
BP-80 UPGRADE PACK	1 x CH-90 Base 1 x CH-DCC Charge Lead DC 1 x CH-ACC-A Charge Lead AC 2 x BP-80 Li-Ion Batteries (14.4VDC)	240VAC/12VDC	60min	2115g
Model No	Description	Voltage/Source	Wt	
BP-80	Battery Lithium Ion	14.4VDC	570g	
CH-90	Charging Base Only	240VAC/12VDC	225g	
CH-DCC	Charge Lead 12VDC	12VDC	250g	
CH-ACC-A	Charge Lead 240VAC	240VAC	500g	



IMPROVING BATTERY LIFE

(For Older Style BP-70MH + BP-70E)

Izumi batteries should regularly be cycle refreshed. This is certainly required if your battery is not quite performing as well as it used to.

You can use the refresh/condition button on most Izumi chargers with your Izumi batteries. This process takes approximately 8 hours to complete and will improve the longevity of batteries, if the battery has not already started degrading.

BATTERY TOOL ACCESORIES

B CABLE CUTTING



MODEL No. CH35EMC

Suitable for NI-CAD & NI-MH Batteries Only



MODEL No. CH70DCH

Suitable for NI-CAD & NI-MH Batteries Only



MODEL No. BP-70MH

Nickel-Metal Hydride Standard Battery

BATTERY CHARGER AND BATTERY PACK SPECIFICATIONS

Model No.	Voltage	Battery	Charging Time (min)	Capacity (Ah)	Weight (g)
CH-35EMC	240V	BP-70MH Charger	40		900
CH-70DCH	12VDC	BP-70MH Charger	100		660
BP-70MH	14.4V	Nickel-metal hydride Battery		3.0	850

IMPROVING BATTERY LIFE

(For Older Style BP-70MH + BP-70E – Ni-CAD/Ni-MH)

Izumi batteries should regularly be refreshed. This is certainly required if your battery is not quite performing as well as it used to.

You can use the refresh button located on CH35EMC with your Izumi batteries. This process takes approximately 8 hours to complete and will improve the longevity of batteries, if the battery has not already started degrading.



MODEL No. SLS-20



IZUMI



WEIGHT

2.7kg Including BP-80 Battery

BLADE OPENING

Maximum Opening 22mm OD

- Up to 20mm OD ACSR, Al & Cu
- Up to 20mm OD Wire Rope (6x12 & 6x19)
- Up to 16mm OD Wire Rope (6x7)
- Up to 16mm OD Soft Steel Bar/Guy Wire
- Up to 13mm OD ReBar (280MPa)

SPECIFICATIONS

Drive unit	14.4V DC Motor
Size	483 (L)
Weight	2.75kg Including BP-80 Battery

FEATURES

The SL-S20 was designed to cut the toughest steel used in construction today. It can replace an entire tool kit, including several sizes of conventional bolt cutters, hacksaws, acetylene torches and cable cutters.

With the pull of a trigger, you can cut ACSR cables up to 17.5mm OD, standard guy wires to 9.5mm OD and ground rods to 12.7mm OD. The specially designed flip-top latch and rotating head provide exceptional ease of use and maneuverability in tight working quarters.

DETAILS

- Flip-Top latching head
- Tested up to 75kV
- One handed operation
- Rotational head
- Rapid advance
- LED lights on both sides of tool

CUTTING CAPACITY UP TO 20mm OD

HOWEVER ACTUAL CABLE TYPES WILL IMPACT ON MAXIMUM O.D. (check with us)

ORDERING INFORMATION

See Page B12 for Battery and Charger Details

PLEASE NOTE: Add (BB) To The Model Number Suffix For **Lithium-Ion Batteries** e.g. **SLS-20(BB)** Includes: Shoulder strap, Carrying case, 2 Batteries (BP-80) and 12VDC-240VAC Charger (CH-90DCC-A)

MODEL NO: SLS-20

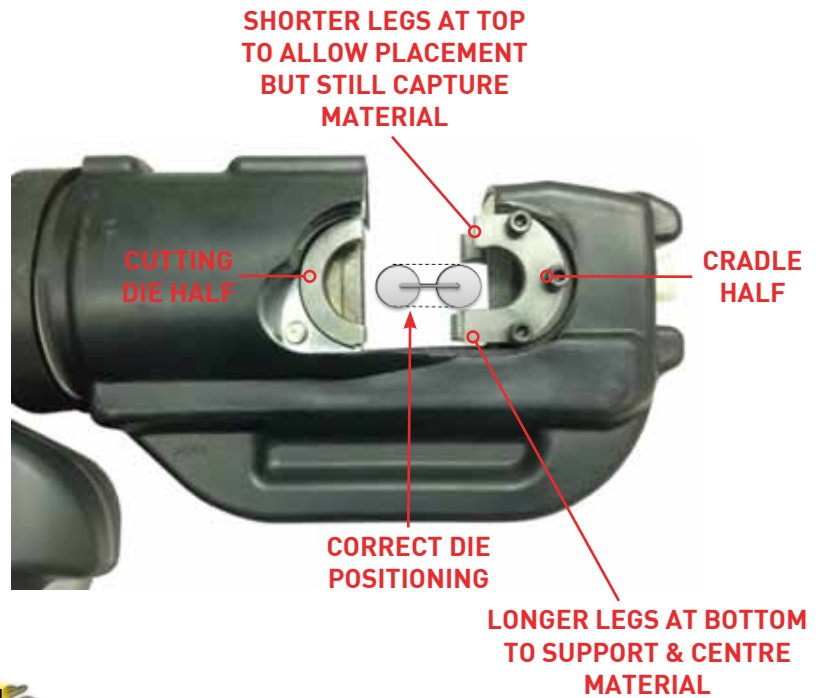
Includes: Cutter with Carry Case
Shoulder strap only
(No Battery or Charger)

CUTTING DIE 12T

MODEL No. 12T-CUTTING DIE



**AUSTRALIAN
DESIGNED AND
MANUFACTURED**



CAN BE USED IN

- 12 Ton Hand Hydraulic Crimping Tools
- 12 Ton Battery Powered Crimpers
- Remote Head Hydraulic Crimpers

BENEFITS

- Less costly than dedicated Cutting Tools
- Simple to install in Crimping Tools
- Require no adjustment for cutting different materials
- Heavy duty design with 6 high tensile cap screws.

CAN CUT THE FOLLOWING MATERIALS

Guy Wire/Guy Strand/EHS Guy Wire	16mm (5/8")
ACSR/AL/CU	17.5mm
Earth Rod & Soft Steel Bolts	16mm (5/8")



BATTERY CABLE TRAY CUTTER

MODEL No. 52136

**CUTS IN
4.5SEC**



INCLUDED ITEMS**



WIEGHT

2.0kg Including Battery

OVERALL LENGTH

365mm

CAPACITY

12.7mm Common Bolt

12.7mm Threaded Rod

9.52mm Steel Rod

7.93mm GuyStrand

5.19mm One-Time disposable lock

SPECIFICATIONS

Overall Length	365mm
Battery	18V Lithium-Ion
Battery Charge Time	1 hour
Weight	2.0kg Including Battery

FEATURES

- Cuts in 4.5sec
- Battery Powered Bolt Cutter
- Designed to cut one-time disposable locks, shipping container seals and small diameter bolts
- Light weight in-line style tool is easy to manoeuvre.
- Cutter head rotates 350° for use in tight locations.
- Ram retracts automatically when a cut is complete.
- Ram can be retracted at any point in the cutting cycle.
- Included tool, two batteries, charger and moulded carrying case.
- 12VDC/230VAC one hour battery charger.

KITS**

Model No.	Description
52135	Battery Bolt Cutter and 2 Batteries with 12VDC Charger & Carry Case
52136	Battery Bolt Cutter and 2 Batteries with 220VAC Charger & Carry Case

CUTTING CAPACITY

Material	Diameter (mm)
Common Bolt	12.7
Grade 5 Bolt	11.11
Grade 8 Bolt	7.94
Threaded Rod	12.7
One-Time Disposable Lock	5.19 Alumoweld
Boa Lock	BL-9
Grade 40 Rebar	9.52
Steel Rod	9.52 (12.7 using 2 cycles)
Ground Rod	9.52 (12.7 using 2 cycles)
Cu/Al Cable	6.54
ACSR	12.75
Guy Strand	7.93 (9.52 using 2 cycles)
EHS Guy Strand	7.93
Aircraft cable	6.35

REPLACEMENT PARTS

Model No.	Upc No.	Description
25752		Carry Case
52177		18V Lithium-Ion Battery
56288		Cutter Blade Kit
52179		12V Charger
52180		230V Charger

BATTERY CABLE TRAY CUTTER



WEIGHT

1.5kg Including Battery

OVERALL LENGTH

308mm

CAPACITY

7.93mm Cable Tray

6.35mm Cable Tray SS

7.93mm Threaded Rods inc SS

7.93mm Steel Bolts (Gr 2)

4.76mm Steel Bolts (Gr 8)

SPECIFICATIONS

Overall Length	308mm
Battery	18V Lithium-Ion Battery
Battery Charge Time	45 Minutes
Weight	1.3kg

FEATURES

- Battery Powered Cable Tray Cutter
- Cuts cables tray wires in 2 seconds
- Cutting head is small and rotates 330° to easily get into the right cutting position.
- Tool automatically retracts when a cut is complete, but it can be retracted in mid-stroke if necessary.
- Make flush cuts without burrs.
- Comes complete with 2 batteries, charger, and carrying case.
- Available with 12VDC or 230VAC battery charger.

MODEL NO. 52141



INCLUDED ITEMS**

CUTTING CAPACITY

Material	Diameter				
(mm)	1.58	3.17	4.76	6.35	7.93
Cable Tray	✓	✓	✓	✓	✓
Cable Tray, SS	✓	✓	✓	✓	
Threaded Rods	✓	✓	✓	✓	✓
Threaded Rods, SS	✓	✓	✓	✓	✓
Steel Bolts (Grade 2)	✓	✓	✓	✓	✓
Steel Bolts (Grade 8)	✓	✓	✓		

KITS**

Model No.	Description
52140	Battery Cable Tray Cutter and 2 Batteries with 12VDC Charger
52141	Battery Cable Tray Cutter and 2 Batteries with 230VAC Charger

REPLACEMENT PARTS

Model No.	Description
52177	18V Lithium-Ion Battery
25752	Carrying Case
19987	Blade Set
52179	12V Charger
52180	230V Charger

COMPACT PUMP - BATTERY 700BAR

MODEL No. CP700-EC & CP700

intercable

MODEL No. CP700-EC(BB)
(basic unit) without
digital display



MODEL No. CP700EC(BB)
MODEL No. CP700(BB)
Pump, Hose (1.5m Non-Conductive c/w
CEJN M&F 115 Series Couplings & Al Dust
Caps), Two Lithium-Ion Batteries, 240VAC
Charger, Shoulder Strap, Remote Control
(1.5m L) with Bag.



MODEL No. CP700(BB)
with digital display

SPECIFICATIONS

Tank Capacity (mL)	800
Usable Oil (mL)	750
Operating pressure	700 bar (70MPa)
Power	Adjustable up to 1.2kW
Battery voltage	28.7VDC
Battery capacity	5.2Ah
Battery Charge Time (min)	50
Battery Life (# of charges)	1,000 (Approx)
Crimps/Cuts per Battery	Approx. 125 @ 150mm2Cu
Range of use	-20/+55°C continuous operation
Measurements	205 x 290 x 190
Weight (Approx.)	4.6kg (with battery)

ACCESSORIES & REPLACEMENTS

Model No	Description
NG3	Adaptor to Operate Pump off Mains Power 240VAC (Accessory)
FS02	Switch, Foot Operated for CP700/EC (Accessory)
RA11	Battery, Lithium-Ion 18V 3.0Ah (Spare)
LG8	Charger, 240VAC for RA11 (Spare)
SCH1.5	Hose, Non-Conductive CEJN M&F Couplings & Dust Caps 1.5m Long (Spare)
CP-F	Control, Remote Corded for CP700/EC (Spare)
CP-USB	Cable, USB for CP700/EC (Spare)
TTCP01	Bag, Carry for CP700/EC units and accessories (Spare)
TG3	Strap, Shoulder for CP700/EC (Spare)

DETAILS

- Adjustable Retraction Mode to increase battery life
- Light, compact and robust structure
- Ergonomic design for right or left hand operation
- Remote control lead (1.5 m)
- Possibility to carry the special transportation bag with additional (optional) pockets, by a shoulder strap or attached to a belt (optional)
- Possibility to attach the remote control unit to the apparatus, belt or shoulder strap with a clamp support, on buttons (Ø 18.7 mm) or with a magnet on flat and rounded surfaces
- Fitted with Cejn high-flow snap coupler
- Anti-scratch and shock resistant display protection
- Rapid return of apparatus, thanks to high return capacity
- Electronic sensor pressure control
- High yield Lithium-Ion battery
- Powerful (700Bar - LP=1.2L/min & HP=0.2L/min)

BATTERY PUMP (KKT) 850BAR

B CABLE CUTTING

KKT SINGLE & DOUBLE ACTING HYDRAULIC BATTERY PUMPS



MODEL NO. 2050DA
Single Acting Battery Pump

C/W Cejn 10-116 series female Flush Face coupler & Aluminium dust cap



MODEL NO. 2050DACT
Double Acting Battery Pump

C/W Cejn 10-116 series male & female Flush Face couplers & Aluminium dust caps.
Must use with optional 4 way Directional Control Valve, externally Mounted

UNIVERSAL HYDRAULIC PUMP

- For use with Internally Fitted battery or mains operation 240V/50Hz up to 850 Bar
- Automatic recognition of Pressure demand with cut off function when required pressure is reached (20 to 850 Bar). Can be used to operate tool other than KKT, please contact your nearest SF branch for details.
- Maximum Output Oil Pressure can be Factory Pre-set to suit Customers requirements, e.g. 700BAR
- Adjustable Power up to 1.2KW

FASTEST BATTERY PUMP ON THE MARKET

- Inching function for interruptible tool feed
- Energy saving mode – Pump switches off 10 minutes after last cycle or at low battery load
- Automatic cut off when no load after working cycle (i.e punching tools in order to protect dies and save energy)
- Rugged plastic housing – (control buttons, coupling devices and display are well protected)
- Li-ion Battery 28.7VDC 5.2Ah
- Integrated charger operated off 230VAC/50Hz
- The capacity of the battery is sufficient for one working day
- Can be used continuously with main power without damage to the battery or pump
- Magnetic Holding Strip on back of Remote Hand Switch for convenient positioning

ACCESSORIES

- “FOOTSWITCH” Also available
Model No. 2050DAFOOTSWITCH
- “HOSE” 3m (Orange) Non Conductive with coupling M & F **Model No. 170202**
- “HOSE” 5m (Orange) Non Conductive with coupling M & F **Model No. 170205**
- “CARRY BAG” Fat Max bag (for pump hose and small tool) **Model No. 1.93.952**

TECHNICAL DATA

Dimension (mm)	220 x 165 x 260 (including handle)
Weight (kg)	7.65 (8.45 with non-conductive hose and coupling)
Flow (L/min)	Automatic adaptor up to 1



230VAC Lead & Pendant Control Included as Standard

**BATTERY PUMP ACCESSORIES
(KKT) 850BAR**



KKT HYDRAULIC PUMP ACCESSORIES - 850 BAR



Accessories suitable for Model Numbers 2050DACT Double Acting and 2050DA Single Acting Pumps

B CABLE CUTTING

ACCESSORIES



Model No. 2050DAFOOTSWITCH
"FOOTSWITCH"



Model No. 1.93.952
"CARRY BAG" Fat Max bag (for pump hose and small tool)



Model No. 170205
"HOSE" 5m (Orange)
850bar Working Pressure Non Conductive with Cejn M&F 10-116 series Couplings & Aluminium dust caps



Model No. 170202
"HOSE" 3m (Orange)
850bar Working Pressure Non Conductive with Cjen M&F 10-116 series Couplings & Aluminium dust caps

Fittings Included On Hose	Description
101161219	COUPLING ¼" BSPF
101156202	NIPPLE ¼" BSPF
101154100	ALUMINIUM DUST CAP (coupler)
101154102	ALUMINIUM DUST CAP W/PRESSURE ELIMINATOR

REMOTE CUTTING HEADS (KKT) 850BAR

B CABLE CUTTING

HYDRAULIC CUTTING HEADS 850 BAR



SPECIAL FEATURE

AIR SPRING TECHNOLOGY



Cutting Heads suitable for
Single Acting Pump:
Model Numbers 2050DA

Cutting Heads are fitted
with a Cjen 10-115-6212
Male Nipple, 19-950-0083
Seal and 10-115-4101
Aluminium Dust Cap



SPECIFICATIONS

Model No.	SL45HS
WEIGHT (kg)	3.3 (including couplers)
Cutting Force At 850Bar (kN)	82
Max. Cable Diameter (mm)	45
Cable Type	ACSR/Al/Cu
Dimensions (mm)	104 x 50 x 303

Model No.	SL95HS
WEIGHT (kg)	4.4 (including couplers)
Cutting Force At 850Bar (kN)	82
Max. Cable Diameter (mm)	95
Cable Type	SWA*/Al/Cu
Dimensions (mm)	150 x 50 x 432

Model No.	SL120HS
WEIGHT (kg)	5.2 (including couplers)
Cutting Force At 850Bar (kN)	82
Max. Cable Diameter (mm)	120
Cable Type	Al/Cu
Dimensions (mm)	174 x 50 x 479

* SWA cuts some steel wired Armour Please consult your



HYDRAULIC CABLE CUTTERS



MODEL No. CR-100



MODEL No. CR-75

Model No.	Description
CR-75	75mm Remote Head Cable Cutter (with case)
CR-100	100mm Remote Head Cable Cutter (with case)
CR-150C	150mm Remote Head Cable Cutter (without case), Powerful 20T Hydraulic Cylinder with Spring Return Piston, Hinged Opening Cutter Blade, Secured by Pin, Two Wheels for easy relocation



MODEL No. CR-150C



MODEL No. CR-75/100/150
size comparison

Model No.	Wire Strand (mm) OD	Cable (mm) OD		Soft Round Bar (mm) OD		Output (Metric Tonnes)	Weight (Kgs)
	Bare Copper	Steel Wire Armoured	Ug Cable	Copper Bar	Aluminium Bar		
CR-75	41.6		75.0			5.0	4.6
CR-100	41.6	100.0	100.0			11.0	13.0
CR-150C	✓	150.0	150.0	✓	✓	21.0	47.0

REMOTE SAFETY CUTTING SYSTEM



CR-100CE



CUTTING HEAD

FORCE

107kN

CAPACITY

100mm Blade Opening

PUMP

PRESSURE

700Bar @ 0.17L/min

RESERVOIR

1.2L

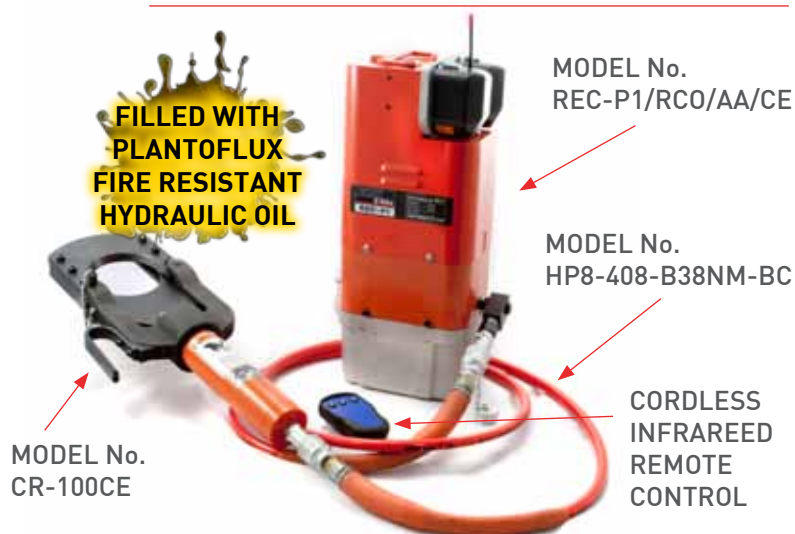
HOSE LENGTH

8m

POWER SOURCE

14.4VDC

INFRARED REMOTE CONTROLLED SAFETY CUTTING SYSTEM



ITEMS SOLD SEPERATELY, REFER TABLE BELOW

Model No	Description
REC-P1/RC0/BB/CE	Remote Battery pump with 2 x BP-80 batteries, 2 x CH-90DCC-A chargers and Cejn male coupler half. Tagged & filled with Plantoflux fire resistant hydraulic oil shown in picture above
CR-100CE	Remote hydraulic cable cutter with Cejn male coupler half. Cuts up to 100mm diameter steel wire armour cable shown in picture above
HP8-408-B38NM-BC	8m high pressure non-conductive hose assembly with Cejn female coupler half each end. Tagged & filled with Plantoflux fire resistant hydraulic oil shown in picture above
CR100EK	Earthing Kit shown below

SPECIFICATIONS

For cutting/spiking of cables up to 100mmOD.

FEATURES

This cable cutting and spiking system proves dead cables and cuts them in one controlled operation using full cordless infrared remote control ensuring optimum operator safety.

The battery powered pump provided total system portability. The pump unit can be utilised to operate compression heads and other single acting tools. This system is proven reliable and accepted by power authorities and contractors Australia wide, with product service and spares support available Australia wide.

ACCESSORIES

A range of battery cutter, and charger options available, contact us for more information

CR100EK- Earthing Kit for DAIA #CR100 Remote Hydraulic Cutting Head



MODEL No. CR-100EK



EARTHING KIT CONTENTS

- 4 each of 1.5 metre braided copper flat palm earthing straps
- 1 each of 3.0 metre 70mm² Cu cable with heat shrink each end
- 2 each of 1.2 metre 70mm² Cu cables with heat shrink each end
- 4 each of earth clamps
- 3 each of 900mm long earth rods
- 1 each of earth rod driving head
- 3 each of roll springs
- 1 each of nylon carry bag



MODEL No. SP-20A



INCLUDED ITEMS
Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	44
Maximum Input Pressure (Bar)	700
Oil Volume Required (cc)	18
Size (mm)	240 (L)
Weight (kg)	2.3

Cuts steel materials as well as cables up to 20 mm

FEATURES

The SP-20A hydraulic cutter head cuts steel materials as well as cables up to 20mm and features fast cutting action with remote operation.

It can be operated by any hydraulic pump with rated oil pressure of 700 Bar. Blades are easily replaceable and flip-top latch for easy insertion of cutting material.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Wire rope 6 x 7	16
Wire rope 6 x 12	20
Wire rope 6 x 19	20
Soft steel bar	16
Rebar	13
Cu strands	20
Al strands	20
ACSR	21
Guy wire 1 x 7	15
Guy wire 1 x 19	16

MODEL NO. SP-24



INCLUDED ITEMS
Cutter & Carry bag

SPECIFICATIONS

Output Force (kN)	86kN
Maximum Input Pressure (Bar)	700
Oil Volume Required (cc)	33
Size (mm)	245 (L)
Weight (kg)	3.1

Cuts steel materials as well as cables up to 24 mm

FEATURES

The SP-24 hydraulic cutter head cuts steel materials as well as cables up to 24mmOD features fast cutting action with remote operation.

It can be operated by any hydraulic pump with rated oil pressure of 700 Bar. Blades are easily replaceable and head is flip-top latch for easy insertion of cutting material.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Wire rope 6 x 7	18
Wire rope 6 x 12	24
Wire rope 6 x 19	24
Soft steel bar	20
Rebar	16
Cu strands	24
Al strands	24
ACSR	24
Guy wire 1 x 7	20
Guy wire 1 x 19	20

MODEL No. SP-32



INCLUDED ITEMS
Cutter & Carry bag

SPECIFICATIONS

Output Force (kN)	250
Maximum Input Pressure (Bar)	700
Oil Volume Required (cc)	135
Size (mm)	300 (L)
Weight (kg)	9.9

Cuts steel materials as well as cables up to 32 mm

FEATURES

The SP-32 hydraulic cutter head cuts heavy duty steel materials up to 32 mm and features fast cutting action with remote operation.

It can be operated by any hydraulic pump with rated oil pressure of 700 Bar. Blades are easily replaceable and head is flip-top latch for easy insertion of cutting material.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Wire rope 6 x 7	32
Wire rope 6 x 12	32
Wire rope 6 x 19	32
Soft steel bar	25
Rebar	25
Cu strands	32
Al strands	32
ACSR	32
Guy wire 1 x 7	32
Guy wire 1 x 19	32

REMOTE CUTTING HEADS

MODEL NO. SP-40A



INCLUDED ITEMS
Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	68
Maximum Input Pressure (bar)	700
Oil Volume Required (cc)	50
Size (mm)	340 (L)
Weight (kg)	4.0

FEATURES

The SP-40A hydraulic cutter head cuts steel materials as well as cables up to 41mmOD and features fast cutting action with remote operation.

It can be operated by any hydraulic pump with rated oil pressure of 700 Bar. Blades are easily replaceable and have a lock pin type cutter head.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Wire rope 6 x 7	22
Wire rope 6 x 12	25
Wire rope 6 x 19	25
Soft steel bar	20
Rebar	16
Cu strands	41
Al strands	41
ACSR	38
Guy wire 1 x 7	15
Guy wire 1 x 19	20

MODEL NO. SP-55A



INCLUDED ITEMS
Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	118
Maximum Input Pressure (bar)	700
Oil Volume Required (cc)	120
Size (mm)	415 (L)
Weight (kg)	9.2

Cuts steel materials as well as cables up to 55 mm

FEATURES

The SP-55A hydraulic cutter head features fast cutting with remote operation. It can be operated by any hydraulic pump with rated oil pressure of 700 Bar.

The blades are easily replaceable and the head is a lock pin type cutter head.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Wire rope 6 x 7	25
Wire rope 6 x 12	30
Wire rope 6 x 19	30
Soft steel bar	22
Rebar	19
Cu strands	50
Al strands	50
ACSR	50
Guy wire 1 x 7	15
Guy wire 1 x 19	20

NOTE: See page B29 for hydraulic coupling configurations



MODEL NO. P-60



INCLUDED ITEMS

Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	79
Maximum Input Pressure (bar)	700
Oil Volume Required (cc)	71
Maximum Opening (mm)	60
Size (mm)	410 (L)
Weight (kg)	5.2

FEATURES

The P-60 portable hydraulic cutter head cuts Al/ Cu cables up to 60mmOD and features fast cutting action with remote operation.

Guillotine type cutting for less jamming than shear type cutting. It can be operated by any hydraulic pump with rated oil pressure of 700 Bar. The blades are easily replaceable and is a lock pin type cutter head.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Cu strands	60
Al strands	60
CCP cable	60
Wire rope 6 x7	N/A
Wire rope 6 x12	N/A
Wire rope 6 x 19	N/A
Soft steel bar	N/A
Rebar	N/A
ACSR	N/A
Guy wire 1 x7	N/A
Guy wire 1 x 19	N/A

MODEL NO. P-132



INCLUDED ITEMS

Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	95
Maximum Input Pressure (bar)	700
Oil Volume Required (cc)	220
Size (mm)	630 (L)
Weight (kg)	12.0

FEATURES

P-132 hydraulic cutter head cuts insulated cables up to 132mmOD. It cuts underground or armoured cables (depends on type).

It has fast cutting action with remote operation. Guillotine type cutting for less jamming than shear type cutting. 132mm jaw opening accepts larger size cables. The head can be operated by any hydraulic pump with rated oil pressure of 700 Bar. The blades are easily replaceable and the head is a lock pin type cutter head.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material*	mmOD
Cu strands	42
Al strands	46
Wire rope 6x7	N/A
Wire rope 6x12	N/A
Wire rope 6x19	N/A
Soft steel bar	N/A
Rebar	N/A
ACSR	N/A
Guy wire 1x7	N/A
Guy wire 1x19	N/A
Insulated	132mm

* Cuts some 'SWA' (Steel Wire Armoured) contact your nearest Soecialised Force branch.

NOTE: See page B29 for hydraulic coupling configurations

COUPLINGS & HOSES

"CEJN" HIGH PRESSURE COUPLINGS

A one-hand-to-connect, non-drip coupling with built-in safety function

The one-hand-to-connect Flat-Face couplings have been developed to reliably meet the rigorous demands of high pressure hydraulic applications. Engineered to exacting tolerances, using the most durable materials, CEJN high pressure couplings hold up where other couplings fail.

FEATURE















One-hand-to-connect

The nipple is pushed into the coupling and is locked automatically. The locking sleeve does not need to be manually positioned.

Unique automatic safety function eliminates accidental disconnection

Turn the locking sleeve 30° and then pull backwards to release. The Flat-Face design ensures non-drip



Thread	Thread Type	Flush-Face Coupler	
		Female Part Number	Male (Nipple) Part Number
1/4 BSPT	FEMALE	 10-116-1219	 10-115-6202
1/4 NPT	FEMALE	 10-116-1419	 10-115-6402
3/8 NPT	FEMALE	 10-116-1429	 10-115-6404
1/4 BSPP	MALE PARALLEL	 10-116-1269**	 10-115-6212**
3/8 BSPT	MALE TAPERED	 10-116-1279	 10-115-6154
3/8 NPT	MALE	 10-116-1479	 10-115-6454
1/4 NPT	MALE	 10-116-1469	 10-115-6452



Aluminium Dust Caps

10-115-4101



SUITS ALL THE ABOVE NIPPLES

10-115-4102







SUITS ALL THE ABOVE NIPPLES
WITH PRESSURE ELIMINATOR

10-115-4100



SUITS ALL THE ABOVE COUPLERS

**NOTE: USE WITH 19-950-0083 RUBBER/METAL SEAL

Thread	Type	Screw Type Coupler			
		Female		Male	
3/8 NPT	MALE	3050-3		3010-3	
DUST CAP TO SUIT SCREW TYPE COUPLERS		3005-3		3009-3	



Model No.	Brand	Type	(Size - Id (Mm))		Od (mm)	Working Pressure (Bar)	Working Pressure (Psi)	Temp Range	Weight
HPS-06“R”	Durapac	RED	¼	6.6	12.7	700	10,000	-40° to 100°	180g/m
HPS-06“B”	Durapac	BLACK	¼	6.6	12.7	700	10,000	-40° to 100°	180g/m
HPS-06“T”	Durapac Twin	RED & BLACK	¼	6.0	12.7	700	10,000	-40° to 100°	180g/m
Non Conductive “Tested To 75,000 Volts Per 300mm”									
170202	KKT 3m	ORANGE	1/8	4	9.6	850	12,325	-40° to 100°	60gm
170205	KKT 5m	ORANGE	1/8	4	9.6	850	12,325	-40° to 100°	60gm
B098	NRP Twin	ORANGE	3/8	10	19	155	2250	-40° to 93°	600a/m



MODEL NO. S-200



INCLUDED ITEMS
Cutter & Carry bag

SPECIFICATIONS

Output Force (kN)	66
Maximum Opening (mm)	22
Reservoir Capacity (cc)	60
Maximum Handle Load (N)	235
Pumping Cycles When No Load	39 times
Single Stage Pumping No Relief Valve	
Size (mm)	400 (L)
Weight (kg)	3

FEATURES

Light weight portable hydraulic cutter features new series, heavy duty improved design.

Guillotine type cutting jaw is less jamming then shear type cutting jaw. No set-up time is required, the blades are easily replaceable and 180 degree swivel and latch type head allows easy cutting position.

DETAILS

Cutting of piano wire is prohibited

Cutting Capacities	
Material	mmOD
Wire rope 6 x 7	16
Wire rope 6 x 12	20
Wire rope 6 x 19	20
Soft steel bar	16
Rebar	13
Cu strands	20
Al strands	20
ACSR	21
Guy wire 1 x 7	16
Guy wire 1 x 19	16

MODEL NO. S-240



INCLUDED ITEMS
Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	84
Maximum Opening (mm)	24
Reservoir Capacity (cc)	120
Maximum Handle Load (N)	226
Pumping Cycles When No Load	13 times
Two Stage Pumping-For Fast Approach No Relief Valve	
Size (mm)	475 (L)
Weight (kg)	4.9

FEATURES

Light weight portable hydraulic cutter cuts steel materials as well as cables up to 24mmOD and features two stage pumping for rapid blade advance.

The unit has a guillotine type cutting head for less jamming than shear type cutting heads. No set-up time is required and blades are easily replaceable. With a 180 degree swivel head and latch type head this allows easy cutting position and manoeuvrability.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Wire rope 6 x 7	18
Wire rope 6 x 12	24
Wire rope 6 x 19	24
Rebar	20
Reinforcing rod	16
Cu strands	24
Al strands	24
ACSR	24
Guy wire 1 x 7	20
Guy wire 1 x 19	20

HYDRAULIC HAND CUTTERS

MODEL NO. S-320



INCLUDED ITEMS
Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	194
Maximum Opening (mm)	35
Reservoir Capacity (cc)	202
Maximum Handle Load (N)	276
Pumping Cycles When No Load	20 times
Two Stage Pumping	
Size (mm)	580(L)
Weight (kg)	10.75
Maximum Blade Opening (mm)	35

FEATURES

Light weight portable hydraulic cutter cuts heavy steel materials up to 32 mm and features two stage pumping for rapid blade advance.

Safety relief valve for overload protection. Guillotine type cutting for less jamming than shear type cutting. No set-up time required and blades are easily replaceable. 180 degree swivel and latch type head allows easy cutting position.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Wire rope 6 x7	32
Wire rope 6 x12	32
Wire rope 6 x 19	32
Soft steel bar	25
Rebar	25
Cu strands	32
Al strands	32
ACSR	32
Guy wire 1 x7	32
Guy wire 1 x 19	32

MODEL NO. S-400



INCLUDED ITEMS
Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	55
Maximum Opening (mm)	42
Reservoir Capacity (cc)	120
Maximum Handle Load (N)	196
Pumping Cycles When No Load	17 times
Two Stage Pumping	
No Relief Valve	
Size (mm)	575 (L)
Weight (kg)	5.9

Cuts steel materials as well as cables up to 41 mm

FEATURES

Light weight portable hydraulic cutter cuts steel materials as well as cables up to 41mmOD and features two stage pumping for rapid blade advance.

A guillotine type cutting head for less jamming than shear type cutting. No set-up time is required and blades are easily replaceable. With a 180 degree swivel and lock pin type head, this allows for easy cutting position manoeuvrability.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Wire rope 6 x7	22
Wire rope 6 x12	25
Wire rope 6 x 19	25
Soft steel bar	20
Rebar	16
Cu strands	41
Al strands	41
ACSR	38
Guy wire 1 x7	15
Guy wire 1 x 19	20

HYDRAULIC HAND CUTTERS

MODEL NO. S-550



INCLUDED ITEMS
Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	124
Maximum Opening (mm)	54
Reservoir Capacity (cc)	202
Maximum Handle Load (N)	276
Pumping Cycles When No Load	25 times
Two Stage Pumping	
Size (mm)	625 (L)
Weight (kg)	9.3

Cuts steel materials as well as cables up to 54 mm

FEATURES

Light weight portable hydraulic cutter cuts steel materials as well as cables up to 54mmOD and features two stage pumping for rapid blade advance.

The unit has a safety relief valve for overload protection, guillotine type cutting for less jamming as opposed to shear type cutting and no set-up time required. The blades are easily replaceable and the head has 180 degree swivel. The lock pin type head allows easy cutting position manoeuvrability.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Wire rope 6 x7	25
Wire rope 6 x12	30
Wire rope 6 x 19	30
Soft steel bar	22
Rebar	20
Cu strands	54
Al strands	54
ACSR	54
Guy wire 1 x7	15
Guy wire 1 x 19	20

MODEL NO. 850



INCLUDED ITEMS
Cutter & Carry Bag

SPECIFICATIONS

Output Force (kN)	39
Maximum Opening (mm)	88
Reservoir Capacity (cc)	120
Maximum Handle Load (N)	196
Pumping Cycles When No Load	20 times
Two Stage Pumping	
No Relief Valve	
Size (mm)	710 (L)
Weight (kg)	8.05

Cuts cables up to 85mmOD, Cu/AL only

FEATURES

Light weight portable hydraulic cutter cuts cables up to 85mmOD and features two stage pumping for rapid blade advance and guillotine type cutting for less jamming than shear type cutting.

No set-up time is required and the blades are easily replaceable. With a 180 degree swivel and lock pin type head, this allows easy cutting position and manoeuvrability.

DETAILS

Cutting of piano wire is prohibited.

Cutting Capacity	
Material	mmOD
Cu strands	28
Al strands	38
CCP cable	85
Wire rope 6 x7	N/A
Wire rope 6 x12	N/A
Wire rope 6 x 19	N/A
Soft steel bar	N/A
Rebar	N/A
ACSR	N/A
Guy wire 1 x7	N/A
Guy wire 1 x 19	N/A

HYDRAULIC HAND CUTTERS

MODEL NO. S-240CC



NOTE: DO NOT CUT WIRE ROPE OR PIANO WIRE

SPECIFICATIONS

Output Force (kN)	84
Relief Valve	No
Size (mm)	475 (L)
Weight (kg)	5

Cuts steel materials up to 16mm

FEATURES

The heavy duty head design cuts up to 16mmOD including steel materials and features easily replaceable blades. The unit has anvil style centre cut for solid materials (Chain, Steel bar, Guy wire, Re-bar) and a flip-top latch for easy insertion of cutting material.

The S-240CC hydraulic cutter was specially designed to cut the toughest EHS guy wire, ground and anchor rods. The anvil style, centre cut blades eliminate jamming problems common to shear type cutters, and the blades are easily replaced in the field. The tool is made of high grade steel and has rubber handle grips. A flip-top latch opens the tool jaw to insert material to cut easily.

Cutting Capacity	
Material	mmOD
Steel Bolts	16
Re-bar	16
Guy Wire	16
Chain (Max Gr 80)	6

MODEL No. S-32CC1



INCLUDED ITEMS

Cutter & Carry Bag

NOTE: DO NOT CUT WIRE ROPE OR PIANO WIRE

SPECIFICATIONS

Output Force (kN)	191
Reservoir Capacity (cc)	165
Maximum Handle Force (N)	284
Relief Valve	No
Size (mm)	685 (L)
Weight (kg)	10.2

Cuts steel materials as well up to 19mm

FEATURES

The heavy duty head design cuts up to 25mmOD, steel materials up to 19mmOD and features easily replaceable blades. The unit has anvil style cut blades for solid materials (Chain, Steel bar, Guy wire, Re-bar) and a flip-top latch for easy insertion of cutting material.

The S-32CC1 hydraulic cutter was specially designed to cut the toughest EHS guy wire, ground and anchor rods. The anvil style, center cut blades eliminate jamming problems common to shear type cutters, and the blades are easily replaced in the field. The tool is made of high grade steel and has rubber handle grips. A flip-top latch opens the tool jaw to insert material to cut easily.

Cutting Capacity	
Material	mmOD
Steel Bolts	19
RE-Bar	25
Guy Wire	20
Chain (Max Gr 80)	12

MODEL NO. 31291 & 12629



MODEL No. 31291



MODEL No. 12629



- Easily cuts heavier copper and aluminium cables up to 70 mm²
- Precision-ground, shear-action, curved cutting blades
- Heat-treated for long life
- Made of heavy-duty forged steel
- Rust-resistant black oxide finish on jaws




Model No.	31291	12629
Description	PVC-covered, high-leverage handles for easier cuts	Cushion grip, high-leverage handles for added comfort
Copper		
Max Use	70mm ²	70mm ²
Freq Use	35mm ²	35mm ²
Aluminium		
Max Use Capacity CU	70mm ²	70mm ²
Communications		
Max Use Capacity	100 Pair	100 Pair
Length (mm)	235	235
Weight (kg)	0.45	0.45

RATCHET CUTTERS ACSR/GUY WIRE

RATCHET CABLE CUTTERS FOR ACSR & GUY WIRE



SPECIFICATIONS

MODEL No.	02826	34084	01274
Picture			
Description	High Performance Ratchet ACSR Cable Cutter	Ratchet ACSR Cable Cutter	EHS Guy Wire Cutter
Features	<ul style="list-style-type: none"> • Two-speed mechanism saves cutting time by closing the blades rapidly and shifting to normal speed to perform the cut • Patented mechanism opens the blades automatically when the cut is complete. • New ratchet mechanism provides excellent durability • Short length fits easily into truck bins • Durable, lightweight fiberglass handles 	<ul style="list-style-type: none"> • Extra-thick blades, ground flat to reduce potential for breakage. • Ratchet action for increased cutting power. • Two cutting actions – fast scissor cutting for small cable; converts automatically to ratchet mode. • Anti-slip mechanism for positive ratchet action. • Rubber boot protects ratchet mechanism. 	<ul style="list-style-type: none"> • Cuts 12.7mm Extra High Strength (EHS) and standard guy wire. • Cuts 12.7 mm mild steel rods and bolts. • Has two cutting actions – single-motion cutting for small cable, ratchet action for heavy-duty cutting. • Anti-slip mechanism for positive ratchet action.
Replacement Description	Movable & Fixed Blade Set	Cutter Head Unit (Inc. 2 Blades)	Cutter Head Unit (Inc. Blades, Blade Holder, Insert & Hardware)
Replacement Model No.	11397	34187	03548
Cutting Capacities (mmOD)			
ACSR	All 14.75 & under (with the exception of 20.23 with steel core equal to or less than 8.13)	24.8	12.7
Soft Steel Rod		12.7	12.7
Ehs/Std Guy Wire			12.7
Mild Steel Rods/Bolts			12.7
Length (mm)	508	743 (Jaw Open 30)	704
Weight (kg)	2.8	5.5	4.8

HEAVY-DUTY CUTTERS

HEAVY-DUTY CABLE CUTTERS

LIGHT WEIGHT HANDLES

SPECIFICATIONS

Model No.	10507	24564	05923	22291
Description	Heavy-Duty Cable Cutter	Heavy-Duty Cable Cutter	Heavy-Duty Cable Cutter	Heavy-Duty Cable Cutter
Copper (mm ²)				
Max Use	150	150	240	400
Freq Use	95	120	150	240
Aluminium (mm ²)				
Max Use		240	1000	1000
Freq Use	150	150	630	630
Communications (mmOD)				
Max Use	25	32	44	38
Freq Use				
Length (mm)	444	533	648	800
Weight (kg)	1.3	1.37	2.5	2.8

PLEASE NOTE: Cutting capacity may be less for compact and compressed cables

LIGHT WEIGHT HANDLES

SPECIFICATIONS

Model No.	30208	12847
Description	Cable Cutter	Cable Cutter
Copper (mm ²)		
Max Use	150	240
Freq Use	95	185
Aluminium (mm ²)		
Max Use	150	240
Length (mm)	457	457
Weight (kg)	1.3	1.5

PLEASE NOTE: Cutting capacity may be less for compact and compressed cables



- Strong, lightweight fiberglass handles.
- Adjustable pivot bolt provides for blade adjustment for 24564 - 05923 - 22291



- Heat-treated, precision ground, shear action blades
- Strong steel handles with grips for leverage
- Unique "double joint" reduces handle effort required by 25% and increases cutting capacity to 253mm²
- Patent Pending



RATCHET ACSR CABLE CUTTER

JENNY RATCHET CUTTERS



MODEL No. 7118






MODEL No. 7116A

FEATURES

- Extra heavy duty “C” jaw design & simple long-life ratcheting mechanism
- Thumb slide release allows rapid opening or closing
- Single lever allows easy switch from opening to closing
- Reinforced fibreglass handles with protective PVC coating
- Practically half the size of standard ratchet cutters at less than half the weight
- Large cutting capacity requires 50% less effort of standard ratcheting tools



Model No.	7118	7116A
Cuts	ACSR, CU & AL	CU & AL
ACSR	26mmOD	N/A
Cu/Al Power Cable	19.7mmOD (300mm2)	25.4mmOD (500mm2)
Length (mm)	457	457
Weight (kg)	1.8	1.8

ALUMINIUM AND COPPER CABLE CUTTERS

			
Model No.	K101/1	K105/1	K101/2
Copper (mmOD)			
Max Use (mm OD)	26	26	38
Aluminium (mmOD)			
Max Use (mm OD)	26	26	38
Length (mm)	600	350-520	930
Weight (kg)	1.8	1.4	4.2

PLEASE NOTE: Cutting capacity may be less for compact and compressed cables

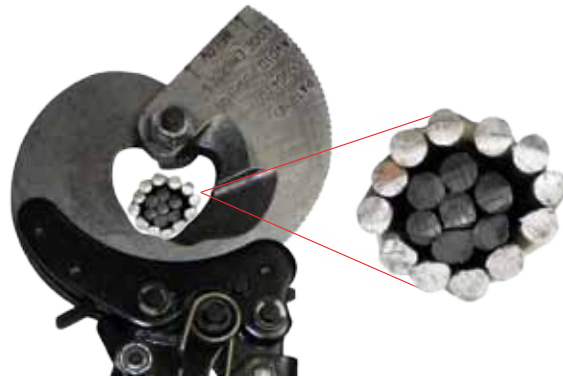
RATCHET CABLE CUTTERS

		
Model No.	LK-300B	LK-300B-INS
Description	Standard	Insulated 1000VAC
Copper (mmOD)		
Max Use	32	32
Aluminium (mmOD)		
Max Use	32	32
Length (mm)	240	240
Weight (kg)	0.6	0.6

PLEASE NOTE: Cutting capacity may be less for compact and compressed cables

RATCHET HAND CUTTER – CU, AL & ACSR

JENNY RATCHET CUTTERS MODEL NO. 9009 FOR ACSR



SHOWN CUTTING ACSR

FEATURES

- Full ratcheting cycle
- Release feature in all cutting positions
- Handle lock in closed position
- Single Hand Operation
- Blades made from 6150 alloy steel (Chrome Vanadium) heat treated
- Curved handle design for maximum leverage
- Full range of replacement parts available

SPECIFICATIONS

Weight (kg)	0.5
Length (mm)	266

- Cuts Most ACSR up to 210mm² with ease and suitable for Galvanised Steel Support Wire 3/2.5mmØ (Catenary Wire)
- Do not cut Guy Strand Wire
- Do not attempt to cut ACSR which contains a single high tensile strand exceeding 3/16" (4.75 mm) Ø or multiple steel strands exceeding 2.5mm Ø with 7 or more strands
- Suitable for RAISIN ACSR with 4 x 2.5mm Ø inner steel strands.
- Suitable for stranded copper to 185mm² (18mm Ø) not larger due to the blunt cutting edge design.

CARE & MAINTENANCE

A hand cutter of this design when used correctly on materials within its cutting capacity will give years of trouble-free operation. It is a precision tool and should be treated as such.

- Do not drop or hit tool on hard objects as damaged ratchet teeth will not allow the drive pawl to engage correctly.
- Keep the tool free from dirt, mud and foreign objects to prevent the ratchet teeth from becoming clogged and preventing the drive pawl from engaging correctly.
- Keep working parts clean and lightly oiled.



RATCHET HAND CUTTER – CU, AL & ACSR

MODEL NO. RCC-32SC (MADE IN JAPAN)



RCC-32SC

MODEL NO. RCC-42SC (MADE IN JAPAN)



RCC-42SC

KOBAYASHI RATCHET CABLE CUTTER

- Super heavy - duty ratchet mechanism & Japanese quality
- Cut a wide range of materials
- Ideal for railway copper stranded catenary cable and solid copper contact wire

SPECIFICATIONS

Model No.	RCC-32SC	RCC-42SC
	Copper	
1 Max Use* (mm²)	300	400
2 Freq Use* (mm²)	185	240
	Aluminium	
3 Max Use* (mm²)	300	400
4 Freq Use* (mm²)	240	400
Length (mm)	230 L x 95 W	260 L x 120 W
Weight (kg)	3.4	6.00

***PLEASE NOTE:** Cutting capacity may be less for compact and compressed cables

1	APPROX. (mm) OD	22.7	25.7
2	APPROX. (mm) OD	17.6	20.3
3	APPROX. (mm) OD	22.7	25.7
4	APPROX. (mm) OD	20.3	25.7

FEATURES

- Large capacity
- Robust, forged construction
- Extremely easy to use
- Large operating handles
- Gear driven for ease of operation
- Rapid blade advance
- Emergency release mechanism
- Rubber handle grip
- Can be used one-handed
- Suitable for use with gloves
- Compact design
- Full range of spare parts available
- Two models to choose from
- Cuts SDI, Multi-Core & ABC Cables

RATCHET HAND CUTTER – CU, AL & ACSR

MODEL NO. IZ-325A

(MADE IN JAPAN)

INDUSTRY
STANDARD &
ACCEPTED.
HIGH QUALITY



SPECIFICATIONS

Cuts (mm ²)	300 Cu cable
Size (mm)	260 (L)
Weight (g)	610

- Light weight
- Compact
- Clean square cutting
- Easy cutting operation
- Durable construction
- Forged blades
- Reverse operation

Maximum cutting diameter for Non-ferrous
33mm OD or 300mm² Cu Cable

FEATURES

Cut up to 300mm² or 33mm outer diameter Cu Cable.
The IZ-325A features light weight, easy to use and clean cutting of the material. The cutter is equipped with the release mechanism so that the cutting can be backed out when necessary. This economical ratchet cutter is ideal for an electrician's wiring preparation tool. To release ratchet, push release lever downward. Blade moves freely.

DETAILS

Cutting capacity for Non-ferrous cables only.

Cutting Capacity		
Material	(mm ²)	mmOD
Polyethylene cable	600V-CV325	31
	600V-CV60 x 3 core	32
Multi-core vinyl insulation cable	VVR 60 x 3 core	33
	IV325	29



RATCHET HAND CUTTER – CU, AL & ACSR

WIRE ROPE CUTTER - SENYO WAVE DRAGON

(MADE IN JAPAN)

MODEL NO. SENYO SERIES

The Senyo range of Wave Dragon hydraulic wire rope cutters from Japan are easy to operate, heavy duty and reliable with a minimum amount of parts. These tools are used in a wide range of applications, including rigging and wire rope manufacture, etc.



SENYO-B MODEL PICTURED



Model Number	Dimensions (mm)	Cutting Capacity (mm)	Weight (kg)	Replacement Blade/Cutting Edge Model No.
SENYO-A	310 x 90 x 152	20 (3/4")	10	SENYO-A3
SENYO-B	380 x 105 x 180	30 (1 3/16")	15	SENYO-B3
SENYO-C	400 x 120 x 200	40 (1 5/8")	20	SENYO-C3
SENYO-D	485 x 130 x 220	50 (2")	30	SENYO-D3

SWAGER, BATTERY HYDRAULIC

(MADE IN JAPAN)



For swaging 6-12mm (1/4-1/2") wire rope together. Arm swaging tools and arm oval sleeves must be used in conjunction (do not use other brands of crimpers with sleeves and vice versa).



MODEL NO. HS12-MH230

Wire Rope Diam (mm)	Wire Rope Diam (")	Oval Sleeve	Suitable Dies	Swages per Charge
6	1/4	OS-6A	OS-6D	144
8	5/16	OS-8A	OS-8D	108
9	3/8	OS-9A	OS-9D & 10D	75
10	13/32	OS-10A	OS-9D & 10D	75
12	1/2	OS-12A	OS-12D	39

Battery Voltage (VDC)	14.4
Battery Type	Ni-MH
Size (mm) L x W x H	355 x 90 x 350
Swaging Speed (sec)	7
Accessories (Included in kit)	Carry Case 2 x Batteries Charger Gauge



Sleeve Model	Wire Rope		Safety Load			Wire Rope Destruction Load (kg)	Box Qty	Wt Box (kg)	Box Qty per Carton	Carton Pack Wt (kg)	M3
	mm	"	(using 2 wire ropes)			(using Arm oval sleeve)					
OS-6A	6	1/4	556	536	480	2000	20	0.3	10	3.2	0.00445
OS-8A	8	5/16	990	956	856	3150	20	0.5	10	5.0	0.00669
OS-9A	9	3/8	1250	1206	1082	3770	20	1.0	10	9.7	0.01129
OS-10A	10	13/32	1546	1494	1338	5225	20	0.9	10	9.2	0.01129
OS-12A	12	1/2	2226	2150	1926	6920	20	1.8	10	18.3	0.01980

BOLT CUTTERS

BOLT CUTTERS (MADE IN JAPAN)

Blades are drop forged special alloy steel, double quenched and tempered.
Specialised cutting tools for professionals.



Mini	Standard	Bench
One hand operation with spring	Two hand operation	For volume work

Model No	Type	Length (mm)	Cutting capacity, Mild steel, HRB80/50kgf/ m2 Copper wire – mmOD	Weight	End view	Spare Jaw Model No	Weight (kg)
HA-250	Mini	233	4	0.33		N/A	N/A
HA-300	Standard	315	5	0.72		HAI-300	0.26
HA-350		365	6	0.95		HAI-350	0.36
HA-450		480	7	1.50		HAI-450	0.58
HA-600		625	10	2.50		HAI-600	1.00
HA-750		770	13	3.80		HAI-750	1.40
HA-900		930	16	5.90		HAI-900	2.10
HA-1050		1080	18	8.60		HAI-1050	3.10
HA-600BB	Bench	540	10	5.00		HAI-600	1.00



WIRE ROPE CABLE CUTTER & SWAGERS

WIRE ROPE/CABLE CUTTERS AND SWAGERS (MADE IN JAPAN)



Wire Rope Cutter – Hand		Cable Cutter – Hand	Wire Rope Cutter – Hand	Wire Rope Cutter – Bench	Wire Rope Swagers – Hand
RC-8	RC-SERIES	KC-SERIES	WR-SERIES	WR-10BB	HSC-SERIES
Single Hand	Double Hand	Double Hand	Double Hand	Bench Type	Swagers & Cuts Double Hand

Model No	Type	Length (mm)	Capacity (mm)	Weight (kg)	Model No. for Spare Blade Set	Weight (kg)
RC-8	Wire Rope Cutter	195	5	0.3	N/A	N/A
RC-450		470	12	1.5	RCJ-450	0.5
RC-800		800	16	3.9	RCJ-800	1.3
KC-450	Cable Cutter (Cu/Al)*	475	25	1.4	KCJ-450	0.5
KC-800		810	50	3.6	KCJ-800	1.0
WR-6	Wire Rope Cutter	350	6	0.9	WRJ-6	0.3
WR-10		590	10	2.3	WRJ-10	0.7
WR-14		750	14	3.6	WRJ-14	1.2
WR-16		900	16	5.3	WRJ-16	1.6
WR-20		1066	20	8.2	WRJ-20	2.7
WR-10BB	Bench Wire Rope Cutter	540	10	5.0	N/A	N/A
HSC-350	Wire Rope Swager ¹	350	1.5 – 3.5	0.9	N/A	N/A
HSC-600		600	1.5 -5.0	2.5	N/A	N/A

All Blades are drop forged and tempered.

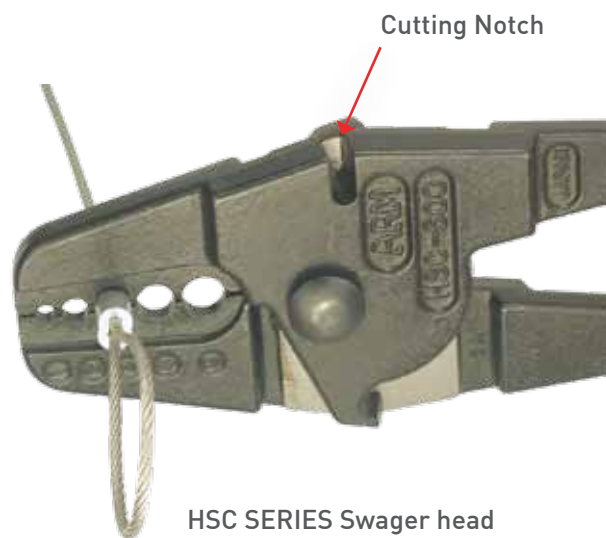
* Not for cutting wire rope

¹ Do not use any other sleeves with ARM Swaging tools,

More models available upon request.



'WR' Cutting Head shown with notched blade



HSC SERIES Swager head with cutting notch

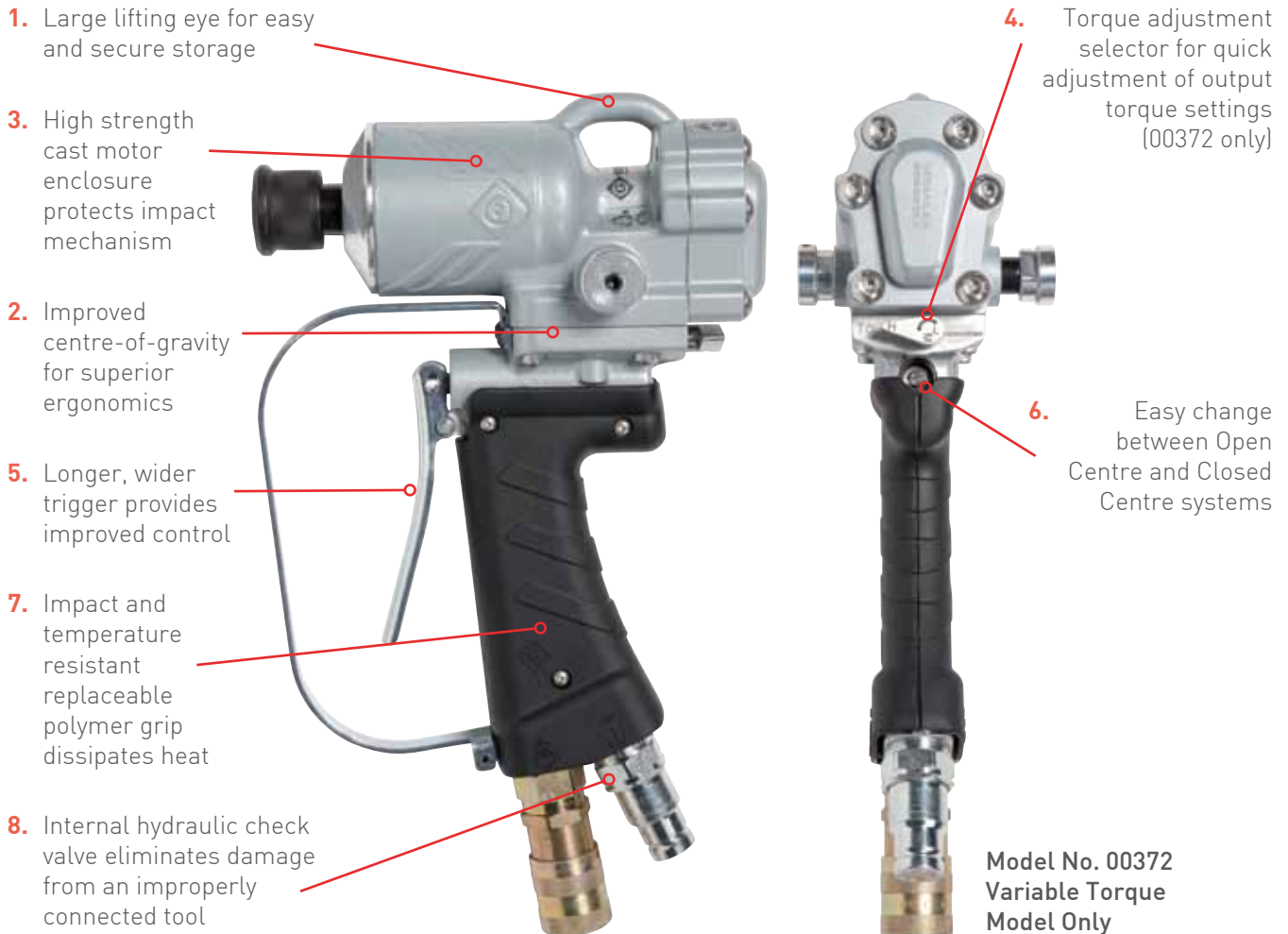
C. HYDRAULIC TOOLS & ACCESSORIES

C1 – C28

IMPACT WRENCH & HAMMER DRILL – GREENLEE	C1-C4
REVERSIBLE DRILL – GREENLEE	C5
NUT-RUNNER – GREENLEE	C5
AUGER BITS-IMPACT	C6
SOCKETS & ADAPTORS-IMPACT	C7
LOW PRESSURE CRIMPER-12 TONNE – IZUMI	C8
LONG REACH POLE CHAIN SAWS – GREENLEE	C9
CHAIN SAWS – GREENLEE	C10
LONG REACH PRUNERS – GREENLEE	C11
POLE TAMPERS – GREENLEE	C12
POLE PULLER – GREENLEE	C13
POST & ROD DRIVERS – GREENLEE	C14
POST DRIVER & ROCK DRILL – GREENLEE	C15
CONCRETE AND ASPHALT CUTTER – MARUZEN	C16
HYDRAULIC ROCK BREAKERS – MARUZEN	C17
PUMP – LOW PRESSURE, PETROL & DIESEL	C18-C19
PUMP – HIGH PRESSURE, BATTERY & ELECTRIC – IZUMI	C20-C21
PUMP – HIGH PRESSURE, ELECTRIC & PETROL	C22
SINGLE SPEED POWER UNIT, DIESEL – DURAPAC	C23
INTENSIFIER & CONTROL VALVE – GREENLEE	C24
HOSE, COUPLERS AND ACCESSORIES LOW PRESSURE	C25
MULTI POWER UNITS – DOA	C26-C27
PUMP-SUBMERSIBLE – GREENLEE	C28

IMPACT WRENCHES

IMPACT WRENCHES (MADE IN USA)



THE CHOICE IS YOURS...

Model No. 00373 (Standard) or 00372 (Variable Torque)

The high-torque, high-speed Hydraulic Impact Wrenches feature industry-leading torque and speed.

With high strength casting, reduced weight and widened trigger design, these wrenches drill holes through hardened timber poles in seconds rather than minutes. And, they have the torque (680Nm) to break free most rusty pole hardware. The 00372 Hydraulic Impact Wrench comes with a 3 position torque adjustment control and quick change access, to adjust the torque to suit the needs of each specific task. For instance, the torque can be reduced to prevent over tightening of new pole hardware. These Hydraulic Impact Wrenches are equipped with a 7/16" hex quick change chuck for use with all major brands of impact Augers as well as Greenlee Utility Nut Runner sockets, 45798 & 20920. Additionally, these wrenches feature design improvements that include a handle that reduces heat transfer, improved centre-of gravity for better balance and superior ergonomics, and increased service life.

IMPACT WRENCHES (MADE IN USA)

FEATURES

- Impact and temperature resistant replaceable polymer grip designed to dissipate heat from the cast handle
- Weight reduction of 14% to previous models
- Improved centre-of-gravity for superior ergonomics
- Increased service life with the addition of back-up rings and larger O-rings
- Built-in hydraulic check valve to eliminate damage from an improperly connected tool
- Large and strong lifting eye for easy and secure storage
- Longer and wider trigger provides improved control for use with insulated and leather outer gloves
- Fast and easy change between open centre systems and closed centre systems with no disassembly required
- Higher breaking torque in reverse to ensure you can remove tight bolts
- Cast motor enclosure that better protects the impact mechanism operation versus competing models with stamped steel enclosure
- Variable torque model easy to adjust



SPECIFICATIONS

Model No.	00373/FF/T-GUARD	00372/FF/T-GUARD
Type	Standard	Variable Torque
Capacity	7/16" hex	
Maximum Torque	677Nm @ 30 lpm	677Nm @ 30 lpm
Minimum Torque	-	213Nm @ 30 lpm
Weight (kg)	2.93	2.97
Length (mm)	208	
Width (mm)	107	
Height (mm)	280	
Hydraulic System	Super Spool selector for either open-centre or closed-centre	
Flow Range (lpm)	15-46	
Optimum Flow Range (lpm)	19-30	
Operating Pressure (Bar)	69-170	
Pressure Port Thread	9/16-18 SAE O-ring	
Return Port Thread	3/4-16 SAE O-ring	

ORDERING INFORMATION

Model No.	Description
00373/FF/T-GUARD	High torque 1/2" square drive impact wrench with 7/16" hex quick change chuck and 49314 heavy-duty adapter (includes trigger guard and M&F flush face couplings)
00372/FF/T-GUARD	High torque 1/2" square drive impact wrench with torque adjustment, 7/16" hex quick-change chuck and 49314 heavy-duty adapter (includes trigger guard and M&F flush face couplings)
00376	Trigger Guard Kit



See page C7 for adaptor details

IMPACT WRENCHES & HAMMER DRILL

IMPACT WRENCHES – 3/4" SQUARE DRIVE (MADE IN USA)

SPECIFICATIONS

Capacity	3/4" square drive
System	Open-Centre/Closed-Centre
Weight (kg)	5.6
Length (mm)	246
Width (mm)	95
Height (mm)	297
Flow Range (lpm)	15 - 45
Operating Pressure (Bar)	69 - 140
Operating Pressure Torque	1,437 Nm at 23lpm
Pressure Port Thd.	3/4 - 16 SAE O-Ring
Return Port Thd.	3/4 - 16 SAE O-Ring
RPM	2,700 rpm at 23 lpm (no load)

ORDERING INFORMATION

Model No.	Description
42268	3/4" Impact Wrench – 3/4" Square Drive
42270	3/4" Impact Wrench with 5/8" HEX Quick Change Chuck



MODEL No.
42268

FEATURES

- Added power and torque for heavy-duty jobs.
- Twin hammer design.
- Can be used on either Open-Centre or Closed-Centre system.
- Adjustable torque control.
- 3/4" square drive with or 5/8" HEX Quick Change Chuck
- Auxiliary handle.
- Needle bearing, rugged gear motor design for long life.

ROTARY IMPACT HAMMER DRILL (MADE IN USA)

FEATURES

- Adjustable flow control prevents over speeding and allows precise control of drilling speed.
- Hammer drill in concrete, brick, rock, and other difficult-to-drill materials. Drill in wood or steel with auxiliary chuck.
- Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems.
- Selector for drill or hammer/drill modes.
- Rugged gear motor.
- Built-in slip clutch to guard against over-torque.
- Depth gauge and auxiliary handle are removable for tight areas.
- Reversible.



SPECIFICATIONS

Capacity	Steel - 13 mm hole Wood - 27 mm hole Concrete - 19 mm hole, core bits 76 mm
System	Super Spool™ selector control
Chuck	SDS Plus bit shanks
Weight (kg)	3.9
Length (mm)	305
Width (mm)	89
Height (mm)	248
Flow Range (lpm)	19 - 38
Operating Pressure (Bar)	69 - 140
Pressure Port Thd.	3/4 - 16 SAE O-Ring
Return Port Thd.	3/4 - 16 SAE O-Ring
RPM	775 - 1,100 at 25 lpm
Blows Per Minute	3,400 - 4,800 rpm at 25 lpm

ORDERING INFORMATION

Model No.	Description
42309	Rotary Impact Hammer and Drill-percussion drilling SDS drill quick change chuck

HAMMER DRILL (MADE IN ITALY)

FEATURES

HD 12 is a middle weight hammer drill for concrete, masonry and natural stones. Powerful and light, its use is ideal in all drilling and small demolition works where high performance and manoeuvrability is required. The hydraulic functioning assures safety and reduces maintenance and noise that is associated with the common electric and pneumatic drills. The bit rotation can be excluded maintaining the percussion only, in this mode HD 12 becomes a chipping hammer ideal for light demolition and finishing works. The absence of an open exhaust allows use of the tool even in complete water immersion without possibility of electric shocks for the operators. The spark free operation limit risks of explosions when working in dangerous conditions. Another advantage of HD 12 is its quietness. For its characteristics the HD 12 is often irreplaceable in the maintenance of gas and water networks and in the constructions in general.

- Maximum operators safety - high power-reliability - rugged construction
- Quietness - immersibility in water without problems
- Anti vibration upper handle - adjustable side handle
- The integrated flow limiter valve protects against detrimental excess of flow
- Uses standard Kango type bit attachement

TYPICAL USERS

- Concrete power pole
- Gas and water companies
- Mining and works in tunnels or in explosive atmospheres
- Rescue civil protection
- Defence military sector
- Works in critical situations
- Under water works



MODEL No. HD 12

SPECIFICATIONS

Details & Performance	
Model No.	HD12/FF
Bit Attachment Type	Kango Hex
Bit Rotation Speed (RPM)	250
Percussions/Min	2100 x per min
Drilling Capacity min-max	
(mm OD)	16-50
Ideal Drilling Range (mm OD)	19-32
Std Bits Drilling Depth (mm)	450
Hydraulic	
Flow (lpm)	15-40
Ideal Flow (lpm)	20
Pressure Max. (Bar)	150
Tolerable Back Pressure Max (Bar)	10
Physical Characteristics	
Weight (kg)	12
Length (mm)	270
Width (mm)	160
Height (mm)	520



REVERSIBLE DRILL & NUT RUNNERS

REVERSIBLE DRILL (MADE IN USA)

FEATURES

- Compact, lightweight – ideal for line construction applications.
- Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems.
- Rugged gear motor.
- Reversible.



SPECIFICATIONS

Capacity	Steel - 13 mm hole Wood - 27 mm hole
System	Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems
Chuck	13 mm key-type
Weight (kg)	2.7
Length (mm)	190
Width (mm)	76
Height (mm)	229
Flow Range (lpm)	15 - 30
Operating Pressure (Bar)	69 - 140
Pressure Port Thd.	9/16 - 18 SAE O-Ring
Return Port Thd.	3/4 - 16 SAE O-Ring
RPM	1,300 at 23 lpm

ORDERING INFORMATION

Model No.	Description
42260/FF	Drill – 13 mm key-type chuck

Includes M & F Flash Face Couplings

NUT RUNNERS

SPECIFICATIONS

Model No.	45798	20920
Length w/o adapter (mm)	197	219
Length with adapter (mm)	241	279
Diameter (mm)	45	60
Weight with adapter (kg)	0.7	1.5
Square Nut Sizes	1", 13/16", 3/4", 5/8"	1-1/2", 1-5/16", 1-1/8"

ORDERING INFORMATION

Model No.	Description
45798	(NR1) Nut Runner c/with 7/16" quick change adapter
20920	(NR2) Nut Runner c/with 7/16" quick change adapter

FEATURES

- Deep well accepts up to 152 mm excess bolt length.
- 7/16" hex quick-change adapter included.
- Slim profile for easy use and storage.



IMPACT AUGER BITS

FEATURES

- Especially designed for Australian hardwood
- Preferred by major Australian utilities
- Ideal for power poles, bridges and wharfs
- Manufactured from high grade alloy steel
- Individually packaged in plastic protective tube
- Vigorously tested under Australian conditions
- Can be resharpened
- Also available in tungsten tipped
(Add 'TT' to the end of the standard Model No. below)

Bushranger Augers are designed with a tough fast-cutting ship head with specially hardened lead screw and side cutting edges offering the longest tool life and lowest cost-per-hole.

Designed for rugged heavy duty boring jobs in all types of hardwood. Used for utility poles, timber bridges and for pest control applications. Precision machined on absolute centres for easy smooth boring (no wobble). 7/16" hex shank for quick change chuck or standard keyed chuck.





Model Number	Size OD (mm)	Length (mm)
STMSF808X200	8	200
STMSF810X200	10	200
STMSF811X225	11	225
STMSF812X225	12	225
STMSF812X457	12	457
STMSF814X225	14	225
STMSF814X457	14	457
STMSF814X600	14	600
STMSF815X225	15	225
STMSF816X225	16	225
STMSF816X457	16	457
STMSF816X600	16	600
STMSF818X225	18	225
STMSF818X457	18	457
STMSF818X600	18	600
STMSF819x600	19	600

Model Number	Size OD (mm)	Length (mm)
STMSF820X225	20	225
STMSF820X457	20	457
STMSF820X600	20	600
STMSF822X225	22	225
STMSF822X457	22	457
STMSF822X600	22	600
STMSF822X900	22	900
STMSF825X457	25	457
STMSF825X600	25	600
STMSF825X900	25	900
STMSF826x225	26	225
STMSF826X457	26	457
STMSF829X457	29	457
STMSF829X600	29	600
STMSF832X600	32	600
STMSF838X457	38	457

IMPACT SOCKETS, ADAPTORS & EXTENSIONS

IMPACT SOCKETS, ADAPTORS & EXTENSIONS

IMPACT SOCKET (KITS), DEEP, 1/2" SQUARE DRIVE

Picture	Model No.	Brand	Description
	MET-2450	METRINCH * Sizes included in set (15 Sockets in Plastic case)	Kit, Impact Socket Set, Deep Wall (11-25mm and 7/16-1") Equivalent to a 42 piece set
	98413L	T&E	Kit, Impact Socket Set, Deep Single Hex (11,12,13,14,16,17,18,19,21,22,24,27&30) In Metal Case

Mettrinch are the only sockets that work on metric (mm), inch (SAE/AF), BSW, BSF/BS and rounded or damaged nuts and bolts. Mettrinch sockets provide a 4 point grip instead of the standard 2 point grip.

METRINCH STANDARD & DEEP IMPACT SOCKETS, 1/2" SQUARE DRIVE

Combination (Imperial & Metric)					
Deep Model No.	Standard Model No.	Metric Size	Inch Size (SAE/AF)	BSW	BSF/BS
	MET-2206B	6	1/4	-	-
	MET-2207B	7	9/32	-	-
	MET-2208B	8	5/16	-	-
	MET-2209B	9	11/32	1/8	-
	MET-2210B	10	3/8	-	-
* MET-2251B	MET-2211B	11	7/16	3/16	1/4
* MET-2252B	MET-2212B	12	15/32	-	-
* MET-2253B	MET-2213B	13	1/2	-	-
* MET-2254B	MET-2214B	14	19/32	1/4	5/16
* MET-2255B	MET-2215B	15	9/16	-	-
* MET-2256B	MET-2216B	16	5/8	5/16	3/8
* MET-2257B	MET-2217B	17	11/16	-	-
* MET-2258B	MET-2218B	18	23/32	-	-
* MET-2259B	MET-2219B	19	3/4	3/8	7/16
* MET-2260B	MET-2220B	20	25/32	-	-
* MET-2261B	MET-2221B	21	13/16	7/16	1/2
* MET-2262B	MET-2222B	22	7/8	-	-
* MET-2263B	MET-2223B	23	29/32	1/2	9/16
* MET-2264B	MET-2224B	24	15/16	-	-
* MET-2265B	MET-2225B	25	1	-	-
		26	1 & 1/16	9/16	5/8
MET-2267B	MET-2227B	27	1 & 3/32	-	-
MET-2268B	MET-2228B	28	1 & 1/8	-	-
		29	1 & 5/32	5/8	11/16
MET-2270B	MET-2230B	30	1 & 3/16	-	-
		31	1 & 7/32	-	-
MET-2272B	MET-2232B	32	1 & 1/4	11/16	3/4

IMPACT SOCKETS (SINGLE HEX), DEEP, 1/2" SQUARE DRIVE

Metric		Imperial	
Model No.	Size	Model No.	Size
X410ML	10mm	X414L	7/16"
X411ML	11mm	X416L	1/2"
X412ML	12mm	X418L	9/16"
X413ML	13mm	X420	5/8"
X414ML	14mm	X420L	5/8"
X415ML	15mm	X422L	11/16"
X416ML	16mm	X424L	3/4"
X417ML	17mm	X425L	1"
X418ML	18mm	X426L	13/16"
X419ML	19mm	X428L	7/8"
X420ML	20mm	X430L	15/16"
X421ML	21mm	X434L	1 1/16"
X422ML	22mm	X436L	1 1/8"
X423ML	23mm	X438L	1 3/16"
X424ML	24mm	X440L	1 1/4"
X425ML	25mm	X442L	1 5/16"
X426ML	26mm		
X427ML	27mm		
X429ML	29mm		
X430ML	30mm		
X432ML	32mm		
X436ML	36mm		

IMPACT ADAPTORS & EXTENSIONS

Model No.	Image #	Description
2801	1	Impact adaptor 1/2 square dr m x 7/16 hex dr male blue bully - designed for high powered torque impact wrenches, advanced technology, superior wear resistance
49314	2	Impact adaptor 1/2" square drive x 7/16" hex male - heavy duty
EX-501-5	3	Impact adaptor 1/2" square drive x 7/16" hex male - lock pin, 127mm long
EX-501-B-5	4	Impact adaptor 1/2" square drive x 7/16" hex male - lock ball, 127mm long
XAD4-3	5	Impact adaptor 1/2 dr f x 3/8 dr m
XAD4-6	5	Impact adaptor 1/2 dr f x 3/4 dr m
X4X-125	6	1/2 Drive impact extension 125mm
X4X-250	6	1/2" Drive impact extension 250mm
X4UJB	7	1/2 Drive impact universal joint



LOW PRESSURE 12 TONNE CRIMPER MODEL NO. LP-430B/FF (MADE IN JAPAN)



MODEL NO. LP-430B/FF*
Low Pressure 12tonne Crimper

SPECIFICATION

Ram stroke (mm)	36
Force at die face (kN)	110
Size (mm)	127 (dia) x 557 (L)
Weight (kg)	8.4

FEATURES

The LP-430B/FF hydraulic tool is directly powered by PTO (Power Take Off) from EWP (Elevated Work Platform) or any vehicle with a low pressure hydraulic circuit have Line pressure of 140 Bar and maximum flow of 35 litres/min..

The LP-430B/FF is designed to operate with either Open-Centre or Closed Centre hydraulic system by rotating the head to the position.

The LP-430B/FF has the same compression head as the EP-430 so that dies are interchangeable with all 12 tonne standard dies.

It has a built-in relief valve to prevent overloading the tool from more than 137 bar of input pressure.

DETAILS

- Low pressure hydraulic compression tool
- Direct power input from truck PTO
- Relief setting at 140 Bar
- Suitable for EWP
- Covered handle & trigger guard
- Dies are sold separately

See pages A17-A18 in the Crimping section for 12T Dies

*NOTE Also Available

MODEL NO. LP-430BPB

Polyurethane Hand block, to Minimise "PINCH POINT"



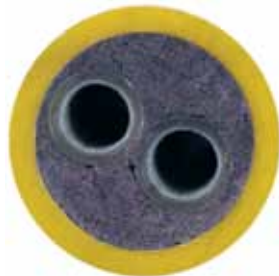
Safety Trigger alleviates tool being operated accidentally

LONG REACH POLE CHAIN SAWS

LONG REACH POLE CHAIN SAWS (MADE IN USA)

FEATURES

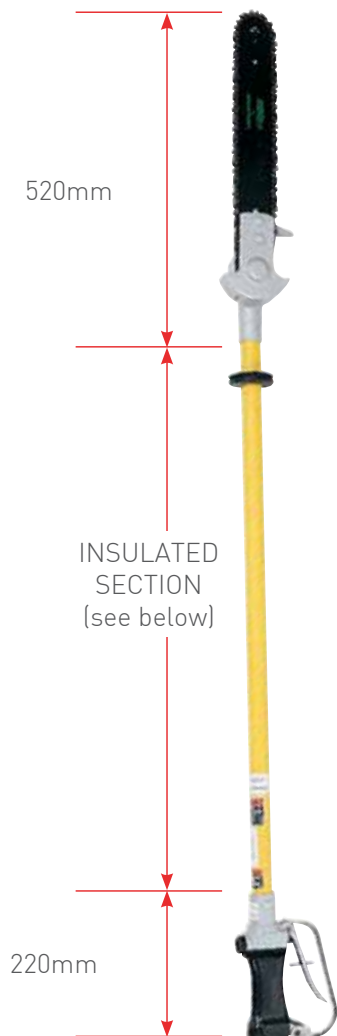
- Cuts hard-to-reach branches from EWP or from the ground.
- Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems.
- Available in two lengths.
- Insulated fiberglass extension tubes, tested to meet OSHA Regulation 1910.269., with fiberglass tube tested to 100KVA per 300mm for 5 minutes
- Safety features include: two-step trigger, trigger guard, and fully covered sprocket guard.
- Anti-kickback chain and automatic chain oiler.
- Rugged high torque gear motor.
- Internal tube Foam Filled to eliminate moisture ingress.



Foam Filling

SPECIFICATIONS

Cutting Capacity	330mm (13")
System	Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems
Width (mm)	102
Flow Range (lpm)	19-30
Operating Pressure (Bar)	69 - 140
Pressure Port Thread	9/16 - 18 SAE O-Ring
Return Port thread	3/4 - 16 SAE O-Ring



Model No	Description	Length (m)	Insulated Section Length (m)	Weight (kg)
17140/FF	Foam Filled Long Reach Chain Saw with M & F Flush Face Couplings	1.95 (75")	1.185	4.6
17142/FF	Foam Filled Long Reach Chain Saw with M & F Flush Face Couplings	2.25 (88.5")	1.528	4.9
17140	Foam Filled Long Reach Chain Saw without Couplings	1.95 (75")	1.185	4.4
17142	Foam Filled Long Reach Chain Saw without Couplings	2.25 (88.5")	1.528	4.7

CHAIN SAWS (MADE IN USA)



Pistol-Grip Chain Saws



Standard Chain Saws



FEATURES

<ul style="list-style-type: none"> • Lightweight – ideal for cutting back or trimming from EWP. 	<ul style="list-style-type: none"> • Ideal for large trimming applications and cut-up removal jobs.
<ul style="list-style-type: none"> • Chain and bar can be adjusted without removing sprocket cover. 	<ul style="list-style-type: none"> • Chain and bar can be adjusted without removing sprocket cover.
<ul style="list-style-type: none"> • Sprocket cover can be removed without tools for easy saw cleaning. 	<ul style="list-style-type: none"> • Sprocket cover can be removed without tools for easy saw cleaning.
<ul style="list-style-type: none"> • Handle position can be oriented to horizontal, or to 60° or 30° relative to bar and chain to user preference (except on model with chain brake). 	<ul style="list-style-type: none"> • Handle position can be oriented to horizontal, or to 60° or 30° relative to bar and chain to user preference (except on model with chain brake)
<ul style="list-style-type: none"> • Rugged gear motor and expanded chip exit area. 	<ul style="list-style-type: none"> • Rugged gear motor and expanded chip exit area.
<ul style="list-style-type: none"> • Automatic chain oiler can be adjusted without tools. 	<ul style="list-style-type: none"> • Automatic chain oiler can be adjusted without tools.
<ul style="list-style-type: none"> • Safety features include: two-step trigger, high impact polymer front handle/shroud, wide lower handle protects hands/knuckles, chain catcher stops chain rotation. 	<ul style="list-style-type: none"> • Safety features include: two-step safety trigger, high impact polymer front handle/shroud, wide lower handle protects hands/knuckles, chain catcher stops chain rotation.
<ul style="list-style-type: none"> • Reduced kickback bar and chain. 	<ul style="list-style-type: none"> • Reduced kickback bar and chain.
<ul style="list-style-type: none"> • Supplied with 305 mm steel braided whip hoses (couplers not included). 	<ul style="list-style-type: none"> • Supplied with 305 mm steel braided whip hoses (couplers not included).
<ul style="list-style-type: none"> • 45826/FF includes chain brake that meets ISO 6535. 	<ul style="list-style-type: none"> • Chain brake models meet requirements of ISO 6535.

SPECIFICATIONS

Style	Pistol Grip	Pistol Grip	Standard	Standard	Standard
Model No.	49565/FF	45826/FF	49566/FF	49603/FF	45653/FF
	-	Chain Brake Model	-	-	Chain Brake Model
Cutting Capacity (mm)	330	330	406	508	406
System	Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems	Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems	Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems	Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems	Super Spool™ selector control for use on Open- and Closed-Centre hydraulic systems
Flow Range (lpm)	15-30	15-30	15-30	15-30	15-30
Operating Pressure (Bar)	69-140	69-140	69-140	69-140	69-140
Pressure Port Thread	9/16-18 SAE O-Ring	9/16-18 SAE O-Ring	9/16-18 SAE O-Ring	9/16-18 SAE O-Ring	9/16-18 SAE O-Ring
Return Port thread	3/4-16 SAE O-Ring	3/4-16 SAE O-Ring	3/4-16 SAE O-Ring	3/4-16 SAE O-Ring	3/4-16 SAE O-Ring
Weight (kg)	3.9 (saw with bar and chain)	3.9 (saw with bar and chain)	4.3 (saw with bar and chain)	4.6 (saw with bar and chain)	4.3 (saw with bar and chain)
Length (mm)	673	673	800	902	800
Width (mm)	254	254	254	254	254

LONG REACH PRUNERS

LONG REACH PRUNERS (MADE IN USA)



Utility Pruner	Orchard and Shade Tree Pruner
<p>Model No. 48520/FF</p>	<p>Model No. 42909/FF</p>

FEATURES

- Used for utility line clearing and selective pruning of shade trees.
- Heavy Duty capacity, cuts branches up to 50 mm.
- Trigger guard.
- Insulated fiberglass extension tubes, tested to meet OSHA Regulation 1910.269.
- Heat-insulated handle.
- Full power return.
- Heavy-duty large capacity pruner for all agricultural work.
- 360° swiveling extension.
- Heat barrier grip and full trigger guard.
- Lightweight.

Model No. 42909/FF NOT TO BE
USED NEAR HIGH VOLTAGE LINES

SPECIFICATIONS

Style	Utility Pruner	Orchard & Shade Pruner
Model No.	48520/FF	42909/FF
Optional Accessories	* 11660 (Conversion Kit for Closed Center Systems)	* 11660 (Conversion Kit for Closed Center Systems)
Cutting Capacity (mm)	50	44
Extension Type	Fiberglass – tested to 100kVA/5min	
System	Open-Centre*	Open-Centre
Flow Range (lpm)	15-23	15-23
Operating Pressure (bar)	69-140	69-140
Pressure Port Thread	9/16 – 18 SAE O’ring	3/8” NPTF
Return Port Thread	3/4 – 16 SAE O’ring	3/8” NPTF
Weight (kg)	4.8	3.5
Length (m)	2.16	1.5
Width (mm)	158	152

* Refer to accessories for closed centre conversion kit

POLE TAMPERS (MADE IN USA)

FEATURES

- Makes quick work of setting poles, asphalt patch, and general construction backfill compacting.
- Only three moving parts for low maintenance.
- Kidney-shaped foot included.
- Hose End Valve - Reversible on/off valve for Open- and Closed-Center hydraulic systems.
- Valve on Tube - Rotate trigger spool for Open- and Closed-Center hydraulic systems.



On Tube Valve



Hose End Valve

SPECIFICATIONS

Style	Hose End Valve	Hose End With No On/Off Valve	Hose End Valve	On Tube Valve	On Tube Valve
Model No.	42198/FF	42202/FF	42199/FF	42201/FF	42200/FF
Length (mm)	1500	1500	2200	1500	1800
System	9/16 & 3/4		Open- and Closed-Center		
Flow Range (lpm)	15-23	15-23	15-23	15-23	15-23
Operating Pressure (Bar)	69-138	69-138	69-138	69-138	69-138
Pressure Port Thread	9/16-18 SAE O-Ring 3/4-16 SAE O-Ring	9/16 M18 JIC 9/16 M18 JIC	9/16-18 SAE O-Ring 3/4-16 SAE O-Ring	9/16-18 SAE O-Ring 3/4-16 SAE O-Ring	9/16-18 SAE O-Ring 3/4-16 SAE O-Ring
Return Port thread	9/16 M18 JIC 3/4-16 SAE O-Ring				
Std Foot Size (mm)	63 x 203 (Kidney Shape)	63 x 203 (Kidney Shape)	63 x 203 (Kidney Shape)	63 x 203 (Kidney Shape)	63 x 203 (Kidney Shape)
Blows per minute @ 19lpm	1,160	1,160	1,160	1,160	1,160
Width (mm)	102	102	102	102	102
Weight (kg)	10.4	10.4	12.7	9.8	10.4

POLE PULLERS

POLE PULLERS (MADE IN USA)



Pole Puller



Model No. 42239
with standard
base plate

Pole Puller



Model 42239/AUS
with large base plate
& extra chain holder

- Heavy-duty construction
- Works in confined areas, next to buildings, or out in the open
- Two Proof-certified (1.8 m) alloy chains included
- Steel Base Plate
- Heavy-duty construction
- Works in confined areas, next to buildings, or out in the open
- Special Heavey Duty Chain included
- Extra Chain Lock Point
- Large Heavy Duty Base Plate
- Modified head with extra chain link holder

SPECIFICATIONS

Style	Pole	Pole
Model No.	42239	42239/AUS
System	Open- and Closed-Center	Open- and Closed-Center
Lift Capacity (kg)	25,401	25,401
Stroke (mm)	427	427
Chain (mm)	16 Proof Cert Alloy	16 AS3775.1-2004
Weight (kg)	80.7 (Cylinder Only 45.8)	80.7 (Cylinder Only 45.8)
Length (mm)	-	-
Height (mm)	813 Retracted	813 Retracted
Width (mm)	381 with Base	381 with Base
Flow Range (lpm)	15-56	15-56
Operating Pressure (bar)	20-193	20-193
Max Pressure (bar)	-	-
Pressure Port Thread	½" NPTF	½" NPTF
Return Port Thread	½" NPTF	½" NPTF

POST AND ROD DRIVERS (MADE IN USA)



Sign Post Driver



Ground Rod Driver



- Drives a variety of post sizes from small de-linear posts up to 89 mm round posts including square, "U" channel, breakaway stubs, round, "T" fence, and wood.
- Quick change front head design accommodates adaptors for different types of posts.
- Dual guide handles for good directional control.
- A deep post opening and smooth operation ensures that the driver will not jump off of posts.
- Available with integral trigger or remote on/off valve.
- U.S. Patent #6,626,247.
- Lightweight allows easy mounting on top of rods.
- Can be used with Open- and Closed-Center hydraulic systems.
- Dual guide rods provide excellent control for driving rods straight, and the remote on/off valve makes it easy to control the depth of the rod.
- A deep rod opening and smooth operation ensures that the driver will not jump off of rods.

SPECIFICATIONS

Style	Sign Post Driver	Sign Post Driver	Ground Rod Driver	Ground Rod Driver
Model No.	11183	11186	11192	11193
Description	Sign post driver w/ integral trigger w/ universal post adaptor	Sign post driver w/remote on/off valve w/universal post adaptor	Ground Rod Driver 16mm Opening	Ground Rod Driver 25mm Opening
Hydraulic System	Open & Closed Centre	Open & Closed Centre	Open & Closed Centre	Open & Closed Centre
Weight (kg) *	34	34	24	24
Length (mm)	813	813	654	654
Flow Range (lpm)	19-30	19-30	19-30	19-30
Blow Energy (J)	110	110	-	-
Blows/min @ 30lpm	1500	1500	1740	1740
Max Input Pressure (bar)	160	160	138	138
On/Off Hose Connection Sizes (11183)				
Pressure Hose	½" NPTF	½" NPTF	-	-
Return Hose	½" NPTF	½" NPTF	-	-
Valve Connection Port Sizes (11186 & 11192/11193)				
On/Off Valve Pressure Port	9/16-18 SAE O-Ring Boss	9/16-18 SAE O-Ring Boss	9/16-18 SAE O-Ring Boss	9/16-18 SAE O-Ring Boss
On/Off Valve Return Port	3/4-16 SAE O-Ring Boss	3/4-16 SAE O-Ring Boss	-	-
Hose Length (m)	0.305	0.381	1.78	1.78

* Includes Adaptors & Hoses



Model No.	49532	49534	49533	10913	02871	02872	111952
Suits	11183/11186	11183/11186	11183/11186	11183	11186	11192/11193	ALL
Description	Universal Post Adaptor	Square Post Adaptor 54mm	Round Post Adaptor 96mm	Hose Assembly 305mm	Hose Assembly 381mm	Hose Assembly 178mm	Remote Valve

POST DRIVER & ROCK DRILLS

POST DRIVER & ROCK DRILLS (MADE IN JAPAN)



FEATURES

- For fencing, piping, road barrier tubes, signposts, earth rods, anchors, tendrils supports, braces...etc
- Two Side handles make it ergonomically easier to operate
- Lightweight body
- It can drive up to diameter 120mm wide posts with model KH650, contact us for more details
- On/Off Valve is locar-ted on Handle for ease of operation

SPECIFICATIONS

Model No.	KH-182
Overall Length (mm)	600 x 273
Weight (kg)	23
Oil Flow (L/min)	18-22
Blow Per Minute (bpm)	1700
The Biggest Diameters {Options} (mm)	80 {100 & 120}
Working Pressure (bar)	78-118

ROCK DRILLS (MADE IN JAPAN)

FEATURES

- For breaking stones, roads, and for drilling dynamite borehole drilling
- The only one rock drill in the world with a built-in air compressor
- No air or water supply necessary
- Low noise and dust free
- Can be used as breakers with 4 adjustable speed feature

SPECIFICATIONS

(AIR COMPRESSOR CAPACITY 50-80L/min)

Model No.	DH204	DH205
Overall Length (mm)	626	692
Width	412	410
Weight (kg)	20	22
Oil Flow (L/Min)	20 - 25	
Shank Size Hex	7/8" x 4 1/4" (22 x 108mm)	
Rotation Speed (RPM)	0 - 400(4 adjustable speed)	
Operating Pressure (bar)	140	
Maximum Drilling (mm)	65 DIA	
Drilling Depth (m)	Up to 3	



DH204 Standard Model



DH205 Anti-Vibration Handle Model



CONCRETE & ASPHALT CUTTER & ROCK BREAKERS

CONCRETE & ASPHALT CUTTER (MADE IN JAPAN)



FEATURES

- Used for cutting concrete, asphalt surfaces and cast iron pipe products
- Fitted with hydraulic motor, reduced noise compared with petrol engine cutters
- High torque which makes good use of hydraulic system results in maximum efficiency
- It can be used in a wet environment
- Compared to petrol engine cutters, hydraulic cutters have a great advantage due to less parts for service and repair
- Compact, lightweight body can be used in narrow places
- Supplied with Whip Hoses



SPECIFICATIONS

Model No.	CH-130
Overall Dimension (mm)	602 x 207 x 315
Weight (kg)	8
Required Oil Flow (L/Min)	20.5
Rotation (RPM)	3200
Blade Diameter (mm)	305 (HOLE DIAMETER 22)



HYDRAULIC ROCK BREAKERS

HYDRAULIC BREAKERS (MADE IN JAPAN)



FEATURES

- Used in finishing and demolition work
- Low Noise and Low Vibration
- No restriction for operating in a lower temperature
- Hydraulic lubricated at all times, easily maintained and less parts for repair
- Steels are common with pneumatic breakers
- Lightweight and compact
- All models except BH23K have anti-vibration handles

Some models can source power from mini excavators

Model No.	BH051V	BH112V	BH161V	BH161VC	BH23K
Overall Length (mm)	428	566	660	660	702
Weight (kg)	6	11	17.3	21.5	24.8
Oil Flow (L/min)	20.5	15-20	18-22	18-22	20.5
Blow Per Minute (bpm)	2700	1450 (15L/min)	1650	1650	1500
Shank Size (Hex)	19 x 50mm	22 x 80mm	25 x 108mm	25 x 108mm	25 x 108

BH23K has anti-blank hammering feature for safer operation

BREAKER BITS

Image	Item & Details	Suits BH051V	Suits BH161V, BH161VC & BH23K	Suits BH112V
	Hex Shank (mm)	19x50	25x108	22x80
	Moil (Model No.)	13101300	14601465	17201420
	Length (mm)	300	465	420
	Moil (Model No.)	-	14601510	-
	Length (mm)	-	510	-
	Flat Chisel (Model No.)	13102300	14602465	17202420
	Length (mm)	300	465	420
	Flat Chisel (Model No.)	-	14602510	1720
	Length (mm)	-	510	-
	Wide Chisel (Model No.)	13105300	14603465	17203450
	Width (mm)	60	75	75
	Length (mm)	300	465	450
	Wide Chisel, Bend (Model No.)	13107300	-	-
	Width (mm)	75	-	-
	Length (mm)	300	-	-
	Clay Spade (Model No.)	-	14605530	17204500
	Width (mm)	-	140	110
	Length (mm)	-	530	500
	Asphalt Cutter	-	14606400	17205500
	Width (mm)	-	125	125
	Length (mm)	-	400	500
	Digging Chisel (Model No.)	-	-	17209520
	Width (mm)	-	-	75
	Length (mm)	-	-	520

LOW PRESSURE HYDRAULIC PUMPS (MADE IN JAPAN)



FEATURES

- Engine petrol driven hydraulic power source
- Compact design
- Extensive range of tools available to suit
- Equipped with oil cooler which allows constant use even in hot climates
- Folding handle + pneumatic wheels for easy maneuverability
- Fitted with male & female flush face hydraulic couplings

SPECIFICATIONS

Model No.	UH070	UH103G
Overall Dimension (mm)	615L x 480W x 577H	672L x 500W x 680H
Weight (kg)	40	74
Engine (HP)	SUBARU 4.2kW	SUBARU 8.1kW
Maximum Pressure (Bar)	117	137
Max Oil Flow (l/min)	20.5	25.0
Oil Capacity (L)	4	18
Starter	Recoil (Pull start)	



NOTE: See page C25 for non-insulated hoses

PUMP - LOW PRESSURE

LOW PRESSURE PETROL HYDRAULIC POWER UNIT (MADE IN USA)



- Easy pull recoil start and dependable Honda 4 stroke OHV GX390 petrol engine with low oil alert and shutdown protection system.
- Engine is CARB (California Air Resources Board) certified as well as compliant with 2011 EPA emissions standards.
- Oversized oil cooler and electric fan ensures cool running.
- Large and wide no flat tyres ensure easy maneuverability on job site.
- Hydraulic oil level sight gauge and 10 micron oil filter.
- Tubular frame protects components and allows easy access to maintenance points.
- Integral grab rails for lifting the unit into trucks and trailers.
- Quick release telescopic handles.
- HTMA flat-face hydraulic couplings.
- Easy access service points for engine oil, fuel, battery and oil filter.



Model No.	45895
Description	F13 Power Unit
Power	9.7 kW at 3,600 rpm
System	Open-Centre
Rated Flow	19-30
Rated Pressure (Bar)	138 bar
Fuel (L)	Petrol 6.5
Hyd Oil Capacity (L)	7.0
Dry Weight (kg)	76
Length (mm)	710
Width (mm)	597
Height (mm)	648

LOW PRESSURE DIESEL HYDRAULIC POWER UNIT (MADE IN ITALY)



FEATURES

Professional hydraulic power pack with Diesel engine. HATZ 7.8kW - recoil and battery start. The pack gives flows from 20 to 30 L/min and 140 Bar pressure to power tools.

Every part of RAPTOR DIESEL is manufactured to give the maximum of performances, reliability and transportability. The points of strength are the quietness the robustness and economy that make its use ideal in the urban maintenance and in the professional works in general. The new design and the numerous exclusive features make point by point RAPTOR DIESEL one of the best products available today on the market.

NOTE: the hydraulic power required can be different and supplied according to customer specifications

SPECIFICATIONS

Engine	
Model No.	Raptor-D
Engine Type	Hatz Diesel
Power (kW)	7.8
Starting	Recoil & Battery
Engine Acceleration	Manual
Battery Power (Amps)	30
Flow MAX (lpm)	30
Pressure Max. (Bar)	140
Oil Tank Capacity (L)	12
Standard Hose Length (m)	7
Physical	
Weight (kg)	135 (Oil Filled)
Length (mm)	880
Width (mm)	650
Height (mm)	700

- Robust frame in stainless steel tube with bendable lifting eye
- Quick connect male & female flush face couplers installed on swivel fittings protect against impacts
- Oil cooler installed on suction line avoids damage from pressure pulsations
- High efficiency oil temperature control ideal for tropical climates
- Engine and hydraulic parts installed floating on shock mounts to limit noise and vibrations
- Noise absorbing panels, superior and lateral, assures protection against impacts
- Large pneumatic wheels for easy movement on rough terrains



RAPTOR "D"

PUMP – HIGH PRESSURE, BATTERY & ELECTRIC

MODEL No. REC-P1(BB) BATTERY HYDRAULIC PUMP



The REC-P1(BB) kit has a battery powered hydraulic pump (700Bar) with hard wired remote control switch, batteries (2 x Li-Ion) and charger (12/24VDC). A quiet and powerful pump unit, the 28.8VDC motor provides an intermittent duty hydraulic power source to a remote head up to 60 ton capacity.

The remote control permits operator to advance, retract and stop the piston at any desired position. With a 1L reservoir tank it is capable of operating a 60 ton compression head.

Two batteries must be inserted into the cartridge slots of the pump because they are connected in series to activate 28.8V DC motor

NOTE: Two BP-80 battery packs are required to power this pump.
Hoses sold separately



Motor (VDC)		28.8
Oil delivery	Low Pressure (L/min)	1.8
	High Pressure (L/min)	0.3
Reservoir volume (L)		1
Oil pressure (Bar)		700
Size LxHxW (mm)		250x380x175
Weight (kg)		14.0 (less battery)

# REC-P1(BB) Kit Contents	Description	Qty
REC-P1	Pump & Remote Switch	1
BP-80	Battery Li-Ion	2
CH-90	Charging Base	1
CH-DCC	12/24VDC Charge Lead	1
CH-ACC-A	230VAC Charge Lead	1

BATTERY COMPRESSIONS (USING 2 x BP-80 Lithium-Ion Batteries)

Tool Head & Sleeve Size	Approx. No. of Compressions
EP-410H 150mm2 Cu Sleeve	90
EP-520C 500mm2 Cu Terminal	36
EP-60S 6036AH Sleeve	36

See Page B14 for Battery and Charger Details

MODEL No. R14EF1(CE) ELECTRIC PUMP



The R14EF1(CE) remote operated pump gives the operator complete control. Push button operation permit the operator to advance and retract at will. The operator is never committed to a full cycle, and can always retract at any time during the advance even under pressure. This feature increases efficiency because cuts and crimps can be adjusted as necessary, simply by stopping the advance or retract mode.

The electric motor shuts off when UP button is released and the pressure reaches to pre-set valve of 685Bar. The ram can be retracted while DOWN button is depressed. The 3 metre remote control cable provides both safety and convenience. The operator can set up an operation and then move away from the work site before engaging the tool.



Model No	Description	Qty
R14EF1(CE)*	Pump & Remote Switch	1

FEATURES

- Two stage pumping system for rapid advance
- Adjustable output pressure to 685Bar
- 360 degree swivel joint for hose manoeuvrability
- Visual oil level
- Durable steel cover
- Wired remote control (LV transformer for added safety)
- Hose sold separately

Oil pressure (Bar)		700
Reservoir Capacity (L)		2.0
Oil Delivery	Low Pressure (L/min)	2.9
	High Pressure (L/min)	0.3
Input		Single Phase
Voltage		230/50Hz
Size LxWxH (mm)		250x160x355
Weight (kg)		16.5 (14.5 Dry)

* Not recommended for use on field generators

PUMP - HIGH PRESSURE

HIGH PRESSURE PUMPS (MADE IN JAPAN)

RIKEN



Roll Frames
available upon
request

SMP-40AR-67B
Pictured

SMP-30 & SMP-40

The Riken SMP-30 and SMP-40 series electric hydraulic pumps have a magnet motor which greatly reduces noise compared with conventional motor types (Max 70dBa).

The “AR” models have an external adjustable pressure switch with automatic return function. They include a standard 3m remote hand pendant, operated through the low voltage step down transformer for added safety. The “dead-man” feature stops the pump when the switch is released on the remote hand pendant. Optional foot switch is also available Model No. SF1. Load holding is possible by fitting optional Model No. SCH-13B check valve with by-pass

SPECIFICATIONS

Model No.	SMP-30AR-329C	SMP-40AR-67B
Included	Hand Pendant Control	
Electric Magnet Motor 50Hz	230VAC	
Insulation Type	Class E Closed Type	
Voltage (V)	230	230
Rated Output (KW)	0.25	0.45
MAX CURRENT @ 5MIN (AMPS)	3.5	5.2
Hydraulic Pump		
Max Working Pressure (Bar)		
1st Stage	15	15
2nd Stage	700	700
Output (L/min)		
1st Stage	2.0	3.0
2nd Stage	0.2	0.4
Reservoir Capacity (L)	2	2
Usable Oil (L)*	1.8	1.8
Weight	14.5	15.0

*Supplied with oil

DAIA



DSP-120

The DSP-120 is a solenoid valve operated switched pump. It features an advance pressure/hold/retract operation and has a hand pendant control operated through a 24VDC step down transformer

SPECIFICATIONS

Model No	DSP-120
Output Pressure (L)	700Bar @ 0.17L/min
Reservoir Capacity	1.2L
Weight (kg)	7.5kg
Dimensions (mm)	265L x 145W x 275H
Voltage	230VAC @ 50Hz
Accessories	Foot Switch #SFVA-1-2
Notes	Hose Sold Separately

For 850/700 Bar
battery pumps refer
pages A34 and A35



These pumps are ideal for use with remote hydraulic single acting tools. Including cable cutters and crimpers, as well as punching, bending and cutting tools used in busbar fabrication and switchboard building.

HIGH PRESSURE PETROL PUMPS – SINGLE & DOUBLE ACTING



Image				
Model No.	HPE-2A	HPE-2D	HPE-4	HPE-4M
Type	Single Acting	Double Acting	Double Acting	Double/Single Acting
Details	<ul style="list-style-type: none"> • Remote control operation • Visual oil level • External air vent and oil level • Compact design • Dependable Fuji Heavy Industries engine • For single acting tools • Reliable Fuji Heavy's Engine • Hydraulic hose sold separately 		<ul style="list-style-type: none"> • Pressure gauge confirms crimping force • Reliable output by Fuji Heavy Industries engine • Hydraulic hose sold separately 	
Features	<ul style="list-style-type: none"> - For single acting tools - Pole mounting bracket as a standard accessory 	<ul style="list-style-type: none"> - Solenoid operated 4 way valve (For Double Acting Tools) 	<ul style="list-style-type: none"> - Auto operation allows fully automatic compression work, advance-685Bar retraction of ram, by just pressing UP button once on the remote control switch - Compression counter to monitor compression cycles for the remainder of maintenance schedule - For double acting tools - Wired remote control operation with manual control lever 	<ul style="list-style-type: none"> - For double and single acting tools - Positive manual control valve - Relief valve for advance (685Bar) and retract (137Bar) - Maximum hose length 20 metre - Relief valve setting <ul style="list-style-type: none"> • UP: 685Bar • DOWN: 137Bar
Description	<p>The HPE-2A single acting petrol engine driven hydraulic pump is the most sophisticated engine pump on today's market. It builds pressure to 685Bar automatically and returns engine RPM to an idle.</p> <p>Wired remote control allows operator complete control. Oil volume is large enough to operate a 60 ton class single acting compression head.</p> <p>The Fuji Heavy Industry four cycle engine EH09-2D is used with this Pump. This engine meets emission control in accordance with EPA Phase2 and CARB Tier2.</p> <p>This engine improves fuel cost by 15% in comparison with former EY08D engine on the HPE-1A.</p>	<p>The HPE-2D double acting petrol engine driven hydraulic pump is the most sophisticated pump on today's market. It builds pressure to 685Bar automatically and returns engine RPM to an idle.</p> <p>Wired remote control allows operator complete control. Oil volume is large enough to operate a 100 ton class double acting compression head for intermittent use.</p> <p>The Fuji Heavy Industry four cycle engine EH09-2D is used with this Pump. This engine meets emission control in accordance with EPA Phase2 and CARB Tier2.</p> <p>And this engine improves fuel cost by 15% in comparison with former EY08D engine on the HPE-1D.</p>	<p>The HPE-4 is a double acting engine driven hydraulic pump suitable for double acting presses for transmission line use.</p> <p>This pump is one of the most sophisticated on today's market. It builds pressure to 685Bar automatically, and returns the engine RPM to an idle. The push button will control the fluid flow at the discretion of the operator.</p> <p>There is also a manual mode on the pump that can be used to override the remote control. Electric circuit boards are completely modulated for easy replacement and repair.</p> <p>The Fuji Heavy Industry four cycle engine EX-13 is used with this Pump. This engine meets emission control in accordance with EPA Phase2 and CARB Tier2. And this engine reduces level by 2dBA in comparison with former EY15 engine on the HPE-3.</p>	<p>The HPE-4M is a manual controlled engine driven hydraulic pump suitable for single and double acting presses for transmission line use. The manual control valve permits the user to advance, hold and retract the ram at will. It works for both single and double acting presses. Simple design and positive manual control valve is ideal for high voltage construction site where electric magnetic field becomes a concern.</p> <p>Valve Mode & Operation</p> <p>UP: the ram advances and pressure goes up to 685Bar. Then the relief valve functions.</p> <p>NEUTRAL: the ram stops and holds its position</p> <p>DOWN: the ram retracts to its lowest point. (Single and double acting presses) Then the pump builds up pressure to 137Bar and the relief valve functions.</p> <p>(Double acting press)</p> <p>The Fuji Heavy Industry four cycle engine EX-13 is used with this Pump. This engine meets emission control in accordance with EPA Phase2 and CARB Tier2. And this engine reduces level by 2dBA in comparison with former EY15 engine on the HPE-3M.</p>

SPECIFICATIONS

Pressure (BAR)	700			
Oil Delivery (L)	1st Stage – 2.6 2nd Stage – 0.5	1st Stage – 2.6 2nd Stage – 0.35	1st Stage – 7.5 2nd Stage – 1.2	
Engine	Air Cooled, 4 Cycle Petrol			
Power	1.5kW / 3,600RPM		2.2kW / 3,600RPM	
Reservoir (L)	2.2		10.0	
Size (MM) LxWxH	470x330x443	530x330x443	665x405x445	670x405x475
Wt (KG)	33.5 (30 Dry)	37.5 (34 Dry)	60 (50 Dry)	

SINGLE SPEED POWER UNIT, DIESEL

DURAPAC



MOTOR SIZE

3.4 kW

FLOW

2.5 Lpm

MAXIMUM OPERATING PRESSURE

700 bar

FEATURES

This diesel driven single speed radial piston power unit is suitable for heavy duty applications out in the field and can deliver a minimum flow of 2.5 Lpm at 700 bar pressure.

It has a 50L usable oil capacity coupled with the reliability of a 3.4kW Hatz Diesel motor contained within an easy to handle protective transport system which incorporates an engine control dash board. It has a remote control pendant (on a 4m lead) for actuation of solenoid valves.

All power units have an externally adjustable pressure relief valve and offers a range of directional control valve options to operate single and double acting cylinders and tools. An optional sub-plate style pilot check valve is also available.

DIESEL DRIVEN SINGLE SPEED RADIAL PISTON POWER UNIT



DETAILS

Hatz Diesel Engine Model #1B30V

Power (minimum) 3.4 kW

**Engine Speed (Variable Speed Control)
on Load 0 - 2,200 rpm**

- Air Cooled Diesel - vertical shaft
- Manual Adjustment - static throttle control lever
- 12 V electric start/stop control panel
- Back-up recoil starter
- Shutdown protection on low oil pressure
- Shutdown protection on high temperature
- Side exit exhaust silencer with mesh guard
- Onboard 5 litre fuel tank
- Fuel & oil filter

Model Number	Motor Type	kW	RPM	Flow Rate (Lpm) @ 700 Bar	Maximum Pressure Rating (Bar)	Remote Pendant Function 4 M Lead	Valve Type (3/8 NPTF Ports) Sol. = Solenoid Man. = Manual	Usable Oil Capacity (L)	Approx. Dry Weight (kg)	Approx. Dimensions (mm)
PDM-3053	Diesel	3.4	2,200	2.5	700	n/a	3W/3P Man.	50	190.0	450 W x 750 L x 650 H
PDM-3054	Diesel	3.4	2,200	2.5	700	n/a	4W/3P Man.	50	190.0	450 W x 750 L x 650 H
PDS-3053	Diesel	3.4	2,200	2.5	700	Solenoid	3W/3P Sol.	50	190.0	450 W x 750 L x 650 H
PDS-3054	Diesel	3.4	2,200	2.5	700	ADV / HOLD / RETRACT	4W/3P Sol.	50	190.0	450 W x 750 L x 650 H

INTENSIFIER & CONTROL VALVE (MADE IN USA)



Hydraulic Intensifier – Dynapress



Control Valves – High Pressure



- Small and compact, the 49830 operates 700 bar remote head tools.
- Able to operate on either Open- or Closed-Centre hydraulic systems without making any changes to the tool.
- Uses the proven, versatile Dynapress® remote control valves and hose sets.
- Supplied with pressure and return high pressure 700 bar screw-type couplers (HTMA couplers ordered separately).
- Supplied with convenient foldable carrying handle, and can be permanently mounted.
- May be directly connected to the tool or used remotely with hoses.
- Compact 4-way, 3-position valve.
- 207 - 275 bar return line ground dump safety valve.
- Controlled advance and built-in hold feature.
- Single-acting valve available to use with existing single-acting tools.

SPECIFICATIONS

Style	Intensifier	Control Valve (Single Acting)	Control Valve (Double Acting)
MODEL No.	49830	42948	42949
Description	Dynapress Hyd Intensifier 700Bar Output	Control Valve, 3 Position Valve for Single Acting Tool, HP Quick Disconnects Inc	Control Valve 4 Way, 3 Position Valve for Double Acting Tool, HP Quick Disconnects Inc
System	Open & Closed Centre	Refer description	Refer description
Max Operating Pressure	-	700bar Return Relief	700bar Return Relief
Return Pressure (Bar)	-	n/a	350Bar
Input Flow Range (lpm)	-	12-30lpm	12-30lpm
Port Size Inlet	-	¼-18 NPTF; Tool: Couplers Provided	¼-18 NPTF; Tool: Couplers Provided
Low Pressure INPUT SIDE	-	-	-
Input Pressure (Bar)	152	-	-
Input Flow (lpm)	15-30	-	-
Max Back Pressure (Bar)	13.8	-	-
Port Sizes	¾-16 SAE O-Ring (Press & Ret)	-	-
High Pressure OUTPUT SIDE	-	-	-
Output Flow	574 cc/min	-	-
Output Pressure (Bar)	700bar	-	-
Relief Valve Setting (Bar)	700bar	-	-
Port Sizes	¼-18 NPSM (couplers provided)	-	-
Fast Advance Flow	5,248 cc/min	-	-
Weight (kg)	4.7 (Dry with couplers)	1.4	1.3
Length (m)	142	240	190
Width (mm)	101	44	44
Height (mm)	101	89	89

LOW PRESSURE HOSES

LOW PRESSURE HOSES, COUPLERS AND ACCESSORIES

FEATURES

The NRP Jones B098 3m twinline non-conductive hose assemblies are specifically manufactured for use with hydraulic tools, including hydraulic impact wrenches, hydraulic chainsaws, low-pressure hydraulic compression tools, hydraulic tampers, hydraulic breakers etc.

These hose assemblies are extremely flexible and will not kink like thermoplastic hoses can. NRP Jones B098 hose assemblies meet or exceed SAE100-R7 standards in relation to impulse testing, static burst pressure and electrical conductivity. Available fitted with male & female flush face hydraulic couplings on both ends of the twinline hose assembly.

Model No	B098	B098/FF
Length (m) *	3	
Hose ID (mm)	10	
Hose OD (mm)	19	
Rated WP (Bar)	155	
Min Burst (Bar)	620	
Min Bend Radius (mm)	125	
Temp Range (°C)	-40c TO +93c	
Tube	Oil Resistant Nitrile	
Reinforcement	Non-Conductive Textile Braid	
Cover	Orange Oil, Abrasion & Weather Resistant NBR/PVC	
Test Results	75,000 V per 300mm for 3min	
Wt (kg)	2.05	2.65
End Connections	3/8" NPT Male Both Ends	Flush Face Couplings – Male & Female Each End (Male # FF372-6FP & Female # FF371-6FP)



B098 (Threaded Ends – No Couplings)



B098/FF (Threaded ends with Couplings Attached)

* OTHER LENGTHS SPECIALLY MADE TO ORDER

TWIN LINE BRAIDED HYDRAULIC HOSE TO STANDARD SAE 100R1, TYPE AT.

Hose construction is inner tube of oil resistant Nitrile or Neoprene synthetic rubber, a single braid of high tensile steel wire reinforcement and an oil and weather resistant, black, Neoprene or PKR synthetic rubber, MSHA accepted, cover. Application and temperature range is for petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°C to 125°C.

421-803-B12NM/FF	3
421-805-B12NM/FF	5
421-810-B12NM/FF	10

Hose has ½" NPT fittings but supplied with flush face couplings.
* Any size length available



BAG FOR HOSE

Model No.	Description	Colour	Dimensions (mm)
2630	Hose Storage Bag (Keeps hose safe from damage and UV exposure)	Yellow	432 x 470 x 89



IVECO DAILY & TRIDENT 'COMBI' (MADE IN ITALY)



TRIDENT 'COMBI' HYDRAULIC MULTI POWER GROUP

DAILY is well known to be a real “gladiator of the road”, is a working vehicle robust, reliable, manoeuvrable, and made with a quality without compromises

Today **DAILY** can give more !!! Its versatility is widely increased thanks to the new TRIDENT COMBI multi power group produced by DOA srl.

DAILY all alternative vehicle with PTO option equipped with TRIDENT COMBI becomes a modern versatile machine that can generate in autonomy ELECTRIC, PNEUMATIC & HYDRAULIC ENERGIES, every where at a low cost .

TRIDENT COMBI can be installed after the purchase as modules are “retrofit type”

What is **TRIDENT COMBI**?

TRIDENT “COMBI” is a hydraulic accessory for DAILY formed by three parts/modules that allows to obtain at low cost and everywhere. electric, pneumatic and hydraulic energies exploiting the hydraulic primary energy produced by the vehicles engines.

TRIDENT “COMBI” is formed and divisible in three compact modules that can be easily installed on board transforming **DAILY** from normal transportation vehicles into a professional working equipment that is powerful, quiet, versatile, economical and with minimal maintenance needs.

What are the typical applications?

TRIDENT “COMBI” is ideal in all external maintenance activities:

- maintenance of gas and water networks - municipalities
- service vehicles – mobile workshops – towing trucks
- military and civil protection organisations
- vehicles used for operations in remote areas
- excavators and earth moving, agricultural and mining machinery

How it is made?

TRIDENT COMBI is formed by three modules :

IVECO DAILY & TRIDENT 'COMBI' (MADE IN ITALY) Continued



THE HYDRAULIC MODULE that is the main primary part that gives the hydraulic energy to the other two components and is formed by : the oil tank, diverter oil valve, maximum pressure valve, oil radiator with electric fan, oil filter, quick couplings and the electric control panel with selection switches of the three functions and emergency arrest button. This module can be installed as single part to obtain hydraulic energy only for hydraulic hand tools like breakers, water pumps, disc saws etc

The **GENERATOR /WELDER MODULE** (optional part, tri/single phase version, power, sockets and characteristics available in more configurations to be chosen)

The **COMPRESSOR MODULE** (optional part, three models air flow 400-600-1400 L/ min and other characteristics to be chosen)

The three modules can be installed in different position and also separate, are connect by oil hoses, a 12 volt electric circuit complete the group,

The use of the three functions (one at the time!) can be chosen by acting on the selection switches on control panel

All parts are inside a compact chassis that assures easy positioning in different way on board so the modules can be installed on DAILY in the more adequate position, the modules must then be hydraulically connected with two hoses (one for suction and one for pressure) to the hydraulic gear pump of the vehicle , this will form a real multi purpose power unit powered by the vehicle engines.

What are the advantages?

- Three sources truck mounted at low cost and portable
- The possibility of having current tri/single phase up to 16 KVA
- The possibility of welding at 250 Amps .
- The possibility of generating Air Compressed up to 1400 litres per minute
- The possibility of powering all hydraulic tools at their maximum power (example DAILY can become a dewatering pump to move up to 3000 L/min water)
- Great reduction of weight
- High power and low noise – ideal in suburban areas and night works
- Simplification of the equipment and ideal total utilisation of the vehicle
- Easy to use, with no problems continuously loading/downloading equipment from vehicles
- No need to have other dangerous fuels on board
- Minimal maintenance needs
- No theft of equipment and fuel
- can be reinstalled on other vehicles

How it works?

On the **DAILY** or similar vehicle gear box must be installed on a hydraulic oil pump (this is a accessory is produced by different companies or can be ordered with the new vehicle)

Must be installed in convenient position to the primary hydraulic module, this has to be hydraulically connected by two hoses (suction and pressure) to the hydraulic pump on the gear box

Operator has to stop vehicle (hand brake engaged) and the engine set at the recommended RPM, then you must activate the hydraulic pump by pressing a button, when pump is activated by a connection then the oil pressure is given (in free circulation) to the primary hydraulic module, then the oil is sent to the other two modules and then the oil returns to the primary hydraulic module, nothing is used in this mode, the oil is in free circulation by passing the hydraulic valve on the motors, the engine makes no effort as nothing is working

When the operator selects one of the three operations, by pushing the electric switch located on the primary module, then one of the three energies is now ready to work (one at the time), in this mode the truck engine goes under load and a small change can be felt in the engine speed. The DAILY has the automatic engine speed control, this stabilisation the engine speed when using the accessories,

The operator can now work with his hydraulic, electric or pneumatic tools !!



SUBMERSIBLE PUMPS (MADE IN USA)



Compact Submersible Pump	Submersible Water Pump	Submersible Trash Pump	Submersible Trash Pump
			
Model No. 42191/FF	Model No. 42190/FF	Model No. 42334/FF	Model No. 42192/FF
<ul style="list-style-type: none"> Self-priming, compact, lightweight design with carrying handle. High impact strainer housing. Up to 1,041 lpm. Can draw water down to depth of 45 mm. Can run dry without damage. 	<ul style="list-style-type: none"> High impact strainer housing with carrying handle. Self-priming. Up to 1,514 lpm. Can be run dry without damage. Can draw water down to depth of 51 mm. 	<ul style="list-style-type: none"> Compact, under 300 mm diameter to easily fit into small areas. Self-priming submersible pump can be placed and operated quickly. Passes up to 76 mm solids minimising pump blockage from debris. Can be run dry without damage for longer working life. Carry handle with lifting eye makes it easy to transport, move, lift, and lower. Locking coupler for discharge hose included. Can draw water down to depth of 70 mm. 	<ul style="list-style-type: none"> No clog, self-priming, abrasion resistant impeller pump. Up to 3,407 lpm. Replaceable wear plates, carry handle and can be run dry without damage. 101.6 mm NPT discharge – will pass 76 mm solids. Locking coupler for discharge hose included. Can draw water down to depth of 83 mm.

Refer to accessories for hoses and couplings

SPECIFICATIONS

Style	Compact	Water	Trash	Trash
Model No.	42191/FF	42190/FF	42334/FF	42192/FF
Included Accessories	Flush Face Couplers	Flush Face Couplers	Flush Face Couplers	Flush Face Couplers
System	Open- and Closed-Centre	Open- and Closed-Centre	Open- and Closed-Centre	Open- and Closed-Centre
Capacity	Up to 1,041 lpm at 3m head height	Up to 1,514 lpm at 4.5m head height	Up to 1,893 lpm at 4.5m head height	Up to 3,300 lpm at 3m head height
Intake Port (mm)	49	38	80	102
Discharge Port (mm)	44mm NPT Female	64mm NPT Female	76.2mm NPT Female	102mm
Strainer	67x43mm – 9.5mm Openings	178x64	-	-
Weight (kg)	4.0	10.6	11.7	26.7
Height (mm)	318mm Over Handle	406 Over Handle	360 Over Handle	400
Width (mm)	190 Diameter	305 Diameter	301 Diameter	368 Diameter
Flow Range (lpm)	19-30	15-30	26.5-37.9	19-34
Operating Pressure (Bar)	0-138	0-138	0-138	0-138
Pressure Port Thread	9/16-18 SAE O-Ring	½" Male NPTF	½" Male NPTF	½" Male NPTF
Return Port Thread	¾-16 SAE O-Ring	½" Male NPTF	½" Male NPTF	½" Male NPTF

ACCESSORIES

Picture						
Model No.	41220	42104	41219	42105	49499	41189
Suits	42191/FF	42191/FF	42190/FF	42190/FF	49334/FF	42192/FF
Description	Discharge Hose Assembly 51mm (2') x 7.62m	Cam-Lock Coupling for Discharge Hose 51mm	Discharge Hose Assembly 63.5mm x 7.62m	Cam-Lock Coupling for Discharge Hose 63.5mm	Discharge Hose Assembly 76mm x 7.62m	Discharge Hose Assembly 102mm x 7.62m

D. WINCHES

D1 – D18

CAPSTAN WINCH – PORTABLE	D1-D2
CAPSTAN WINCH ACCESSORIES – PORTABLE	D3-D4
WINCH USAGE – ROPE TYPE, KNOTS & MAINTENANCE	D4A-D4B
CAPSTAN WINCH – GOODWINCH	D5-D6
ELECTRIC CABLE PULLER – GREENLEE	D7-D8
HYDRAULIC CAPSTAN WINCHES – BLOOM	D9-D10
WINCH SELECTION - OMAC	D11
HYDRAULIC WINCH - 8-10-15kN – OMAC	D12-D14
HYDRAULIC WINCH - 30-50kN – OMAC	D15-D16
MECHANICAL HOIST – TIRFOR – TRACTEL	D17
NOTES	D18

CAPSTAN WINCH – PORTABLE

PORTABLE CAPSTAN WINCHES



PETROL POWERED
**MODEL NO. PCW-5000 &
PCW-5000-HS**



PETROL POWERED
MODEL NO. PCW-3000



230VAC ELECTRIC POWERED
MODEL NO. PCT1800-50HZ-P



PETROL POWERED
**MODEL NO. PCW-5000-AIR
& PCW-5000-AIR-HS**



PETROL POWERED
MODEL NO. PCH-1000

FEATURES

Portable Winch offer FOUR types of Capstan rope Winches with 7 MODELS available.

If you are working away from conventional power sources, or if you need the convenience of having unlimited rope length – indoors or outdoors – you can choose the winch that suits your application.

CAPSTAN WINCH ADVANTAGES

- Unlimited Rope Length
- Constant Pulling Power
- True Power (100% Duty Cycle*)
- Lightweight
- Quickly attached
- Multiple Speed options
- Easy to Use
- Safe
- Powerful
- Reliable

* Except electric model (25%)



Each style of Portable Winch is supplied with a 2.0m strap for anchoring to trees, power poles or any suitable anchor point

CAPSTAN WINCH – PORTABLE

PORTABLE CAPSTAN WINCH



Made In CANADA



PCA-5000 &
PCW-5000-HS



PCH-1000

PCT1800-50HZ-P



MODEL NO.	PCW-3000	PCW-5000	PCW-5000-HS	PCW-5000-AIR	PCW-5000-HS-AIR	PCH-1000	PCT1800-50HZ-P
APPLICATION	PULLING	PULLING	PULLING	PULLING	PULLING	PULLING/LIFTING	PULLING/LIFTING
ENGINE	4-STROKE HONDA (all positions) GX-35 cc	4-STROKE HONDA GXH-50cc		Air Motor: Atlas Copco LZL05 S-NEMA, ATEX Certified Class Ex II 2G T2 IIC D240°C**, Air Consumption at maximum output: 78CFM		4-STROKE HONDA GXH-50cc	AC ELECTRIC BALDOR TEFC 230VAC-1ph-¾HP
GEAR BOX & GEARS	Aluminium alloy gear box-Heat Treated 3 stage spur gears- Shafts mounted on Ball Bearings-Oil bath Lubricant		Aluminium alloy gear box-Heat Treated 3 stage spur gears - Shafts mounted on Ball Bearings-Oil bath Lubricant				
GEAR RATIO	200:1	110:1	53:1			N/A	N/A
CLUTCH	N/A	N/A	N/A	N/A	N/A	CENTRIFUGAL	N/A
ROPE GRABBING SYSTEM	N/A	N/A	N/A	N/A	N/A	INCLUDED-CAN BE DISABLED	
CAPACITY							
MAX PULL FORCE	700kg (76mm Capstan)	1000 kg	350kg (57mm Capstan) / 350kg (85mm Capstan)	1,021kg (57mm Capstan) / 684kg (85mm Capstan)	502kg (57mm Capstan) / 337kg (85mm Capstan)	775kg	820kg
RATED LIFTING	NOT DESIGNED FOR LIFTING					250kg	250kg
CAPSTAN DRUMS							
INCLUDED	76mm	57mm	85mm	57mm	57mm	57mm (with safety lip)	85mm (with safety lip)
OPTIONAL	N/A	85mm	57mm	85mm	85mm	85mm (with safety lip)	57mm (with safety lip)
TURNS AT IDLE	YES	YES	YES	YES	YES	NO	NO On Electric Motor
SPEED							
57mm DRUM		12m/min	24m/min	7m/min	15m/min	12m/min	7m/min
76mm DRUM	8m/min			-	-		
85mm DRUM	-	18m/min	36m/min	11m/min	22m/min	18m/min	10.5m/min
WEIGHT	9.5kg	16kg	16kg	22kg	22kg	19kg	27kg
WORK CYCLE	CONTINUOUS						25% (15min/hour TO PREVENT MOTOR OVERHEATING)
DIMENSIONS	29cm wide x 26cm high x 35cm long	37cm wide x 37cm high x 37cm long	37cm wide x 37cm high x 37cm long	34cm wide x 33cm high x 43cm long	34cm wide x 33cm high x 43cm long	52cm wide x 36cm high x 38cm deep	48cm wide x 36cm high x 38cm deep
ROPE PULLING	DOUBLE BRAID POLYESTER – UNLIMITED LENGTH						
MIN DIAMETER	10mm						
MAX DIAMETER	12mm	16mm					
ROPE LIFTING	NOT DESIGNED FOR LIFTING					DOUBLE BRAID POLYESTER – UNLIMITED LENGTH	
MIN DIAMETER	12mm						
MAX DIAMETER	13mm						
WARRANTY							
WINCH	PRIVATE USE: 5 YEARS / COMMERCIAL USE: 1 YEAR (NOTE: PCW-3000 PRIVATE USE: 1 YEAR / COMMERCIAL USE: 3 MONTHS)						
MOTOR	HONDA INTERNATIONAL WARRANTY						
ANCHORS INCLUDED OPTIONAL	POLYESTER SLING 60mm X 2.0m SEE BELOW FOR AVAILABLE OPTIONS						
ACCESSORIES	FULL LINE OF ACCESSORIES, REFER NEXT PAGE SERVICE						
SERVICE							



PCW-5000-AIR

(Supplied with foot switch & air
shut off valve for emergency stop)



PCW-3000



(Accessories sold separately -
CASE # **PCA-0102** & BACKPACK
HARNESS # **PCA-0104**)

ALL "PORTABLE WINCH" WINCHES ARE CE CERTIFIED

WINCHES

D

D2

PORTABLE WINCH ACCESSORIES

PORTABLE WINCH ACCESSORIES

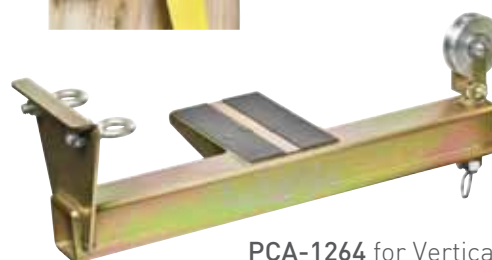


PCH1000 - Petrol Winch shown mounted on **PCA-1264** VERTICAL PULL SUPPORT – used with **PCA-1263** POLE MOUNT, used for LIFTING & LOWERING loads of up to 250kg



PCA-1263 POLE MOUNT

Use with **PCA-1264** or **PCA-1268**



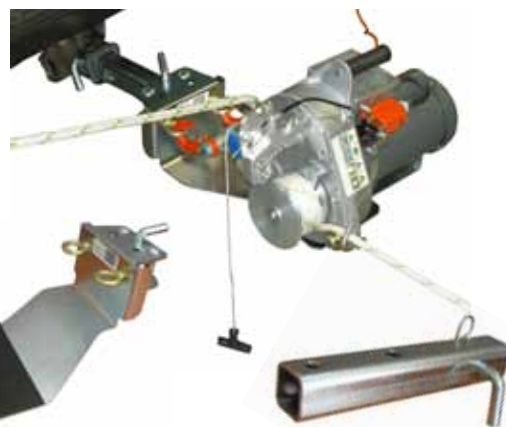
PCA-1264 for Vertical Pull

PCW-5000 Petrol Winch hooked onto a Vehicle Tow Bar using the **PCA-1261** TOW-BALL Hitch



Model No. PCA-1261
TOW-BALL ANCHOR

PCT1800-50HZ-P 230v Electric Winch shown mounted on **PCA-1268** Winch Support Plate with **PCA-1267** square tubing towbar adaptor



Model No. PCA-1268 Winch support plate w/bent pin*

Model No. PCA-1267 Square tubing 50mm w/bent pin*



Model No. PCA-1805 shown with PCH-1000





Model No. PCA-1805
Floor Mount for Portable Winches models
PCW-5000 and PCH1000 only

PORTABLE WINCH ACCESSORIES

PORTABLE WINCH ACCESSORIES







		
Model No.	Suits Winch Model No.	Description
PCA-0100	PCW-5000	Plastic Moulded Carry Case, Water Resistant

		
Model No.	Suits Winch Model No.	Description
PCA-0340	PCW-5000	Heavy Duty, High Quality, Foam Filled, Waterproof Case with removable casters
PCA-0350	PCH-1000 & PCT-1800	

Capstan Drum	
	
Model No. PCA-1100 85mm CAPSTAN DRUM with rope guide	
	
Double Braided Poly Rope*	
Model No. PCA-1213M 13mm x 100m Model No. PCA-1214M 13mm x 150m Model No. PCA-1216M 13mm x 200m	

* Rope rated 3,674kg MBS (Minimum Break Strength & not supplied with eyes, refer pages D4A-D4B)

Polyester Sling	Spark Arrester	Rope Bags
		
Model No. PCA-1258, 50mm Polyester Sling, Length 3.1m	Model No. PCA-1151, Spark arrestor for Honda Engine	Model No. PCA-1256 – Medium (w/shoulder straps) Holds 100m Model No. PCA-1257 – Large Holds 150m Model No. PCA-1257XL – X/Large Holds 200m (Capacity calculated with 12mm rope)
Heck Pack	Heck Pack Support Plate	Skidding Cone
		
Model No. PCA-1266, Heck Pack for 50mm Tow-Ball	Model No. PCA-1265, Winch Support Plate for Heck Pack	Model No. PCA-1290, Skidding Cone, up to 50cm diameter logs

Snatch Blocks – Stainless Steel		Self Locking Pulley Aluminium	
			
Model No. PCA-1274 1 x 100mm OD AL Sheaves	Model No. PCA-1273 2 x 100mm OD AL Sheaves	Model No. PCA-1272 2 x 62mm OD AL Sheaves	Model No. PCA-1271 1 x 62mm OD AL Sheaves

WINCH USAGE



WINCH USAGE – ROPE TYPE, KNOTS & MAINTENANCE

WINCH USAGE

Most winching situations present **POTENTIAL DANGERS!** Stay out of the winch line's path.



ROPE TYPE

Use only **low stretch** rope. We recommend using double-braided polyester rope with a minimum diameter of 10 mm (3/8"). Maximum rope diameter is 16 mm (5/8"). For most situations, we recommend using 12 or 13 mm (1/2") DBP rope. Please contact us for other rope types suitability.

DO NOT USE 3-STRAND POLYPROPYLENE YELLOW ROPE!

- Polypropylene and polyethylene ropes are dangerous for winching because of their great elasticity and low melt point.
- Make sure the rope is not damaged and that it offers an adequate resistance to pull the load.



STRETCH EQUALS DANGER!

- A stretched rope can recoil and cause serious burns as the rope leaves your hand.
- All ropes stretch: a longer one more than a shorter one. The more you pull, the more it stretches.
- A stretched rope can also move the load in an unpredictable or dangerous way.
- A stretched rope can recoil and bring your hand towards the winch causing severe injuries.



NEVER WRAP THE ROPE AROUND YOUR HAND.

Always wear **GLOVES**.



ROPE MAINTENANCE

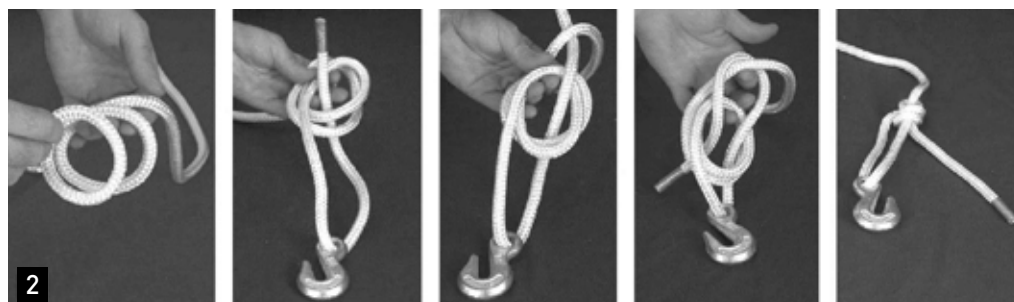
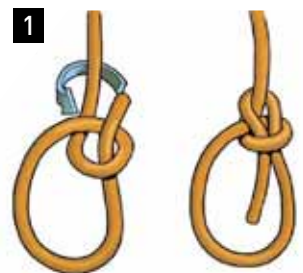
Visually inspect your rope before each usage. If it shows any sign of deterioration (cut strands, excessive abrasion), replace it. If your rope is dirty, wash it. Dirty ropes deteriorate faster and cause premature wear of the capstan drum and rope guide.



AT THE END OF THE ROPE - RECOMMENDED KNOTS

You have to attach the load to the end of the rope. Even if a simple knot can do the job, we recommend the installation of a hook with the bowline knot (figure 1 on the right) because it can be easily undone if you need to change the hook. Moreover, it retains about 70% of the rope's capacity while most knots will reduce it by more than 50%.

Even better, the double bowline knot (figure 2 below) will keep about 75% of your rope's



capacity.

RECOMMENDED HOOKS

If you usually pull with a choker chain, use a grab hook (figure 1) or grab hook with latch (figure 2). If you usually pull a sling or a ring, use a safety hook with latch (figure 3).



WINCH USAGE – ROPE TYPE, KNOTS & MAINTENANCE



MODEL NO. 1010
(RATED 15kN)

WINCH ANCHOR

OPTION 1: In most cases, the winch is anchored to a fixed point using the polyester sling or with optional anchoring devices and the rope end is tied to the object you want to move. The load is moving towards the winch when you pull the rope.

OPTION 2: Alternately, the winch can be anchored to the load that needs to be moved and the rope end is tied to a fixed point. The winch and the load are therefore pulled toward the fixed point where the rope end is tied. This method is useful when you need to guide the load while you operate the winch.



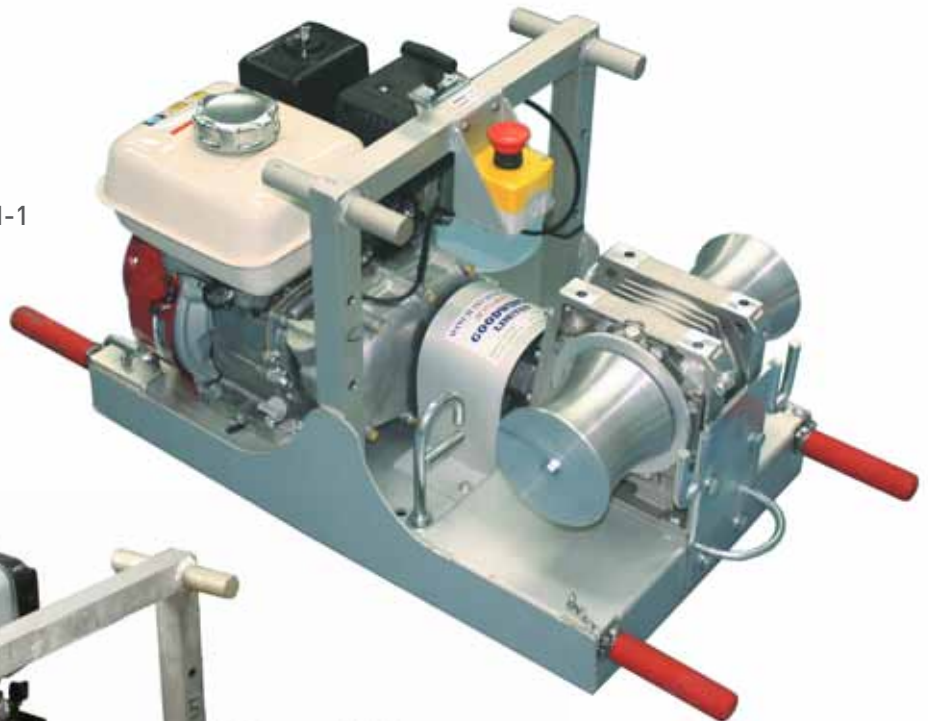
PORTABLE WINCH-PETROL/DIESEL

PORTABLE WINCH-PETROL/DIESEL

GOODWINCH

PETROL WINCH
MODEL No. "GOODWINCH"

ALSO AVAILABLE WITHOUT ROPE
CLUTCHES Model No. GOODWINCH-1



DIESEL WINCH
MODEL No. "GOODWINCH-DIESEL"

FEATURES

- Safe, infinitely controllable pulling, holding, and lowering with the Goodwinch Portable Petrol or Diesel Twin Capstan Winch.
- Variable speed from hold, through creep to a full speed of approx. 25 metres per minute.
- Ideal for pulling cables through ducts, raising portable buildings, clearing debris from rivers, lakes and canals, forestry work, and general rope rescue work, etc.
- Work from either side or run two ropes together to halve the load.
- Two rope clutches (not shown) are included as standard on both models and are used for load holding during lowering or raising loads on transmission towers and similar structures.
- High quality engineering and design. Reliable, easy to start Honda (4 kW) engine (or Subaru (4 kW) diesel engine) with a centrifugal gearbox driving the main capstan gearbox and aluminium bollards through a flexible coupling.
- Aluminium frame, two man lift, removable handles for easy storage.

WINCH-PETROL/ DIESEL PORTABLE

PORTABLE WINCH-PETROL/DIESEL

GOODWINCH

MODEL NO.	GOODWINCH	GOODWINCH-DIESEL
SPECIFICATIONS	Honda Petrol Engine	Subaru Diesel Engine
Twin Capstans	Aluminium, 100mm Dia	Aluminium, 100mm Dia
Capstan Gearbox	Worm and Wheel, 30:1 ratio	Worm and Wheel, 30:1 ratio
Flexible Coupling	Rubber Anti-Vibration	Rubber Anti-Vibration
Main Engine Gearbox	Centrifugal 2:1 ratio	Centrifugal 2:1 ratio
Engine	4kW 4 stroke	4kW Diesel (optional)
Base Construction	Anodised Aluminium fabrication	Anodised Aluminium fabrication
Removable Lifting Handles	Bright zinc plated steel, rubber covered	Bright zinc plated steel, rubber covered
Anchor Points	Fitted test shackles	Fitted test shackles
Rope Tie Offs	Built in at top of main handle	Built in at top of main handle
PERFORMANCE	Honda Petrol Engine	Subaru Diesel Engine
Easy start	Manual Choke	Manual Choke
Method of starting	Recoil Starter	Recoil Starter
Emergency Stopping	Top mounted cut off switch	Top mounted cut off switch
Engine Speed Control	Throttle lever	Throttle lever
Running Time, half throttle	Approximately two hours	Approximately two hours
Load Retrieval Speed	Creep to 25m per minute	Creep to 25m per minute
Pulling Capacity	Maximum 1000 kgs	Maximum 1000 kgs
Raising Capacity	Maximum 300 kgs	Maximum 300 kgs
Recommended Rope	14.3mm (9/16") double braided poly.	14.3mm (9/16") double braided poly.
Suitable Rope Length	As required, no maximum	As required, no maximum
DIMENSIONS	Honda Petrol Engine	Subaru Diesel Engine
With Handles Removed	65cm long x 39cm wide x 42cm high	65cm long x 39cm wide x 42cm high
Approx. Overall Weight	50kgs	59kg



WINCHES

D

CABLE PULLERS – ELECTRIC

ELECTRIC CABLE PULLERS



Model No. 00812
VersiBoom Package Shown



Model No. 00814 Puller Shown

FEATURES

- Pull heavy loads with minimal operator effort.
- Force Gauge included to constantly monitor the pull.
- Right-angle sheave allows the operator to stand out of the direct line of force.
- Audio alarm high force warning and circuit breaker shut off at maximum force for added safety.
- Tapered capstan and patented rope guidance system for better control of the rope when feeding onto the capstan.
- Runs off mains single phase power electric motor, 230VAC 50Hz
- Patented.
- Direct gear drive.

OPTIONAL EXTRAS

- Mobile Versi-Boom system provides fast and easy set up with no anchors to set or chains to mount.
- Easy to move around job site with mobile carriage .
- Unique floor mounting attachment for quick, reliable setup.

Model No	Greenlee Cat. No.	Description	Pulling Force (kN)	
			MAX	Continuous
31466	6001-22	Super Tugger Package & Chain Mount^	28.9	20.0
00369	6806-22	UT8-22 Ultra Tugger 8 Package & Mobile VersiBoom II	35.8	28.9
03196	6800-22	UT8-22 Ultra Tugger 8 Package & Floor Mount	35.8	28.9
00812	6906-22	UT10-22 Ultra Tugger 10 Package & Mobile VersiBoom II	35.6/44.5*	28.9
00814	6900-22	UT10-22 Ultra Tugger 10 Package & Floor Mount	35.6/44.5*	28.9
00813	6901-22	UT10-22 Ultra Tugger 10 Package & Chain Mount	35.6/44.5*	28.9
00829	UT10-22	UT10-22 Puller Assembly	35.6/44.5*	28.9
00553	MVB	Mobile VersiBoom II Package	-	-

*Momentary Maximum Pull Force of 44.5kN for 28.9 – 35.6kN This is achieved with machine 15 minutes ON and 15 minutes OFF

^ Floor mount available, Model No. 35605



Model No. 07120
Replacement
Force Gauge

ELECTRIC CABLE PULLERS (CONTINUED)



Model No			31466	00369	03196	00812	00814	00813	00829	MVB
Pulling Force (kN)		Max	28.9	35.8		35.6/44.5 ¹				-
		Continuous	20.0	28.9		28.9				-
Pulling Speed		Load / Metres per Minute	None/5.0	None/2.7		None/4.9				-
			8.8/3.4	8.9/3.4		8.9/4.3				-
			17.9/2.3	17.8/2.3		17.8/3.6				-
			26.7/1.8	26.7/1.8		26.7/2.1				-
			-	-		35.6/1.83				-
Drive Motor (kW)			1.1	1.1		1.1				-
Rope*(mm OD/kN)			19.1/115.6	22.2/142.0		22.2/142.0				-
Dimensions - Main Motor Unit (mm)		Length	527	292		813				1194
		Width	572	660		305				1067
		Height	305	215		305				1219
Tugger Weight (kg)			49	39		49				146
-	-	Force Gauge	✓	✓	✓	✓	✓	✓	✓	
00865	00865	Floor Mount			✓	✓	✓			
02846	02846	Chain Mount	✓					✓		✓
00870	00870	Wheeled Carriage		✓						
VersiBoom Package				✓		✓				✓

* Rope is a critical link in pulling operations, use only manufacturer recommended double braided composite rope.

¹ Momentary maximum pull force of 44.5kN. For 28.9-35.6kN this is achieved with machine 15 minutes on, 15 minutes off.

² Two speed motor, values are for high speed. On low speed 26.7kN = 2.13m and 35.6kN = 1.83m.

³ Contact us for details of the parts of the VersiBoom kit for UT5

Model No. 00813



Model No. 00814



HYDRAULIC CAPSTAN WINCHES

HYDRAULIC WINCHES



SERIES 1000 AND 1100V

Applications

Lifting	Pulling Sliding
Positioning Lights	Underground Cable
Mast Towers Erection	Cable Pulling
Lifting Materials	Unloading Equipment
Overhead Lines	Utility Vehicle Recovery Water
Transformer Replacement	Sewer Pipelines

Optimum performance on 140 Bar Hydraulic System

682kg Capacity on 10:1 Ratio, 33m/min
1,363kg Capacity on 20:1 Ratio, 17m/min



Series 1000 Gal



Series 1100V Gal



Series 1000
Dual Capstan Gal



Series 1000 Gal

STANDARD FEATURES

GEAR CASE	Made of high strength cast iron. Completely sealed for oil enclosed operation and to keep dirt out
WORM SHAFT	One piece alloy steel hardened and ground to insure long service.
WORM GEAR	High tensile aluminium-nickel alloy bronze. Use of optimum lead and pressure angles transmit maximum power to the drum efficiently.
GEAR RATIO	20:1 and 10:1 ratios provide optimum efficiency in power and speed.

BEARINGS	Worm gear and worm shaft run on tapered roller bearings in an oil enclosed gear case.
OUTPUT SHAFT	38mm diameter heat -treated alloy steel minimum tensile strength 10,546kg/Force per sq/metre
CAPSTAN	Cast aluminium -keyed to shaft.
MOTOR MOUNT	SAE(A) 2-bolt flange. 25.4mm woodruff keyed motor shaft. Motor is directly coupled into worm shaft. No separate coupling required.

HYDRAULIC WINCHES

SERIES 1400

For the Utility Industry
HYDRAULIC CAPSTAN
WINCHES



Series 1400 Gal

Optimum performance on 207Bar Hydraulic System



FAST DEPENDABLE BLOOM WINCHES

- High strength cast iron gear case, with aluminium capstans keyed to alloy steel hardened shafts
- 25:1 and 12.5:1 gear ratios provide versatility in power and speed
- Speeds of up to 30 MPM and pulls of 3,500KG

CUSTOMISED DESIGNED UTILITY WINCHES AND CAPSTANS



Series 1200C

- Reliable Winches designed for Lifting and Pulling applications..
- Optional Hydraulic Fail-safe and Oil Cooled Disc Brakes available
- Variety of Motors and drums for optimised performance in Utility applications
- Speeds of up to 30 MPM and Line Pulls of 3,500KG pounds



Series 1000KC Gal

WARNING!

- Goods are not intended for use in the moving or lifting of persons! The winches described herein are neither designed nor intended for use or application to equipment used in the lifting or moving of persons and it is understood that all such use shall be at the sole risk of the user. The cable clamps on winches are not designed to hold rated loads. A minimum of 5 wraps of cable must be left on drum barrel to guarantee holding of rated load.
- Applications of winch where life would be endangered by any event are not recommended

OMAC WINCH SELECTION

HYDRAULIC WINCHES



Suitable for pulling or hauling applications in various industries such as utility (Pulling draw wires, lifting insulator strings up towers, underground cable, etc) and associated industry (Telecommunication and railways). More units available upon request and some features and performances of are able to be modified on request.

Performances of the machines listed are without optional devices, at sea level and at a temperature of 20°C. Dimensions and weights are also shown without optional devices. Information may change without notice due to continual research, development and improvement. Images and drawings are indicative only.



OMAC Model No.	MAX ROPE (mm)	MAX ROPE CAP (m)	POWER (kW)	Page Ref #	CAPACITY (kN)
F 202.P.08	6	200	1.5	D12	8
F 203.10	8	300	5.8	D13	8 (on the middle layer)
F 206.10	10	500	5.8	D14	10 (on the middle layer)
F 207.25	10	700	19.0	D15	30 (on the middle layer)
F 210.50	16	400	35.0	D16	55

OMAC HISTORY

Established in 1954 by Mr. Luigi Consonni OMAC now consists of two companies;

OMAC s.n.c. designs, produces and commercialises a huge range of machines and equipment suitable for overhead stringing and underground pulling or stringing conductors, wires, cables for electrical utilities, telecommunications and railways.

The specialisation of OMAC products includes the stringing of overhead transmission lines as well as the laying of underground conductors, high and low tension, copper and aluminium conductor, as well as the optical fibre (OPGW).





OMAC's experience and flexibility of production allows them to customise machines for special purposes, designed on the specific needs and requirements of the customer.

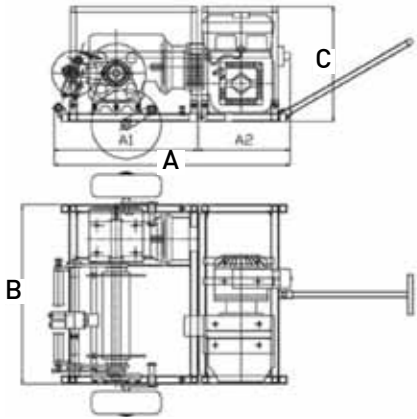
The large number of OMAC machines working today in many countries worldwide is a testament to their reliability and quality.

Over 40 years of experience in manufacture!



MODEL NO. F 202.P08 HYDRAULIC WINCH

 Max Rope Diameter (mm OD)	 Drum Capacity (m)	 Electrical Engine Power (kW)	 Max Continuous Pull Force (kN)
6	200	1.5	8



Model No. F 202.P.08

A x B x C = 0.88 x 0.43 x 0.66m
Weight (without rope) = 120kg

Hydraulic winch suitable for pulling one rope in service operations and pulling underground cables. The winch is modular with 2 parts. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- Idle device allows the drum to be free- wheeled.
- Automatic and twisting rope winder, controls rewind of the 6mm diameter rope.
- Dynamometer for reading the pull force.
- Irreversible reduction unit.
- Detachable wheels and drawbar for hand moving.
- Fittings for anchoring the machine.
- Rope-driver roller fit for vertical and horizontal pull.
- Demountable protective frame constructed of tubular steel.

OPTIONAL DEVICES

- 029.3 Air cooled petrol engine 3.3kW.
- 035 Maximum pull device which stops the machine if the preselected load is reached.
- 035.1 Maximum pull device which stops the machine and sounds and alarm if the preselected load is reached.
- 046.3 Rope-presser roller on the drum.
- 074.2 Steel rope 6 mm diameter, 200 m length.
- 078.1 Flexible hose with quick couplings to separate the power unit for the winch unit (5m length).
- 088 Low tension (48V) via-cable (5 m) control of the electric motor, with START/STOP push buttons.
- 090 Single-phase electric motor.

TECHNICAL



DRUM & ROPE

Bottom diameter 100mm
DRUM CAPACITY
200m rope 6mm OD

ELECTRIC MOTOR

230VAC - 50 Hz
Power 1.5kW
Cooling Air
Protection IP55

PULL PERFORMANCES

On the middle layer of rope
Max pull 8kN
Speed at max pull 6m/min
Max speed 30m/min
Pull at max speed 2kN





DIMENSIONS OF MODULES

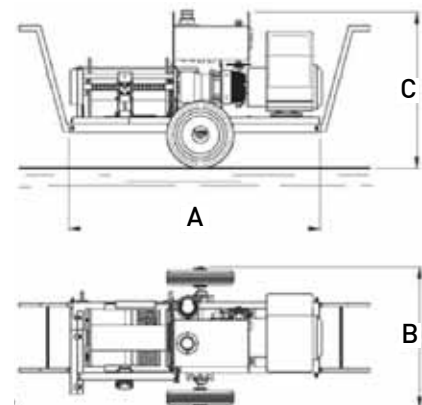
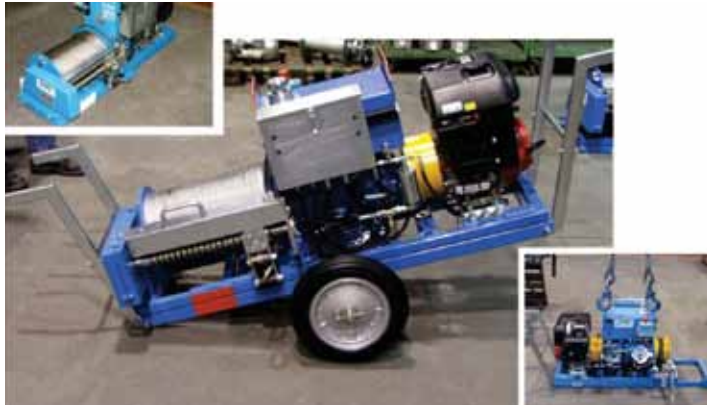
Pulling module
Dimensions LxWxH 0.54 x 0.43 x 0.66 m
Weight 65kg
Power module
Dimensions LxWxH 0.34 x 0.43 x 0.66 m
Weight 55kg

HYDRAULIC WINCH

MODEL NO. F 203.10 HYDRAULIC WINCH



 Max Rope Diameter (mm OD) 8	 Drum Capacity (m) 300	 Petrol Engine Power (kW) 5.8	 Max Continuous Pull Force (kN) 8/15
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Model No. F 203.10

A x B x C = 1.20 x 0.55 x 0.60m
Weight (without rope) = 190kg

Hydraulic winch suitable for pulling one rope in service operations such as setting up, tensioning of transmission lines and pulling underground cables. The winch is modular with 3 parts. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- Steel drum.
- Automatic rope winder with idle device for manual operation.
- Dynamometer for reading the pull force.
- Safety hydraulic negative brake.
- Rigid axle with drawbar and tyres.
- Fittings for anchoring the machine.
- Rope-driver rollers fit for vertical and horizontal pull.
- Oil cooler fan.

OPTIONAL DEVICES

- 029.2 Electric start.
- 035.1 Maximum pull device which stops the machine and sounds an alarm if the preselected load is reached (Requires opt. 029.2).
- 045.5 Manual holdfast for locking the rope. It can be used with optional capstan (Refer opt. 058.1)
- 058.1 Large groove capstan mounted on the motorised hydraulic group (instead of the drum).
- 074.2 Steel rope.

TECHNICAL



DRUM & ROPE

Bottom diameter	150mm
External diameter	325mm
Width	420mm

DRUM CAPACITY

300m steel rope 8mm OD
600m steel rope 6mm OD

ENGINE

Petrol	
Power	5.8kW
Cooling	Air
Start	Rope





PULL PERFORMANCES

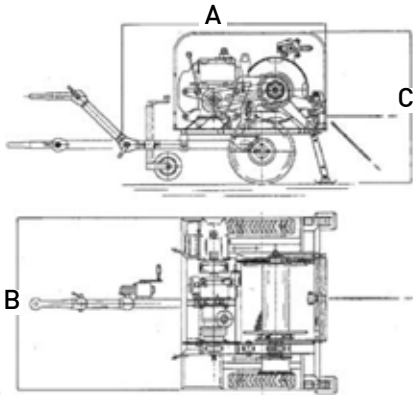
On the middle layer of rope	
Max-pull	8kN
Speed at max pull	15m/min
Max speed	40m/min
On the first layer of rope	
Max-pull	15kN
Speed at max pull	8m/min
Max speed	30m/min

Also suitable for Underground cable pulling.



MODEL NO. F 206.10 HYDRAULIC WINCH

 Max Rope Diameter (mm OD)	 Drum Capacity (m)	 Petrol Engine Power (kW)	 Max Continuous Pull Force (kN)
10	500	5.8	10



Model No. F 206.10

A x B x C = 1.20 x 1.15 x 0.85m
Weight (without rope) = 350kg

Hydraulic winch suitable for pulling one rope in service operations such as setting up, tensioning of transmission lines and pulling of underground cables. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- Detachable drum.
- Automatic swinging rope-winder with idle position for manual operation.
- Dynamometer to read the pulling force
- Safety hydraulic negative brake.
- Freewheeling of the drum.
- Rigid axle with tyre and drawbar.
- Stabilisers and attachments for anchoring.
- Rope-driver rollers fit for vertical and horizontal pull.
- Oil cooling fan.

OPTIONAL DEVICES

- 003 Axle with independent torsion bar suspensions and tyres for towing on the road at 60 km/h, with mechanical parking brake.
- 026 PVC cloth cover.
- 027 Metal cover with doors.
- 029.2 Electric start.
- 035 Maximum pull device which stops the machine if the preselected load is reached
- 035.1 Maximum pull device which stops the machine and sounds and alarm if the preselected load is reached
- 056.4 Service steel capstans beside the drum.
- 065 Automatic clamp for rope on side capstan.
- 074.2 Steel rope, diam. 8 or 10 mm, length on request.
- 086 Conical detachable drum with mobile side for ease of rope removal.

TECHNICAL



DRUM & ROPE

Bottom diameter	200 mm
External diameter	500 mm
Width	500 mm

DRUM CAPACITY

800m rope @ 8mm OD
500m rope @ 10mm OD

ENGINE

Petrol	
Power	5.8 kW
Cooling	Air
Start	Rope

PULL PERFORMANCES





On the middle layer of rope	
Max -pull	10kN
Speed at max pull	12m/min
Max speed	40m/min
Pull at max speed	4kN
On the first layer of rope	
Max-pull	15kN
Speed at max pull	8m/min
Max speed	30m/min
Pull at max speed	5kN

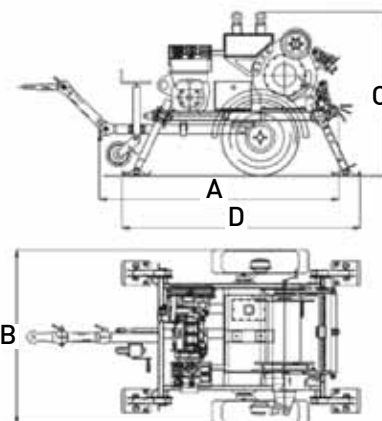
Also suitable for Underground cable pulling

HYDRAULIC WINCH

MODEL NO. F 207.25 HYDRAULIC WINCH

OMAC
ITALY

			
Max Rope Diameter (mm OD)	Drum Capacity (m)	Diesel Engine Power (kW)	Max Continuous Pull Force (kN)
10	700	19	30



Model No. F 207.25

A x B x C = 1,70 x 1,50 x 1.35m
Weight (without rope) = 850kg

Hydraulic winch suitable for pulling one rope in service operations such as setting up, tensioning of transmission lines and pulling underground cables. Direct pull on the drum. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- Idle device allows the drum to be free- wheeled.
- Automatic swinging rope-winder with idle position for manual operation.
- Machine control panel with dynamometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Rigid axle with tyres and drawbar fit for towing at low speed in workplace.
- Stabilisers and attachments for anchoring.
- Rope-driver rollers fit for vertical and horizontal pull.
- Oil cooling system.

OPTIONAL DEVICES

- 007 Amortised axle, overrun brake and drawbar for towing on the road (Registration excluded).
- 026 PVC cloth cover.
- 027 Metal cover with doors.
- 028.1 Water cooled diesel engine.
- 037 Removable control lever with 10 m of cable.
- 038 Radio-control for remote control.
- 046.3 Rope-presser roller on the drum.
- 056.4 Service steel capstans beside the drum.
- 058 Service winch with large-groove capstan (160 or 200mm OD) fed by the hydraulic circuit of the puller. Max pulling force 1000kg.
- 064 Device to control the load descent in case of diesel engine breakdown.
- 074.2 Steel rope.
- 090.2 Electric motor instead of diesel engine, power: 9kW (NOTE: with this motor, the speed obtained is lower).
- 097.1 Hydraulic device to allow a loadless speed of 100m/min

TECHNICAL



DRUM & ROPE

Bottom diameter 270mm
Optional capstan diameter 160mm

DRUM CAPACITY

700m rope 10mm OD (Max length)
500m rope 10mm OD (Suggested length)

ENGINE

Diesel
Power 19kW
Cooling Air
Electric system 12VDC





PULL PERFORMANCES

on the middle layer of rope
Max pull 30kN
Speed at max pull 15m/min
Max speed 70m/min
Pull at max speed 6kN

Also suitable for pulling
Underground cables

MODEL NO. F 210.50 HYDRAULIC WINCH



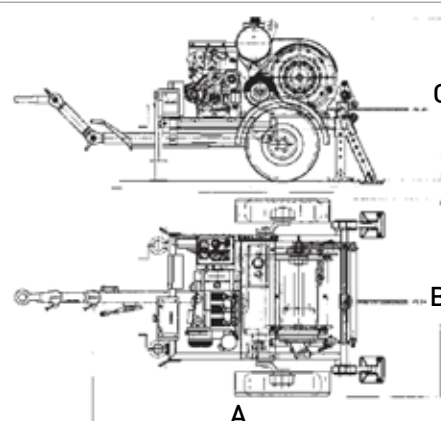
			
Max Rope Diameter (mm OD)	Drum Capacity (m)	Diesel Engine Power (kW)	Max Continuous Pull Force (kN)
16	500	35	50



Model No. F 210.50 shown with optional accessories



Model No. F 210.50 shown with option 027 (Refer below)



A x B x C = 2.25 x 1.80 x 1.50 m
Weight (without rope) = 1600 kg

Hydraulic winch suitable for pulling one rope in service operations such as setting ups and tensioning of transmission lines and pulling underground cables. Direct pull on the drum. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- Steel drum.
- Automatic swinging rope-winder with idle position for manual operation.
- Machine control panel with dynamometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Rigid axle with tyres and drawbar fit for towing at low speed on worksite.
- Stabilisers and attachments for anchoring.
- Rope-driver rollers fit for vertical and horizontal pull.
- Oil cooling system.

OPTIONAL DEVICES

- 007 Amortised axle, overrun brake and drawbar for towing on the road (registration excluded).
- 011.1 Auxiliary hydraulic circuit to control separate equipment.
- 026 PVC cloth cover.
- 027 Metal cover with doors.
- 028 Silenced diesel engine.
- 028.1 Water cooled diesel engine.
- 037 Removable control lever with 10 m of cable.
- 038 Radio control for remote control.
- 046.3 Rope-presser roller on the drum.
- 064 Device to control the load descent in case of diesel engine breakdown.
- 069.2 Electronic recorder of pulling force values RES.
- 069.3 Equipment to connect the electronic recorder RES (opt. 069.2).
- 074.2 Steel rope.
- 097.1 Hydraulic device allowing a loadless speed of 90 m/min.

TECHNICAL



DRUM & ROPE

Bottom diameter	370 mm
Drum capacity	400m rope 16mm OD
or	500m rope 14mm OD
or	700m rope 12mm OD

ENGINE

Diesel	
Power	35 kW
Cooling system	air
Electric system	12 V

PULL PERFORMANCES

Max pull	55 kN
Continuous pull	50 kN @ 22 m/min
	20 kN @ 45 m/min
Max speed	50 m/min
(Values refer to the medium diameter)	

Also suitable for pulling Underground cables

MECHANICAL HOISTS

D WINCHES

TIRFOR HOISTS



Tirfor® machines are portable manual hoists used with maxiflex wire rope. They can be used to lift, pull and position loads over great distances depending on the wire rope length. They are suitable for use in numerous configurations and are the ideal solution for use in professional applications; they are operated by a simple lever Option: the load capacity of the Tirfor® system can be increased by using sheave blocks.

Portable hoist to lift and pull loads, for utilisation in numerous configurations with longer cable lengths available upon request.

FEATURES

- Low weight—quick installation
- No limitation in terms of cable length
- Manageable, light-weight, robust, powerful
- Increase load capacity with deflection sheaves
- Overload protection
- Precise load placement within millimetres



T Series



TU Series

Model No	WLL (kg)	Wt (kg)	Wire Rope Wt @ 20m (kg)	Rope (mm) OD	Wire Rope UTS (kg)	Dimensions (mm) LxWxH	Handle Dimensions (mm) Open/Closed	Rope 20m & Reeler Model No.
T-508D	800	6.6	6.1	8.3	4,000	420x250x59	690/400	1959
T-516D	1,600	13.5	13.1	11.5	8,000	530x315x127	1150/650	2059
T-532D	3,200	24.0	26.6	16.3	16,000	620x355x130	1150/650	2379
TU-8	800	8.4	6.1	8.3	4,000	527x265x108	770-510	-
TU-16	1,600	20.0	13.1	11.5	8,000	660x330x140	1190-680	-
TU-32	3,200	27.0	26.6	16.3	16,000	676x330x156	1190-680	-

* NOTE: Hydraulic operated Tirfor hoists are also available in 1600 and 3200kg capacities.

NOTES

[illegible]

D WINCES

E. UNDERGROUND PULLING

E1 – E54

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SOCK GRIPS

CABLE GRIPS FOR UNDERGROUND APPLICATION (MADE IN AUSTRALIA)

These Sock Grips are manufactured with only the highest quality materials and most strict manufacturing guidelines to produce the industry benchmark in cable pulling grips.

Cable grips are also referred to as cable stockings, cable pullers, cable socks, wire rope pulling grips and woven grips

C1 SERIES – STANDARD TUBULAR CABLE GRIP

Model No	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)*
C1010	10-14	350	5	1.6
C1014	14-19	400	9	3.0
C1019	19-28	500	15	5.0
C1028	28-40	600	24	8.0
C1040	40-55	800	35	11.6
C1055	55-75	900	62	20.6
C1075	75-95	1000	98	32.6
C1095	95-120	1200	133	44.3

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

C3 SERIES – STANDARD TUBULAR CABLE GRIP

Model No	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)*
C3010	10-14	350	5	1.6
C3014	14-19	400	9	3.0
C3019	19-28	500	15	5.0
C3028	28-40	600	24	8.0
C3040	40-55	800	35	11.6
C3055	55-75	900	62	20.6
C3075	75-95	1000	98	32.6
C3095	95-120	1200	133	44.3
C3120	120-150	1400	187	62.3
C3150	150-190	1600	283	94.3

S3 SERIES – LACE UP GRIP

Model No	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)*
S3014	14-19	400	9	3.0
S3019	19-28	500	15	5.0
S3028	28-40	600	24	8.0
S3040	40-55	800	35	11.6
S3055	55-75	900	62	20.6
S3075	75-95	1000	98	32.6
S3095	95-120	1200	133	44.3
S3120	120-150	1400	187	94.3

TG SERIES – TRIPLEX

Model No	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)*
TG2840-1000	3 x 28-40	1000	24	8.0
TG4055-1000	3 x 40-55	1000	35	11.6

*NOTE: WLL (Working Load Limit) 3:1 recommended as a guide only

REFER PAGE F18 FOR FITTING INSTRUCTIONS



DETAIL

- Two Ply
- Galvanised Strand
- Alloy Ferrule
- Soft Eye
- Single Leg



DETAIL

- Two Ply
- Galvanised Strand
- Copper Ferrule
- Soft Eye
- Single Leg



DETAIL

- Two Ply
- Galvanised Strand
- Copper Ferrule
- Soft Eye



DETAIL

- Two Ply
- Galvanised Strand
- Alloy Ferrule
- Soft Eye
- Three legs

SERIES 00505 OVERHEAD & UNDERGROUND LINE SWIVELS



SPECIFICATIONS

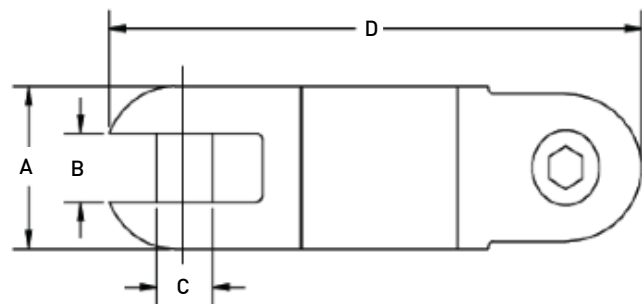
DCD Line Swivels are typically constructed with a thrust bearing for tensile load and a radial bearing for bending load.

They combine a high safe working load with a compact design.

All sizes incorporate an oil seal and are manufactured from high strength stainless steel.

Sizes 00505-020 and larger are supplied with a grease point for lubrication. This is particularly useful in overhead applications where high speed rotation is possible.

All sizes of both types are pull tested to verify the 3:1 safety factor and all swivelling sizes are fully capable of rotation at full working load. Test certificates are available upon request.



Model No.	Safe Working Load (kN)	Dimensions (mm)				Weight (kg)
		A	B	C	D	
00505-005	3.3	16	7.1	4.8	64	0.06
00505-008	5.0	20	7.1	4.8	78	0.12
00505-010	10.0	22	9.5	7.9	86	0.15
00505-015	15.6	25	10.3	9.5	98	0.23
00505-020	22.2	32	13.5	10.3	121	0.45
00505-025	31.1	35	14.3	12.7	130	0.63
00505-027	40.0	38	15.1	12.7	143	0.77
00505-030	44.5	41	17.5	15.9	152	0.95
00505-035	66.7	51	19.8	17.5	178	1.70
00505-040	110.0	60	26.2	22.2	262	3.50
00505-045	222.0	76	30.2	28.6	349	7.70

NOTE: The Safe Working Load is calculated at 3:1 safety factor

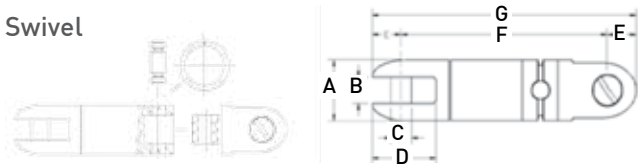
BREAK-AWAY SWIVELS & FUSES, ROPE TO ROPE CONNECTOR

BREAK-AWAY SWIVELS AND FUSES FOR UNDERGROUND



The purpose of this product is to protect the utility being installed from overload. Typically, they would be used during the installation of fibre optic cable or very small gas ducting where the connector can be pre-set to breakaway at a predetermined load, thus protecting the fibres or the duct. The breakaway pins may be changed to allow the same connector or swivel to be used with a variety of different breakaway pins.

Swivel



Model No	Dimensions (mm)							Use Breakaway Pin Type	WT (g)
	A	B	C	D	E	F	G		
00550-005	15.9	7.1	4.7	17.4	6.3	69.8	82.5	A	80
00550-010	22.2	9.5	7.9	24.6	11.1	80.9	103.2	B	190
00550-020	31.8	13.5	10.3	32.5	13.5	114.3	141.3	C	550

BREAKAWAY PINS

Breakaway Model No. *	Breakaway Pin Kits Model No.	Breakaway Fuse Rating (kN)	Type Of Cables To Be Pulled With These Fuses	Pin Type
00550-020	00555-040 (Packet of 5)	18	300mm ² - 500mm, 3 Core + 300mm Triplex (11kV)	C
00550-020	00555-027 (Packet of 5)	12	95mm-300mm ² , 3 Core (11 kV)	C
00550-020	00555-020 (Packet of 5)	9	630mm ² Single Core Cu (11 kV) + LV Unarmoured Cables	C
00550-005	00555-007 (Packet of 5)	3	300mm ² XLPE Single Core or smaller	A

*Other sizes available upon request



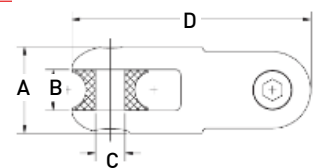
BREAKAWAY SWIVEL PINS FOR 00530/00550 SERIES BREAKAWAY SWIVELS

Model No (Kit=Qty 10 Pins)	Break Point ±10% (kg)	Colour Code	Model No (Kit=Qty 10 Pins)	Break Point ±10% (kg)	Colour Code	Model No (Kit=Qty 5 Pins)	Break Point ±10% (kg)	Colour Code
Type A			Type B			Type C		
00555-002	91	WHITE	00535-002	91	WHITE	00555-018	818	GREEN
00555-0034	155	RED	00535-004	182	YELLOW	00555-020	909	BLUE
00555-004	182	YELLOW	00535-006	273	ORANGE	00555-027	1227	BLACK
00555-0045	205	BLUE	00535-008	364	GREY	00555-036	1636	YELLOW
00555-006	273	ORANGE	00535-010	455	RED	00555-040	1818	RED
00555-007	307	BLACK						

ROPE TO ROPE CONNECTORS

The Rope to Rope Connectors are used to connect two ropes of up to 22mm diameter. The entire product, including sheaves, is manufactured from Stainless Steel.

Model No.	WLL (kN)	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
00521-035	66.7	22	50.8	23.8	17.5	139.7	1.23

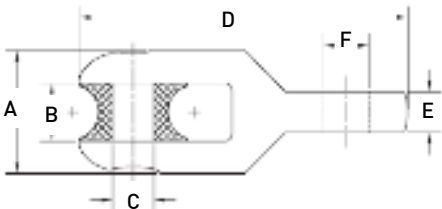


ROPE TO SWIVEL CONNECTOR, PIT PILLAR ACC & SPARE ROLLERS



ROPE TO SWIVEL CONNECTORS

This product is used to connect a swivel to pulling rope. The entire product, including sheave, is manufactured from Stainless Steel. Replacement sheaves are available.



MODEL NO.	WLL (kN)	Max. Rope Dia. (mm)	dimensions (mm)						Weight (kg)	Fits Line Swivel
			A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)		
00522-025	31.1	22.2	50.8	23.8	17.5	134.9	12.7	13.4	0.9	00505-020 00505-025 00505-027
00522-035	66.7	22.2	50.8	23.8	17.5	136.53	16.6	19.0	1.0	00505-030 00505-035

ROLLER & SPARE PARTS

Roller Spares for your Underground Equipment

Spare Rollers



VARIOUS ALUMINIUM ROLLERS
INCLUDING BEARINGS



VARIOUS STEEL ROLLERS
INCLUDING BEARINGS



VARIOUS NYLON ROLLERS

PULLING EYES – REUSABLE & CRIMP



PULLING EYES

Pulling Eyes

Many sizes and types available, suitable for: Cu & Al (Telecomm/Utility); Stranded Cu/Al wires in all sizes; Single Core, 3 Core; XLPE Insulated (HV & LV); Gel-filled (Telecommunication) cables, Fibre Optic and Pressurised Cables.



CHE Type (without spike for single core)
CEC Type (with spike for multi core)



CPG5 Type (with gel port, for gel filled)



RPE Type (re-usable type with optional sleeve)

CRIMPING KIT

Standard Hand Kit includes;

- Rope Crimping Block & Retaining Ring (CDB-100 [←120] or CDB-150 [→120])
- Hydraulic Ram Cylinder (RG-106)
- Hydraulic Hose with Couplers & Dust Caps (HPS-0602CB)
- Hydraulic Hand Pump with Gauge (P-235, FGA-1 & PG-63)



Additional Required Items;

- Push Rod, 1 Required for each Crimp Die* (CDBPR)

* NOTE – Crimper Dies and Crimper ropes Sold Separately in Size Ranges
(Electric pump kit with pendant hand control or foot switch also available upon request)

RE-USABLE PULLING EYES



Reusable pulling eyes for pulling underground cables. Available in single and multiple core versions. Conical wedge included for pulling single core cables and have standard sleeve lengths which are a maximum of 300mm ID.

Model No.	Core	Core Size (mm) OD
RPE-1015	Single	10-15
RPE-1520	Single	15-20
RPE-2025	Single	20-25
RPE-2530	Single	25-30
RPE-3035	Single	30-35
RPE-3540	Single	35-40
RPE-4045	Single	40-45
RPE-4550	Single	45-55
RPE-5055	Single	50-55
RPE-5560	Single	55-60
RPE-6065	Single	60-65
RPE-6570	Single	65-70
RPE3-1015	Triple	10-15
RPE3-1520	Triple	15-20
RPE3-2025	Triple	20-25
RPE3-2530	Triple	25-30
RPE3-3035	Triple	30-35
RPE4-1015	Quad	10-15
RPE4-1520	Quad	15-20
RPE4-2025	Quad	20-25
RPE4-2530	Quad	25-30
RPE4-3035	Quad	30-35

SUB SURFACE TELECOMMUNICATION HAULING ROPE



MEDIUM ROPES FOR SMALL/MEDIUM CABLES INTO MAIN DUCTS

6mm PP Rope Blue/Yellow

- Telstra certified product and contract supplier
- Tangle free uncoiling to coil end, no waste
- Available in 400m coils
- App Break Force of 602kg
- Weight 7kg per coil, 45 coils to a pallet
- "Parramatta Rope"



MODEL NO: ROS0614 (400m)



AQUATEC ROPE

Polypropylene Aquatec Rope - 3 Strand Medium Lay

- 16mm OD x 250m long roll
- Excellent abrasion and shock load resistance
- High tenacity, strength to weight ratio
- UV resistant with excellent weathering properties
- Acid and Alkaline resistance
- Excellent for knotting and splicing
- Not affected by water
- 4,500kg Breaking Strain (1,500kg WLL)



MODEL NO: AQ16G (250m)



JETLINE/MOUSING LINE/BLOWING TWINE

Paktwine Premium Lashing

- Manufactured from Virgin PP for high strength and durability
- 2830 tex 1/350, available in 2 x 1300m spools per pack
- Applied break force of 110kg
- Supplied in white colour, soon to be supplied in orange

MODEL NO: LAS0111M



ROPE-DOUBLE BRAIDED



HIGH FORCE COMPOSITE-DOUBLE BRAIDED CABLE PULLING ROPE



With shock absorption properties similar to nylon and a higher tensile strength than either nylon or polyester, this rope offers even balance and excellent resistance to abrasion, sunlight and most common chemicals.

DETAILS

- Double-braided inner core with double-braided outer jacket
- 4:1 safety factor required for cable pulling.
- Rot and mildew resistant.
- Factory spliced eyes at both ends.
- Lowest stretch
- Select a rope with a maximum rated capacity that meets or exceeds the cable Puller's maximum capacity.
- White rope with green tracer for easy identification
- Supplied on heavy-duty plastic or wooden reel



SPECIFICATIONS

Model No.	Rope Diameter	Rope Length	WLL*	Average Breaking Strength	Weight
	mm	m	kN	kN	Kg
4N-180-03S	14.3	91	13.6	54.6	12.7
4N-180-06S	14.3	182	13.6	54.6	28.6
4N-180-12S	14.3	365	13.6	54.6	59.0
SUITS GREENLEE 6001-22 CABLE PULLER					
4N-240-03S	19.1	91	28.6	114.5	26.3
4N-240-06S	19.1	182	28.6	114.5	51.3
4N-240-12S	19.1	365	28.6	114.5	104.3
SUITS GREENLEE 6800-22 CABLE PULLER					
4N-280-03S	22.2	91	33.5	134.1	40.8
4N-280-06S	22.2	182	33.5	134.1	80.7
4N-280-12S	22.2	365	33.5	134.1	163.3

* Working Load Limit is 5:1 for Lifting and 3:1 for Pulling applications of "Break Strength" unless otherwise specified by manufacturer, local authority, procedure or guideline

NOTE: Longer rope lengths available on request



PELICAN ROPE
The Most Trusted Name in Rope™

HIGH TECH UTILITY CABLE PULLING & STRINGING ROPE



HIGH STRENGTH 12-STRAND DYNEEMA – the world’s strongest fibre

All DYNEEMA Ropes are light blue urethane coated for extra abrasion resistance

This high performance rope is the first choice of top Industrial and Utility professionals

Unaffected by Oil and Common chemicals, this high strength rope is easily spliced, exhibits low flex fatigue, near zero creep, excellent abrasion resistance with a low elongation-to-break ratio. Load sharing and staggering failure built in can eliminate dangerous backlash.

Dyneema is Kilo for Kilo, **10 times stronger than steel and 33% lighter than Nylon with over 3x the strength of Polyester** or Nylon. Additional protection is provided by our urethane coating, Eyes are professionally hand-Spliced along with polyester chafe guards. Break strength remains constant in wet or dry conditions making this the perfect choice for cable pulling and stringing operations mooring and towing lines, offshore positioning ropes, yachting lines, commercial fishing ropes, round-slings and tree climbing lines. With a specific gravity of 0.98, this rope floats!



DETAILS

- Low Flex Fatigue
- Near Zero Creep
- High UV resistance
- Floats on Water
- Eliminate Backlash
- 6% Elongation at Break
- Excellent Abrasion Resistance
- 3x Stronger than Polyester or Nylon

SPECIFICATIONS*

Model No.	Rope Dia. (mm)	Break strength* (kg)	Weight per 30m (kg)
7DP-140	11.1	10,900	2.09
7DP-160	12.7	13,636	2.90
7DP-180	14.3	17,272	3.40
7DP-200	15.9	23,181	4.10
7DP-240	19.1	28,181	5.85
7DP-280	22.2	40,909	8.45
7DP-320	25.4	50,000	10.00

*** Working Load Limit is 5:1 for Lifting and 3:1 for Pulling applications of “Break Strength” unless otherwise specified by local authority, procedure or guideline**

TRENCH ROLLERS



ROLLERS TRENCH (ALL ROLLERS HAVE ROLLER BEARINGS)

Model No.	Description	Roller Size (mm)	Roller Type	Weight (kg)
NTR-120	Flat Trench Roller WLL 250kg*	140	Nylon	1.2
NTRA-120	Flat Trench Roller WLL 250kg*	150	Aluminium	2.8
	TCR78-300			
FGR-140	Flat Ground Roller	140	Nylon	2.8
FGRA-140	Flat Ground Roller	150	Aluminium	3.6
RTR-140	Raised Trench Roller WLL 250kg*	140	Nylon	2.1

TRENCH & CORNER ROLLERS



Model No.	Description	Roller Size (mm)	Roller Type	Weight (kg)
RTRA-140	Raised Trench Roller WLL 250kg*	150	Aluminium	3.1
TRGM-140-4A90	Quad Corner Roller Cable Guide	150	Aluminium	10.0

TRENCH CORNER ROLLER GUIDE



Model No.	Description	Roller Size (mm)	Roller Type	Notes	Weight (kg)
TCR78-300	Corner Roller Guide	2.5 tonne Capacity*	Plated		13.8
TCR60-230	Corner Roller Guide	2.5 tonne Capacity*	Plated	3 single units also shown staked together	10.5
TCRI60-230	Corner Roller Guide	2.5 tonne Capacity*	Plated	3 single units also shown staked together	10.5
TRGM-140-3A45	Trench roller Guide 45° 500mm RADIUS		Plated		9.0

TRENCH MANHOLE ROLLER GUIDE



TRENCH MANHOLE ROLLER GUIDE (ALL ROLLERS HAVE ROLLER BEARINGS)

Model No.	Desciption	Roller Size mm	Roller Type	Weight kg
TRGM-100	Single Roller Cable Guide	150	Aluminium	5.3
TRGM-100-2	Twin Roller Cable Guide	150	Aluminium	7.6
TRGM-100-3	Triple Roller Cable Guide	125	Aluminium	11.5
TRGM-1000	Single Roller Guide	1 000	Aluminium	24.1
TRGM-700	Single Roller Guide	700	Aluminium	11.5



TRENCH MANHOLE ROLLER GUIDE (ALL ROLLERS HAVE ROLLER BEARINGS) Cont'd

Model No.	Description	Roller Size mm	Roller Type	Weight kg
PMRG-080	Pivoting Triple Roller Cable Guide	115	Aluminium	8.0
PMRG-140		150		9.6
PMCG-080	Pivoting Cable Guide	80 Slipper	Plated	4.0
PMCG-100		100 Slipper		4.6
PMCG-150		150 Slipper		5.6

CABLE TRAY ROLLERS (ALL ROLLERS HAVE ROLLER BEARINGS)



Model No.	Description	Roller Size mm	Roller Type	Weight kg
CTR-140	CABLE TRAY ROLLER GUIDE	140mm (Cable to 150mmOD, 600mm rung arms)	Nylon	5.0
CTRA-140	CABLE TRAY ROLLER GUIDE	150mm (Cable to 150mmOD, 600mm rung arms)	Aluminium	5.5
CTR-50	CABLE TRAY ROLLER, BI-DIRECTIONAL	250kg Cable up to 55mm OD	Zinc Plated	3.0 kg
CTR-60C-5R	CABLE TRAY ROLLER	5 Tube Rollers 80mm Cross Section	Zinc Plated	4.7 kg
CTR-360	CABLE TRAY ROLLER	50 x100mm Roller	Plated	3.6 kg
CTR500-15R	90 Degree Angle with Vertical & Horizontal Rollers		Plated	13.0 kg

PIT / PILLAR ACC & HOOK SHEAVES 17.8-35.8kN

Pit & Pillar Accessories



PIT LID SEAL BREAKER
MODEL No. PB-100



PIT LID LIFTER
MODEL No. PK-500



PILLAR SPANNER 21 & 26mm
MODEL No. PS21-26

HOOK SHEAVES 35.8kN WLL (MADE IN USA)

- Can be used with UT8, UT5, 6001, UT4 and UT2 cable pullers.
- Strong, welded steel frames.
- Forged steel closure type hooks with 25.4mm opening.
- Sheaves are aluminium alloy with self-lubricating bearings.



Model No	OD (mm)	Inside Radius (mm)	Width (mm)	Weight (kg)	WLL (kN)
00872	304.8	98.4	127.0	12.7	35.8
00873	457.2	177.8	152.4	19.9	35.8
00874	609.6	250.8	165.1	30.3	35.8

SPARE PARTS

Sheave Model No	00872	00873	00874
Diameter (mm)	304.8	457.2	609.6
Description of Part	Model No	Model No	Model No
Roll Pin	50700	50700	50700
Sheave Pin	00838	00846	00850
Sheave Pin Clip 50302	50302	50302	50302
Sheave Unit	00843	00844	00845
Yoke Frame	00854	00855	00856



HOOK SHEAVES 17.8kN WLL (MADE IN USA)

- Strong, welded steel frames.
- Forged steel closure-type hooks with 25.4mm opening.
- 127mm wide aluminium alloy sheaves with self-lubricating bearings.

Model No	OD (mm)	Inside Radius (mm)	Sheave Width (mm)	Weight (kg)	WLL (kN)
15324	152.4	38.1	127	4.0	17.8
15325	304.8	84.1	127	6.8	17.8
15326	457.2	177.8	127	11.3	17.8
15327	609.6	249.2	127	15.9	17.8

SPARE PARTS

Sheave Model No	15324	15325	15326	15327
Diameter (mm)	152.4	304.8	457.2	609.6
Description of Part	Model No	Model No	Model No	Model No
Sheave Pin	16797	16797	16797	16797
Sheave Pin Clip (2)	50302	50302	50302	50302
Sheave	15362	15358	15363	15364
Sheave Bushing (2)	16798	16798	16798	16798
Yoke Frame	16799	16800	16801	16802



HOOK SHEAVES 17.8-28.9kN

MODEL NO. 17265 RIGHT ANGLE TWIN YOKE SHEAVE 17.8kN WLL (MADE IN USA).

- Strong welded steel yokes.
- Forged steel closure type hook with wide aluminium alloy sheave with self-lubricating bearings.
- Yokes rotate independently to fit various setups.

SPARE PARTS

Description of Part	Model No
Sheave Pin	16797
Sheave Pin Clip (2)	50302
Sheave	15362
Sheave Bushing (2)	16798
Yoke Frame	16799

17265



MODEL NO. 31569 TRIPLE SHEAVE CABLE GUIDE 28.9kN WLL (MADE IN USA)

- Forged steel closure type hook with 38.1mm opening.
- Lightweight aluminium frame with adjustable centre sheave.
- Steel yoke is pinned for easy removal.

Model No	Height (mm)	Length (mm)	Width (mm)	Adjustable Centre Sheave Radius (mm)	Sheave Width (mm)	Weight (kg)	WLL (kN)
31569	555	610	187	495/914	127	12.7	28.9

31569



THESE SHEAVES IDEAL FOR WORKING WITH GREENLEE ELECTRIC CABLE PULLERS. USE ROLLER SUITABLE FOR MACHINE CAPACITY, REFER PAGES D7-D8

CLEANING & PROVING CONDUIT-ELECTRICAL

ELECTRICAL CONDUIT CLEANING AND PROVING



Orange Electrical Conduit-Heavy Duty - Specifications to AS2053.1:2003



Conduit Nominal OD	Proving Mandrel	Rubber Cleaner		Rubber Slug	Cleaning Brush	Equipment OD
mm	Model No.	Model No.	OD mm	Model No.	Model No.	mm
40	DPM-040E	CRC-040E	34.0	RS-040E	WBC-040	31
50	DPM-050E	CRC-050E	43.2	RS-050E	WBC-050	40
63	DPM-063E	CRC-063E	55.2	RS-063E	WBC-063	52
80	DPM-080	CRC-080	80.0	RS-080	WBC-080	74
100	DPM-100	CRC-100	102.2	RS-100	WBC-100	90
125	DPM-125	CRC-125	125.6	RS-125	WBC-125	113
150	DPM-150	CRC-150	143.4	RS-150	WBC-150	130
200	DPM-200	CRC-200	200.0	RS-200	WBC-200	184

ELECTRICAL CONDUIT FEEDER SHEAVES



Conduit Nominal OD	Lockable Feeding Sheave		Lockable Multi Roller Guide		Lockable 4 Roller Feeding Sheave	
mm	Model No.	Weight kg	Model No.	Weight kg	Model No.	Weight kg
63	FS-063E	3.0	-	-	-	-
80	FS-080	4.5	-	-	-	-
100	FS-100	5.7	FS100-4R	6.5	FS100-4A90	TBA
125	FS-125	6.5	FS125-4R	8.0	FS125-4A90	TBA
150	FS-150	7.4	FS150-4R	9.3	FS150-4A90	15.0
200	FS-200	15.32	FS200-4AR	TBA	FS200-4A90	TBA

ELECTRICAL CONDUIT FEEDER GUIDES



Conduit Nominal OD	Slipper Guide		Lockable Feeding Sheave		Feeding Sheave	
mm	Model No.	Weight kg	Model No.	Weight kg	Model No.	Weight kg
50	CS-050	0.5	-	-	-	-
63	CS-063E	0.9	CLS-063	2.0	-	-
80	CS-080	1.3	CLS-080	2.5	IFS-080	2.5kg
100	CS-100	2.6	CLS-100	3.1	IFS-100	3.1kg
125	CS-125	4.5	CLS-125	3.8	IFS-125	3.8kg
150	CS-150	5.3	CLS-150	4.4	IFS-150	4.4kg
200	-	-	-	-	IFS-200	TBA

*Refer next page for Telecommunications Conduits

CLEANING & PROVING CONDUIT- TELECOMMUNICATION, BLOWER KIT



COMMUNICATION CONDUIT CLEANING AND PROVING

WHITE COMMUNICATION CONDUIT - SPECIFICATIONS to AS2053.1:2003



Conduit Nominal OD	Proving Mandrel	Rubber Cleaner	Rubber Slug	Cleaning Brush	Approx. Equipment OD
mm	Model No.	Model No.	Model No.	Model No.	mm
-	DPM-014T	-	-	-	-
-	DPM-018T	-	-	-	-
-	DPM-022T	-	-	-	-
-	DPM-025T	-	-	-	-
-	DPM-028T	-	-	-	-
-	DPM-030T	-	-	-	-
-	DPM-032T	-	-	-	-
50	DPM-050T	CRC-050T	RS-050T	WBC-050	47
63	DPM-063T	CRC-063T	RS-063T	WBC-063	60

COMMUNICATION CONDUIT FEEDER GUIDES & SHEAVES



Conduit Nominal OD	Slipper Guide		Feeding Sheave		Lockable Feeding Sheave	
mm	Model No.	Weight Kg	Model No.	Weight Kg	Model No.	Weight Kg
50	CS-050T	0.5	IFS-050T	2.6	FS-050T	4.5
63	CS-063T	2.6	IFS-063T	3.1	FS-063T	5.7

ELECTRIC BLOWER KIT

MODEL NO. EBK2-130K
100L/min, 240VAC - 50Hz
WEIGHT: 11.9kg (Blower Only)

INCLUDES:
1 x BLOWER EBK2-1300
5m x 50mm hose EBP-5M50
Hand-Gun EBH-30
Conduit Seal-Offs ECS-12, 125, 150



Hose for Blower EBH-5M50
5m x 50mm Corrugated



Hand-Gun for Blower EBH-30



Conduit Seals
12mm – 40mm Conduit ECS-12
50mm – 100mm Conduit ECS-50
110mm – 160mm Conduit ECS-110



Line Carriers (Balloon) Low Pressure Air

100mm Conduit BLC-100
125mm Conduit BLC-125
150mm Conduit BLC-150



PULLING LUBRICANTS & APPLICATOR



SEAL OFFS – CONDUIT (BLOWING)

Model No.	Conduit Size (mm)	Description
CSO-050	50	Conduit Seal Off
CSO-080	80	Conduit Seal Off
CSO-100	100	Conduit Seal Off
CSO-125	125	Conduit Seal Off
CSO-150	150	Conduit Seal Off
CSO-200	200	Conduit Seal Off
PRG-300	-	Conduit Roping Gun for use with Compressors
PRK-400	50, 80, 100, 125 & 150	Conduit Seal Off kit



Conduit Seal Offs (Multiple Sizes)



PRG-300 (Conduit Gun for Compressor)



PRK-400 (Kit includes gun & seal offs)

CABLE & FIBRE PULLING LUBRICANTS

Polymer-based, no silicon lubricant offers lower friction and easier pulling.

- Compatible with all cable insulation types.
- Cleans up quickly. Non-staining.
- Higher lubricity than competitive products.
- Will not cement itself to the pipe.
- Dries slowly.
- Can be applied by hand or pump.
- Will not break down or separate after exposure to heat or cold.
- Environmentally safe/non-hazardous.



Size examples



Model No.	Description	Volume (L)	Weight (kg)	Viscosity (CPS)	Ph Range	Average Cof
35211	Cable-Gel Squeeze Bottle	0.95	1	8,000 - 12,000	7.0-8.0	0.18
35212	Cable-Gel Tub	3.79	3.9	8,000 - 12,000	7.0-8.0	0.18
35213	Cable-Gel Bucket	18.93	20.4	8,000 - 12,000	7.0-8.0	0.18

10358 CABLE PULLING LUBRICANT SYSTEM

10358 Ultra-Glider 12V Assembly (without Applicators)

- Applies lube more evenly around the cable and more consistently than can be done by hand. This reduces the force required by the cable puller and reduces the chance for damage to the cable.
- During a cable pull, the person feeding the cable usually can operate the Ultra Glider, which reduces the need for one person on the job.
- Eliminates the need for a person to place their hands near the point where the cable enters the conduit or duct.
- Eliminates the mess and slippery surfaces associated with manual cable lubrication.

SPECIFICATIONS

Pump Unit

Height:	1 m
Width:	0.45 m
Depth:	0.43 m
Wheel Diameter:	20 cm
Hose Length:	3 m

Battery (12V Unit Only)

Type:	Sealed lead acid rechargeable battery
DC Output:	12-Volt
Weight:	6.6 kg
Battery Life:	three to four 18.9 litre buckets per charge



APPLICATORS

Model No.	Description	Sizes Included (mm)
10252	Slip-In Applicator Kit	50.8 - 63.5 - 76.2 - 88.9 - 101.6 c/w Case
10253	Threaded Applicator Kit	50.8 - 63.5 - 76.2 - 88.9 - 101.6 c/w Case
10311	Slip-In Applicator	152.4 - c/w Case



FIBREGLASS RODDERS & ACCESSORIES



CONTINUOUS FIBREGLASS RODS COILS

Continuous Coils of Fibreglass rod, ideal for long distance rodding of conduits.

The rod is available in two (2) sizes, 9mm & 11mm and includes a 1mm tracer wire in the centre and a 1.5mm layer of UV stabilised polyethylene sheathing for added protection and durability.

The set comes complete with a stand fitted with wheels and a drag brake for holding the rod during operation, threaded male fitting and removable eye on the outward end and a fixed eye on the inner end, joining kit, which consists of 2 joiners, 1 replacement eye, threaded end, glue and fitting instructions.

SIZES AND LENGTHS (including trace wire)

Model No.	Description	Length (m)	Replacement Rod
FRD11-125	11mm Fibreglass Rodder	125	FRR11-* (Length)
FRD11-150	11mm Fibreglass Rodder	150	
FRD11-200	11mm Fibreglass Rodder	200	
FRD11-250	11mm Fibreglass Rodder	250	
FRD11-300	11mm Fibreglass Rodder	300	
FRD9-125	9mm Fibreglass Rodder	125	FRR9-* (Length)
FRD9-150	9mm Fibreglass Rodder	150	
FRD9-200	9mm Fibreglass Rodder	200	



MODEL No. FRD11-300



MODEL No. FRD5-30

PLEASE NOTE: 4 Pneumatic wheels can be fitted if required

Handy Coils for light electrical works (including trace wire)			Replacement Rod
Model No.	Description	Length (m)	
FRD5-30	5mm Fibreglass Rodder	30	FRR5-* (Length)
FRD5-60	5mm Fibreglass Rodder	60	
FRD7-60	7mm Fibreglass Rodder	60	FRR7-* (Length)
FRD7-80	7mm Fibreglass Rodder	80	

* Replacement feeding rollers that suit the rodders are #PR040B

ACCESSORIES Available for 5mm, 7mm, 9mm & 11mm Rods

Model No.	Description
FE5, FE7, FE9, FE11	Fixed Eye for 5, 7, 9, 11mm Rod
SE9-11	Swivel Eye for 9 & 11mm Rod
RG9-11	Roller Guide for 9 & 11mm Rod
ME-05, ME-07, ME-09, ME-11	Male End for 5, 7, 9 & 11mm Rod
JS-05, JS-07, JS-09, JS-11	Joiner for 5, 7, 9 & 11mm Rod
SL5-7 & SL9-11	Spring Leader for 5-7mm & 9-11mm Rod
FL9-11	Fiberglass Leader for 9 & 11mm Rod



JOINER KIT

Model No.	Description	Includes
JK-9	9mm Rod Jointing Kit	QTY
		Description.
		2 Joiner
		1 Fixed Eye
JK-11	11mm Rod Jointing Kit	1 Threaded End
		1 Two Part Epoxy
		1 Fitting Instruction

POLYCARBONATE HAND RODS Available 22mm Diameter x 3m

Lengths



22mm Diameter POLYCARBONATE HAND RODS, 3m Lengths, 0.9KG each.
Fitted with Brass End Couplers.
All Accessories available as with the Fibreglass Rodders.

Model No	Description
PHR-22C	Plastic Hand Crank Rod
PHR-22F	Hand Rod Female Fitting
PHR-22M	Hand Rod Male Fitting
PHR-22L	Bullet Leader Replace
PRE-22F	Female End with Eye
PRE-22M	Male End with Eye
PHR-22GH	Grappling Hook Male Ends

FIBERGLASS FISH TAPE

FIBREGLASS FISH TAPES

FEATURES

- Non-conductive fibreglass tape with patented low-friction coating for faster and easier fishing.
- Perfect for fishing in conduit with wire or cable present.
- Advanced comfort handle grip reduces fatigue.
- Superior rapid tape pay-out and rewind.
- Smaller Fish Eye with offset bend for improved fishing ability.
- Improved low profile tip for easy fishing through all sizes of conduit.
- Viewing Port gives visibility to remaining tape and ability to remove jobsite debris quickly.
- Rugged case design improves drop impact capability.
- Flared case with Grip Ridges for no slip handling.
- Available in 15.2m, 30.5m, 61m and 76.2m lengths.
- Replaceable tips.
- Exclusive, unique, lightweight reel for easy positive feed out and rewind.
- Excellent for installation of telecommunications and data communication
- cables in overhead plenums, above suspended ceilings and under floors.
- Fibreglass fish tape is the fastest manual fish tape available. It is intended for fishing only. Rope or line is recommended for pulling.



MODEL No. 35742



MODEL No. 35746

SPECIFICATIONS CAPACITY

TAPE

4.4 mm OD

1.3 kN maximum design strength

4.8 mm OD

1.7 kN maximum design strength



Model No.	Description	WT (mm)
35742	Fiberglass Fish Tape - 15.2 m × 4.3 mm	1.3
35743	Fiberglass Fish Tape - 30.5 m × 4.3 mm	1.5
35744	Replacement Fiberglass Tape - (NO CASE) 30.5 m	
35746	Fiberglass Fish Tape 61 m × 4.8 mm IN REEL STAND	7.2
05157	Replacement Fiberglass Tape - (NO CASE) 61 m	
35747	Fiberglass Fish Tape 76.2 m × 4.8 mm IN REEL STAND	7.7
05158	Replacement Fiberglass Tape - (NO CASE) 76.2 m	
ACCESSORIES		
Model No.	Description	
10565	Pulling Eye Repair Kit for 4.3mm Diameter Fish Tapes (Includes: pulling eye & adhesive)	
35750	Accessory Kit for 4.8 mm Fish Tapes (Includes flexible pulling leader, flexible pushing leader, pulling eye, splice ferrule and threaded ferrule)	
35908	4.3 mm Repair Kit (Includes threaded end ferrule, splice ferrule and pulling eye)	
35909	4.8 mm Repair Kit (Includes threaded end ferrule, splice ferrule and pulling eye)	
35919	4.3 mm Pulling Eye	
35930	4.8 mm Pulling Eye	

NYLON FISH TAPE & LEADER



NYLON FISH TAPE

- Co-extruded curl-resistant nylon fish tape fishes equally well in large and small conduit.
- High-impact nylon, one-piece handle for maximum durability, long life, and easy, comfortable use.
- Heavy-duty winder case.
- Nylon fish tape is intended for fishing only. Rope or line is recommended for pulling.

Model No.	Description
27396	15.2 m × 4.8 mm diameter Nylon Fish Tape in 300 mm OD Winder Case
27397	30.5 m × 4.8 mm diameter Nylon Fish Tape in 300 mm OD Winder Case
36850	15.2 m × 4.8 mm diameter Nylon Fish Tape without Winder Case
36849	30.5 m × 4.8 mm diameter Nylon Fish Tape without Winder Case
01664	Tip (Requires hex crimp to install.)



SPECIFICATIONS

CAPACITY 4.8 MM DIAMETER
1.1 KN MAXIMUM DESIGN STRENGTH

FLEX-O-TWIST FLEXIBLE FISH TAPE LEADER

- Helps guide 3.2 mm steel tapes through sharp bends.
- Thread on the end of the fish tape in place of the swivel ball head.

Model No.	Description	Specifications
30859	305 mm Flexible Fish Tape Leader	Weight 0.6 kg



SPEEDFLEX FLEXIBLE FISH TAPE LEADER

- Silver-solder joint attaches to any 3.2 mm x 1.5 mm steel fish tape to provide a slim profile that fishes farther, faster.
- High-strength stainless steel cable is used for reliability and long life.
- Bevelled edges on the leader reduce the possibility of hang-ups when pulling wire.
- Several wires can be attached to the large pulling eye.



Model No.	Description	Specifications
14392	305 mm SPEED FLEX Leader (solder joint)	Weight 0.6 kg

STEEL FISH TAPE

STEEL FISH TAPES

FEATURES

- Oil-tempered spring steel for excellent fishing performance.
- Dirt-free tape finish keeps hands cleaner during use.
- High-impact nylon, one-piece handle for maximum durability, long life, and easy, comfortable use.
- Large handle grip for greater user control.
- Self-tensioning case for easy tape winding.
- Wide impact-resistant rewinder case with viewports to ensure tape fit and retaining strap on inside to hold tape secure.



MODEL No. 28256



MODEL No. 29045



MODEL No. 07500

All steel tapes have a 1.7kN maximum design strength

Model No.	Description	WT (kg)
07500	15.2 m × 3.2 mm × 1.1 mm Steel Fish Tape in Winder Case	1.3
29045	19.8 m × 3.2 mm × 1.5 mm Steel Fish Tape in 210 mm Winder Case	1.2
28256	38.1 m × 3.2 mm × 1.5 mm Steel Fish Tape in 300 mm Winder Case	2.3
29046	73.2 m × 3.2 mm × 1.5 mm Steel Fish Tape in 300 mm Winder Case	3.2
30394	30.5 m × 6.4 mm × 1.5 mm Steel Fish Tape in 300 mm Winder Case	3.6
29047	19.8 m × 3.2 mm × 1.5 mm Steel Fish Tape without Winder Case	0.8
28257	38.1 m × 3.2 mm × 1.5 mm Steel Fish Tape without Winder Case	1.5
29048	73.2 m × 3.2 mm × 1.5 mm Steel Fish Tape without Winder Case	2.8
30395	30.5 m × 6.4 mm × 1.5 mm Steel Fish Tape without Winder Case	2.7
30396	61 m × 6.4 mm × 1.5 mm Steel Fish Tape without Winder Case, must be used without winder case	5.0
Accessories		
Model No.	Description	
29367	Swivel Ball Head for use on 3.2 mm steel fish tapes	
05853	Ball Tip Male Half	
30859	305 mm Flexible Fish Tape Leader	
11081	210 mm Case / Handle Kit	
11082	300 mm Case / Handle Kit	

FLAT-STEEL FISH TAPE 6.4m WIDE

- Flat steel tape reaches easily above ceilings, under carpets, and through walls to install wire.
- 7.6 m long, extending your reach.
- Winder case with crank handle for easy, compact storage.



MODEL No. 01696



SILVER STREAK® STAINLESS STEEL FISH TAPES - 3.2m WIDE

- Silver streak® comes with either 30.5 M or 61m of stainless steel fish tape. It's rust and corrosion-resistant, so it lasts longer and rewinds easier than ordinary tape. It won't leave a nasty residue, either.
- Equipped with speed flex™ leader silver-soldered onto the fish tape. Streamlined fish tape/leader connection and lightweight, flexible leader design combine to enable user to fish farther, faster.
- High-impact nylon, one-piece handle for maximum durability, long life, and easy, comfortable use.
- Large handle grip for greater user control.
- Self-tensioning case for easy tape winding.
- 1.7kN maximum design strength.



MODEL No. 06408 in 300mm OD Winder Case

SPECIFICATIONS

Model No.	Description	WT (kg)
06408	30.5 m × 3.2 mm × 1.5 mm Stainless Steel Fish Tape in 300 mm Winder Case	2.3
06410	61 m × 3.2 mm × 1.5 mm Stainless Steel Fish Tape in 300 mm Winder Case	3.2
06786	30.5 m × 3.2 mm × 1.5 mm Stainless Steel Fish Tape without Winder Case and leader	
06787	61 m × 3.2 mm × 1.5 mm Stainless Steel Fish Tape without Winder Case and leader	
Accessories		
14392	305 mm SPEED FLEX Leader (solder joints)	
11082	300 mm Case / Handle Kit	

No leader on replacement tape

FLEX-O-TWIST FLEXIBLE STEEL FISH TAPE

- Made of wound, multi-strand 4.8 mm diameter steel cable for strength and flexibility.
- Flexible...slips through lateral and vertical bends in the same run.
- High-impact, one-piece nylon handle for maximum durability, long life, and easy, comfortable use.
- Heavy-duty winder case.
- 2.2 kW maximum design strength.

SPECIFICATIONS

Model No.	Description	WT (kg)
30162	15.2 m × 4.8 mm diameter Flexible Steel Fish Tape in 300 mm Winder Case	2.7
34002	30.5 m × 4.8 mm diameter Flexible Steel Fish Tape in 300 mm Winder Case	4.5
29518	30.5 m × 4.8 mm diameter Flexible Steel Fish Tape without Winder Case	4.1
Accessories		
11082	300 mm Case / Handle Kit	



MODEL No. 30162 (with 300 mm OD Case)

CABLE DRUM HANDLING EQUIPMENT



Australian made Cable Drum Handling equipment to accommodate all sizes and types of Drums, for workshop and worksite operation.

CABLE DRUM RAMPS MODEL NO. DRR-1000 (MADE IN AUSTRALIA)

- Lightweight and transportable
- Folds flat for storage and transport
- Suits a wide range of Cable Drums up to 1700mm in diameter
- Used in Industrial situation on flat ground
- Includes a rear safety bar, to stop the drum rolling off backwards

Model No	Description	Flange Diameter mm	WLL kg	Weight Kg
DRR-1000	CABLE DRUM RAMP	1700*	1000	28 pair

*Minimum 450mm OD
Dimensions: 1350L x 210W x 250mmH
Folded Dimensions: 750L x 210W x 210mmH



DRR-1000 Shown Folded

CABLE DRUM TROLLEY MODEL NO. CDT-500 (MADE IN AUSTRALIA)

- Lightweight and transportable
- Folds flat for storage and transport
- Four Mounting Positions Suits a range of cable drums up to 1450mm
- Used in Industrial situation with powder coated finish
- Includes two pneumatic wheels and one solid plastic wheel with brake
- Spindle and four retaining collars

Model No	Description	Drum Width mm		WLL kg	Weight Kg
		MIN	MAX		
CDT-500	CABLE DRUM TROLLEY	750	900	500	42

Dimensions: 1285L x 1745W x 1000mmH
Folded Dimensions: 1285L x 1340W x 335mmH



CDT-500 Shown Folded

CABLE DRUM CADDY MODEL NO. CDC-500 (MADE IN AUSTRALIA)

- Lightweight and transportable
- A combination of Rolled arches, self-lubricating Acetyl blocks and a cranking ratio of 7:1, aid with the lifting of cable drums
- Lifts drums up to 1200mm x 950mm
- Includes a Rubber/plastic wheel and two swivel wheels with brakes at the rear and 60mm Axle and two retaining collars

Model No	Description	Max Drum Width mm	WLL kg	Weight Kg
CDC-500	CABLE DRUM CADDY	1200	500	40

Dimensions: 1410L x 1300W x 855mmH



MODEL No. CDC-500

CABLE DRUM HANDLING EQUIPMENT



Australian made Cable Drum Handling equipment to accommodate all sizes and types of Drums, for workshop and worksite operation.

CABLE DRUM LEVER MODEL NO. DL-1200 (MADE IN AUSTRALIA)

- Lightweight and transportable
- Cable Drum Frame utilises a leverage of approximately 10:1 to aid with the lifting
- Lifts drums up to 1500mm OD x 1000mm wide
- Includes and 50mm Axle and two retaining collars

Model No	Description	Max Drum Width mm	WLL Kg	Weight kg
DL-1200	CABLE DRUM LEVER	1500	1200	25

DIMENSIONS: 1780L x 1260W x 830mmH



ROPE STAND MODEL NO. CRS-290 (MADE IN AUSTRALIA)

- Lightweight and transportable
- Folds flat for storage and transport
- Useable axle length 800mm
- Used in Industrial situation with powder coated finish
- Includes zinc plated axle 33mm OD

Model No	Description	Drum Width mm		Weight kg
		Min	Max	
CRS-290	CABLE REEL STAND	SMALL BUILDERS CABLE DRUMS*		7

*Maximum 700mm

Dimensions: 900L x 531W x 400mmH

Folded Dimensions: 900L x 531W x 140mmH



ROPE CADDY: MODEL NO. CRC-600 & ROPE STAND MODEL NO. RS-2419 (MADE IN AUSTRALIA)

- Lightweight and transportable
- Suitable for Workshop & Worksite applications
- Axle 90mm OD

Model No	Description	Max Drum Width mm	Weight kg
CRC-600	CABLE DRUM CADDY	1200	40

Dimensions: 910L x 975W x 1085mmH

Capacity 2,100m of 6mm rope
1,300m of 8mm rope
550m of 12mm rope
320m of 16mm rope



CRC-600

- Axle 50mm OD

Model No	Description	Max Drum Width mm	Max Drum OD mm	Weight kg
RS-2419	ROPE STAND	500	600	11.8

Dimensions: 590L x 500W x 366mmH



RS-2419

CABLE DRUM HANDLING EQUIPMENT



Australian made Cable Drum Handling equipment to accommodate all sizes and types of Drums, for workshop and worksite operation.

CABLE DRUM SCISSOR LIFT MODEL No. SLS Series (MADE IN AUSTRALIA)

- Manoeuvrable and transportable
- Designed for rugged use
- Winding via spin handle or with a 25mm ratchet wrench
- Includes Operating Instructions, WLL labelling and Compliance Certificate
- Fitted with Wheels for ease of placement

Model No	Description	Kit Contents	Drum Dia mm Max	Useable Drum Axle Length (mm)	Drum Axle Diameter (mm)	WLL Kg	OAL (mm)	Width (mm)	Max Angle (°)	Max Height (mm)
SLS1-2T	SCISSOR LIFT DRUM SET	Pair of lift frames, Pair drum retaining collars, Drum Axle, Ground joining bar, Compliance certificates	1600	1700	60	2000	1380	400	55	925
SLS3-4T			2400	2000	90	4000	1780	400	60	1330

Shipping Dimensions, both kits contain a Carton on Pallet & Skid with Axle.

Description	SLS1-2T		SLS3-4T	
	Dimensions (mm)	Weight (kg)	Dimensions (mm)	Weight (kg)
Carton on Pallet	1400 x 710 x 370	90	1850 x 500 550	120
Skid with Axle	2500 x 180 x 150	40	2500 x 200 x 180	50



SLS1-2T Shown with cable drums mounted



SLS3-4T Shown with cable drum mounted

CABLE DRUM HANDLING EQUIPMENT



Australian made Cable Drum Handling equipment to accommodate all sizes and types of Drums, for workshop and worksite operation.

TELESCOPIC PORTABLE DRUM STAND (MADE IN AUSTRALIA)

- Lightweight and transportable
- Disassemble for storage and transport
- Suits a wide range of Cable Drums
- Used in Industrial situation on flat ground
- 10 positioning holes and easy wind height adjustment, Includes Axle, cones and two retaining collars



PORTABLE CABLE DRUM STAND
MODEL No. TDS-1200

Model No	Description	Drum mm		Included Axle (mm) OD x Length	Usable Spindle Length (mm)	WLL kg	Weight Kg
		Min Diametre	Max Diametre				
TDS-1200	TELESCOPIC DRUM STAND	1100	1500	50 x 1600	1250	1200	26

COMPLETE DIMENSIONS: 400mmL x 1600mmW x 850mmH
INDIVIDUAL STAND DIMENSIONS: 420mmL x 420mmW x 850mmH

"A" FRAME CABLE DRUM STANDS – DSF SERIES (MADE IN AUSTRALIA)

- Powder coated frame, built for rugged conditions
- Can be fitted to trailer or truck
- Supplied with Axle, Cones & Collars and Ground levellers
- Includes Operating Instructions, WLL labelling and compliance certificate (Refers to test report)



Model No.	Description	Drum Diameter (mm)		Usable Spindle Length (mm)	Spindle OD (mm)	WLL (kg)	C/W Levelling Screws	C/W Extension Arm
		Max Drum Ø	Max Drum Width					
DSF-2016-6T	Cable Drum A-Frame Stand	2000	1600	1700	66	6000	✓	
DSF-2420-8T		2400	2000	2100	90	8000	✓	
DSF-2420-12T		2400	2000	2100	90	12000	✓	
DSF-3624-16T		3600	2400	2500	100	16000		✓
6T	Disc brake for 66mm axle	Provisions for 1 x DB-066 on drum spindle					Complete with fixing arm	
8T & 12T	Disc brake for 90mm axle	Provisions for 1 x DB-900 on drum spindle						
16T	Disc brake for 100mm axle	Provisions for 2 x DB-1000 on drum spindle						

Overall Dimensions (LxWxH) mm	Approx Weight* (kg)
214x179x133	150
254x189x140	250
300x252x200	500

* Not including spindle



DSF-2420-8T Shown with levellers

"A" FRAME CABLE DRUM STANDS
MODEL No. DSF-SERIES



DSF-2420-12T Shown with Mechanical Brake and Drum Fixing Arm

CABLE DRUM
HANDLING EQUIPMENT



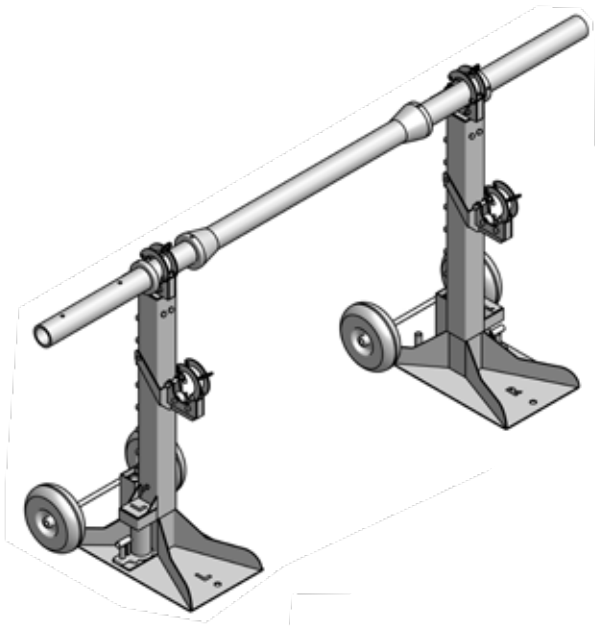
8T HYDRAULIC DRUM JACK STAND MODEL No. DJS-58T
(MADE IN AUSTRALIA)

- Durable and sturdy and ready for tough jobs
- Manoeuvrable and transportable
- Rated plates marked with 8,000kg and supplied with test report (cert MT 06/292)
- Supplied standard with 90mm axle (DA28-90XH) 2 cones & 3 collars for securing the drum, special size axles available upon request (refer below)

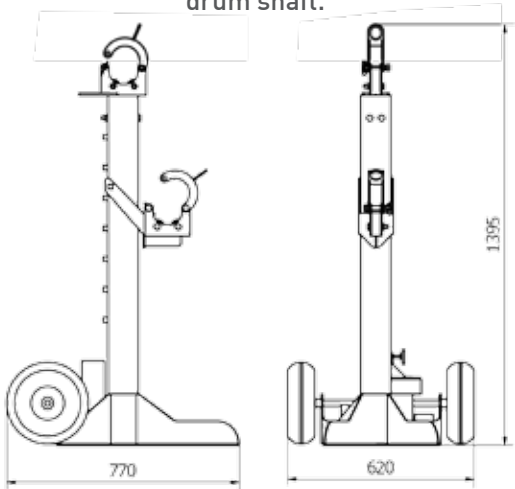
Model No	Description	Drum Dia mm	WLL Kg
		Max	
DJSC-58T	HYDRAULIC DRUM JACK STAND WITH BRAKE & FIXING ARM (SEE BELOW)	3300	8000
DJS-58T	HYDRAULIC DRUM JACK STAND	3300	8000

OPTIONAL ACCESSORIES

Model No	Description	Suits
DB-900	DISC BRAKE (Supplied with below DFA-90)	90mm AXLE DA28-90HB
DFA-90	DRUM FIXING ARM	90mm AXLE DA28-90HB



Max drum size of 2.6m and a transverse of 2m up to 2.4m, with a max of 90mm hollow drum shaft.



BOXED CONTENTS

Qty	Description
2	Bases, Left and Right
2	Upright Middle Arms
2	Front Adjustable Roller Supports
2	Top Roller Supports
2	Bottle Jack Handles
2	Wheel Axle with split pins and washers
4	Pneumatic wheel 127mm OD
4	Drum Centering Cones
4	Axle Retaining Collars
1	Instruction sheet
1	Certificate

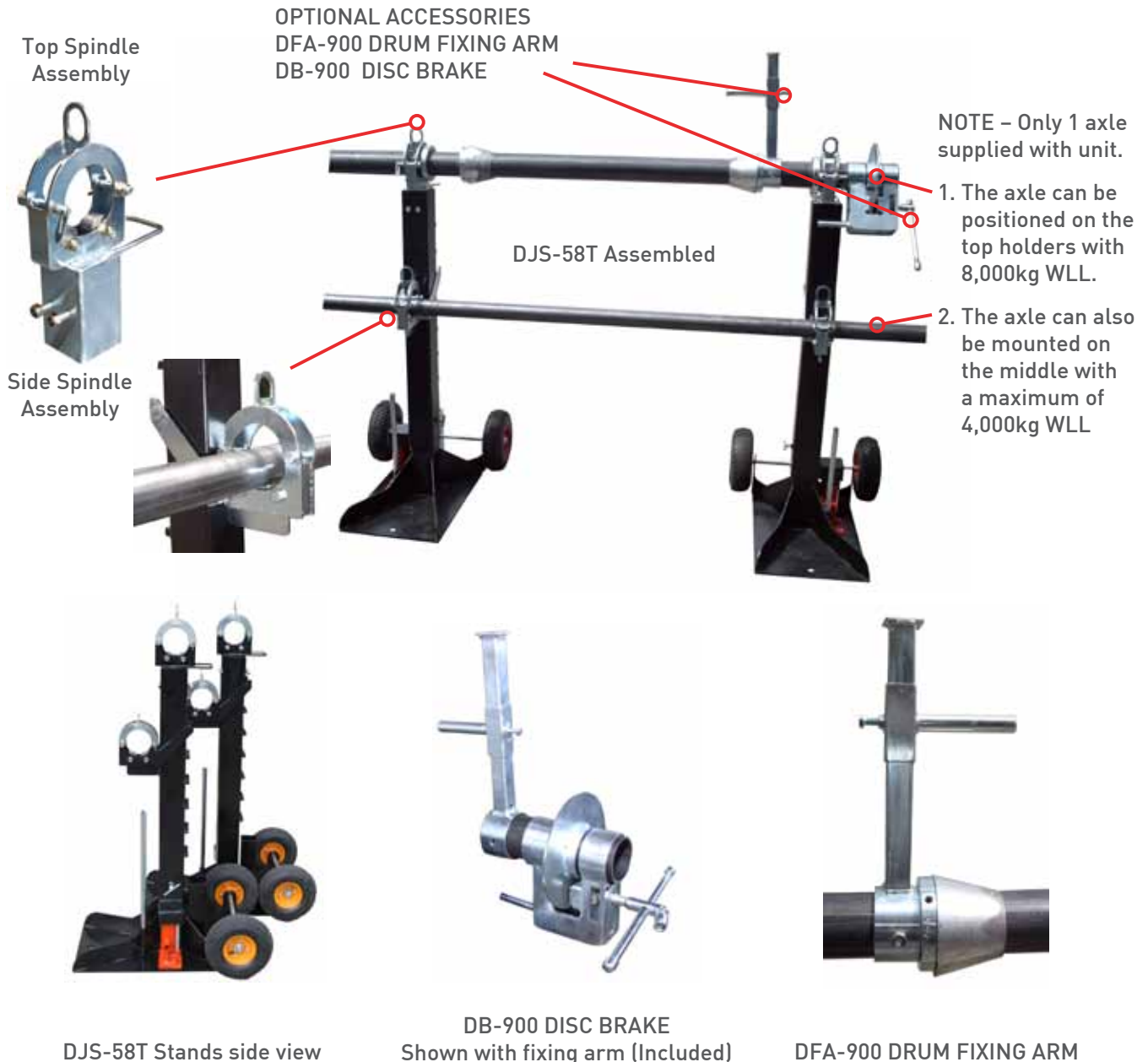
TRANSPORT DIMENSIONS

Item	Dimension (cm)	Wt (kg)
Box	110 x 70 x 65	140
Axle	280 x 15 (OD)	56

CABLE DRUM HANDLING EQUIPMENT



8T HYDRAULIC DRUM JACK STAND MODEL No. DJS-58T (CONTINUED) (MADE IN AUSTRALIA)



OPTIONAL SPINDLE SPECIFICATIONS

Spindle #	Drum Axle Cones #	Shaft Collars	Drum Fixing Arm & Brake #	Type	Length (m)	OD (mm)	WLL (Tonne)
DA25-60	DAC-060	DSC-060	N/A	Tube	2.5	60	2
DA25-90	DAC-090	DSC-090	N/A	Tube	2.5	89	4
DA28-40S	DAC-040	DSC-040	DB-400	Solid	2.8	40	5
DA28-66HB	DAC-066	DSC-066	DB-660	Tube	2.8	66	8
DA28-70HB	DAC-070	DSC-070	DB-700	Tube	2.8	72	8
DA28-90HB*	DAC-090	DSC-090	DB-900	Tube	2.8	92	8
DA28-90XH	DAC-090	DSC-090	DB-900	Tube	2.8	92	12

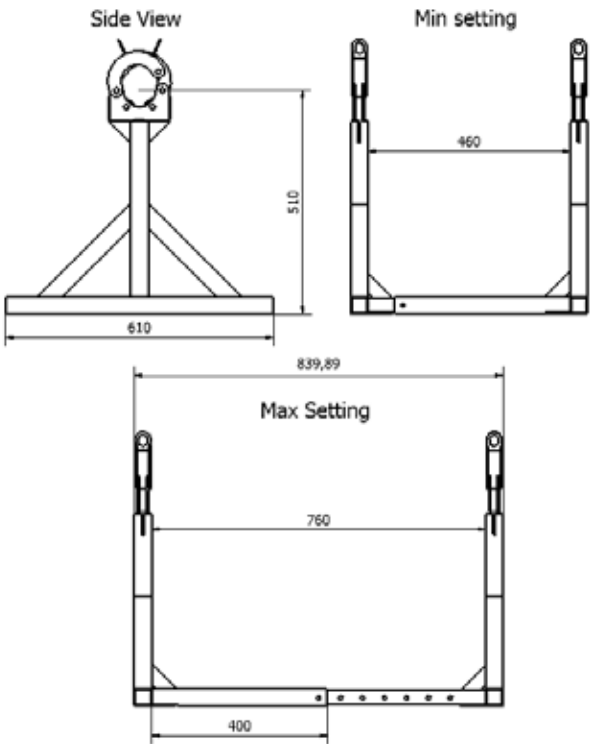
* DA28-90HB is included with purchase of DJS-58T package.

CABLE DRUM HANDLING EQUIPMENT



MODEL NO. SCDS-800 SERVICE CABLE DRUM STAND (MADE IN AUSTRALIA)

E UNDERGROUND CABLE PULLING



Drum stand for service cable reels. 2 cones and 2 collars included. Extendable length to accommodate wider drum sizes. Comes certified and can be custom made to suit various drum sizes.

Model No.	WLL (kg)	Included Axle OD (mm)	Min/Max Length (mm)	Max Drum Diameter (mm)	Width (mm)	Height (mm)	Wt (kg)
SCDS-800	1500	50	540/840	900	610	630	25

AXLE INCLUDED

Axle Description	Length (m)	Diameter (mm)	WLL (Tonnes)
Tube	0.9	50.0	1.5

Disc brake and hydraulic drive optional extras.



CABLE DRUM HANDLING EQUIPMENT

MECHANICAL REEL JACKS

- 3 Models
- Double-lever socket
- Multiple-tooth pawls for strength & safety
- Forged alloy steel, heat treated components
- Plated spring links
- Precision machining throughout
- Steel lever bars (sold separately)



MODEL No. 321B



Convenient
carry handles



Tough laminated
hardwood base
for extra strength

MODEL 320B

With three hooks; top fits up to 64mm axles; side hooks fit up to 50mm axles.

MODEL 321B (shown above)

With five hooks: top fits up to 90mm axles, next hook down fits up to 75mm axles, and lowest three fit up to 60mm spindles. This model is recommended for use on firm surfaces.

MODEL A1029

The A1029 has a lightweight aluminium alloy housing and three hooks; top fits up to 75mm axles, side hooks fit up to 60mm axles.

Equipped with right or left-handed t-base, supported by three adjustable steel rods, provides a sturdy non-rocking foundation for outside use.

Caps swivel for easy reel mounting. Steel lever bars are ordered separately.

Using A1029-R and A1029-L, Operators can easily handle large drums. The large wooden bases and low handle effort enhance safety and reduce operator fatigue. The Drum Jacks are also an excellent choice for wire rope and sling manufacturers



Lever Handles sold separately, refer table below

Model No	Capacity Per Pair		Handle Effort Per (kg)	Stroke (mm)	Reel Dia (mm)	Top Hook Height (mm)	Weight (kg)	Steel Lever Bars			
	Side Hooks (kg)	Top Hooks (kg)						MODEL No.	LENGTH mm	DIA mm	WEIGHT kg
320B	4500	9000	15	254	500 to 1500	533	23	10640	914	25.4	3.6
321B				304	500 to 2400	863	58				
A1029-R	9000	18000	10	292	900 to 2100	787	31	10665	1524	31.8	7.7
A1029-L								10675	1828	31.8	9.2

Standard Axles Available to Suit (Special sizes available upon request)

Model No.	Length (m)	OD (mm)	WLL Tonne
DA28-40F	2.8	44	5
DA28-66HB	2.8	66	8
DA28-70HB	2.8	72	8
DA28-90HB	2.8	90	8
DA28-90XH	2.8	90	12

PULLING MACHINE SELECTION

UNDERGROUND PULLING MACHINERY



Suitable for underground pulling or hauling applications in various industries such as utility (Pulling small and large diameter power cables, etc) and associated industry (Telecommunication). More machines available upon request. Some features and performances of machines can be modified on request.

Performances of machines listed are without optional devices, at sea level at a temperature of 20°C. Dimensions and weights are also without optional devices. Information may change without notice due to continual research, development and improvement. Images and drawings are indicative only.



OMAC Model No.	Capstan OD (mm)	Max Rope (mm)	Power (kW)	Page Ref #	CapacitY (kN)
F 325.P.08	120	6-7	8.0	E32	9
F 265.P.10	185	8	13.0	E33	15
F 215.P.25	200	8-10	18.8	E34	30
F 280.35	325	13-16	30.8	E35	40
F 275.P.40	250	13	27.9	E36	40
F 285.P.50	300	14	30.0	E37	55
F 280.P.100	350	16	48.0	E38	110
F 290.P.200.S	350	22	62.0	E39	210
F 260.P.R.400.S	580	32	80.0	E40	450

OMAC HISTORY

Established in 1954 by Mr. Luigi Consonni OMAC now consists of two companies;

OMAC s.n.c. designs, produces and commercialises a huge range of machines and equipment suitable for overhead stringing and underground pulling or stringing conductors, wires, cables for electrical utilities, telecommunications and railways.

The specialisation of OMAC products includes the stringing of overhead transmission lines as well as the laying of underground conductors, high and low tension, copper and aluminium conductor, as well as the optical fiber (OPGW).

OMAC's experience and flexibility of production allows them to customise machines for special purposes, designed on the specific needs and requirements of the customer.

The large number of OMAC machines working today in many countries worldwide is a testament to their reliability and quality.





Over 40 years of experience in manufacture!

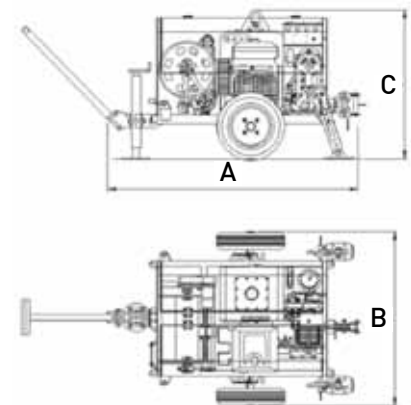
MORE MACHINES AVAILABLE UPON REQUEST

UG PULLING MACHINES 9kN-OMAC

MODEL NO. F 325.P.08 PULLING MACHINE



 Max Rope Diameter (mm OD) 6-7	 Drum Capacity (m) 500 (6mmOD) 350 (7mmOD)	 Engine Power (kW) 8	 Max Continuous Pull Force (kN) 9
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Model No. F 325.P.08

A x B x C = 1.40 x 0.97 x 0.83m
Weight (without rope) = 280kg

Hydraulic puller suitable for pulling one underground transmission cable and fibre optic wires. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel.
- Dynamometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Built-in reel-winder with automatic rope-winder and extractable reel.
- Axle with tires and drawbar for towing at workplace.
- Mechanical stabilisers on tow side and jack-arm with wheel on pull side.
- Fittings for anchoring the machine.
- Rope driver rollers on pull side.

OPTIONAL DEVICES

- 003 Amortised axle for towing on road, with mechanical brake.
- 027 Metallic coverage with side doors.
- 028.3 Air cooled diesel engine with electric start 12VDC.
- 034 Electric start of engine 12VDC.
- 067 Telescopic rod for underground operations (Model No. **F 277**)
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull (it requires arrangement on the machine, Model No. **069.3**).
- 069.3 Arrangement for electronic instrument (Model No. **069.2**).
- 090 Single phase electric motor 230VAC.
- 090.1 Three-phase electric motor 415VAC.

TECHNICAL



CAPSTAN & ROPE

Capstans 2 x 120mm OD
Max rope diameter 6-7mm

ENGINE

Petrol
Power 8kW
Cooling Air
Start Rope

PULL PERFORMANCES

Max pull 9kN
Speed at max pull 15m/min
Max speed 45m/min
Pull at max speed 2.5kN

REEL

Type Extractable

CAPACITY





500m steel rope 6mm OD
350m steel rope 7mm OD

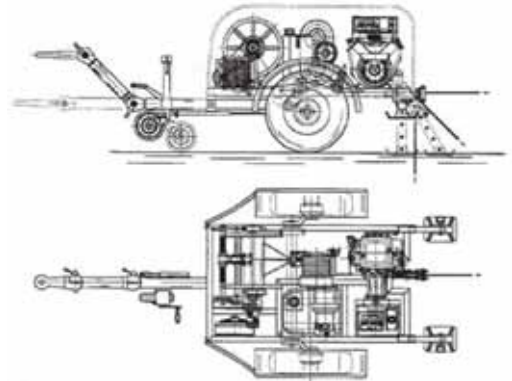
UG PULLING MACHINES

15kN-OMAC

MODEL NO. F 265.P.15 PULLING MACHINE



			
Max Rope Diameter (mm OD)	Drum Capacity (m)	Engine Power (kW)	Max Continuous Pull Force (kN)
8	550 (8mmOD)	13	15



Model No. F 265.P.10

Refer technical details below for weights and dimensions, two standard options available

Hydraulic puller suitable for pulling one underground transmission cable and fibre optic wires. One hydraulic circuit allows variable continuous speed in both directions by operating one only control.

FEATURES

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel.
- Dynamometer and preselector of max pull force.
- Metre-counter.
- Safety hydraulic negative brake.
- Built-in reel-winder with automatic rope-winder and extractable reel.
- Demountable axle with tires and drawbar for towing at low speed at worksite.
- Mechanical stabilisers on tow side and jack-arm with wheel on pull side.
- Fittings for anchoring the machine.
- Oil cooling system.
- Pulley for rope for telescopic rod.

OPTIONAL DEVICES

- 003 Amortised axle with independent suspensions for towing on road at 60km/h, with mechanical brake.
- 027 Metal cover with side doors.
- 028.3 Air cooled diesel engine (it adds 50kg to the machine weight).
- 067 Telescopic rod for underground operations (Model No. F 277).
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull. It requires arrangement on the machine, (Model No. 069.3)
- 069.3 Arrangement for electronic instrument (Model No. 069.2)

TECHNICAL



CAPSTAN & ROPE

Capstans 2 x 185mm OD
Max rope diameter 8mm

ENGINE

Petrol
Power 13kW
Cooling Air
Start 12VDC Electric

PULL PERFORMANCES

Max-pull 15kN
Speed at max pull 20m/min
Max speed 65m/min
Pull at max speed 3kN

REEL

Type extractable

CAPACITY

550m steel rope 8mm OD

DIMENSIONS AND WEIGHT

Without axle or drawbar
Dimensions 1.30 x 0.80 x 0.70m
Weight (without rope) 410kg





With optional non-demountable axle and drawbar (Model No. 003)
Dimensions 1.55 x 1.20 x 1.10m
Weight (without rope) 520kg

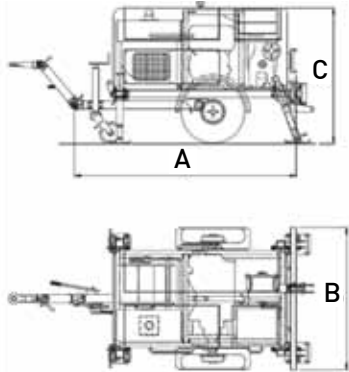
UG PULLING MACHINES

30kN-OMAC



MODEL NO. F 215.P.25 PULLING MACHINE

 Max Rope Diameter (mm OD) 8–10	 Drum Capacity (m) 800 (8mmOD) 500 (10mmOD)	 Engine Power (kW) 18.8	 Max Continuous Pull Force (kN) 30
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Model No. F 215.P.25

A x B x C = 2.10 x 1.30 x 1.30m
Weight (without rope) = 1000kg

Hydraulic puller suitable for pulling one underground transmission cable and fibre optic wires. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel.
- Electronic device operating as dynamometer, metre-counter, speedometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Built-in reel-winder with automatic rope-winder and extractable reel.
- Chassis with rigid axle, hand brake and drawbar for towing at low speed in workplace.
- Mechanical stabilisers on pull side and manual jack-arm with wheel on tow side.
- Fittings for anchoring the machine.
- Metal cover with side doors.
- Oil cooling system.
- Pulley for rope for telescopic rod.

OPTIONAL DEVICES

- 007** Amortised axle, drawbar, overrun braking system, tires and lights, for towing on road at 60km/h (Registration excluded).
- 028.1** Water cooled diesel engine.
- 037** Removable control lever with 10m of cable.
- 038** Radio-control.
- 067** Telescopic rod for underground operations (Model No. **F 277**).
- 068** Telescopic rod for underground operations, with reserve of cable (Model No. **F 278**).
- 069.2** Electronic device with USB port and printer, to save and print the data of the pull. It requires pre-installation on the machine, (Model No. **069.3**).
- 074.2** Steel rope.

TECHNICAL



CAPSTANS & ROPE

Capstans 2 x 200mm OD
Max rope diameter 8-10mm

ENGINE

Diesel
Power 18.8 kW
Cooling Air
Electric system 12VDC

PULL PERFORMANCES

Max-pull 30kN
Speed at max pull 16m/min
Max speed 80m/min
Pull at max speed 4kN

REEL

Type Extractable
Diameter 520mm

CAPACITY





800m steel rope 8mm OD
500m steel rope 10mm OD

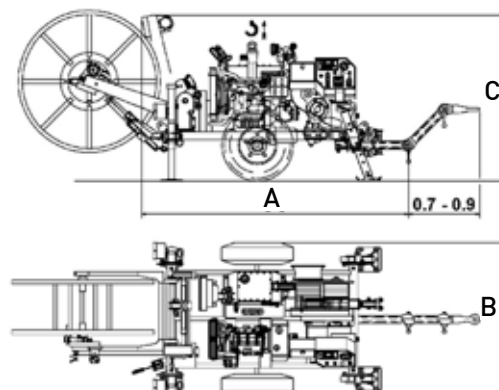
UG PULLING MACHINES

40kN-OMAC

MODEL NO. F 280.35 PULLING MACHINE



			
Max Rope Diameter (mm OD)	Drum Capacity (m)	Engine Power (kW)	Max Continuous Pull Force (kN)
13-16	900 (16mmOD) 1,600 (13mmOD)	30.8	40



Model No. F 280.35

A x B x C = 1.40 x 0.97 x 0.83m
Weight (without rope) = 280kg

Hydraulic puller suitable for pulling one underground transmission cable and fibre optic wires. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- One pair of multi-grooved steel capstans fit for stringing one steel rope.
- Machine control panel with control instruments.
- Dynamometer with preselector of max pull force
- Mechanical metre counter.
- Safety negative hydraulic brake.
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed on work site.
- Hand-operated mechanical stabilisers
- Attachments for anchorage and for lifting.
- Hydraulic-operated reel winder fit for a 1400mmOD reel, with automatic rope winder.
- Oil cooling system.

OPTIONAL DEVICES

- 007 Chassis with amortised axle, overrun brake and drawbar for towing on road (homologation excluded).
- 026 PVC cloth cover.
- 027 Metal cover with doors.
- 028.1 Water cooled diesel engine.
- 037 Removable control lever with 10m of cable.
- 038 Radio-control.
- 051.2 Machine autonomous movement for shifting the machine at yard, with lever change of direction and hydraulic drive.
- 067 Telescopic rod to lay underground cables (Model No. F 277). Model No. 083.2 must also be ordered.
- 069.2 Electronic instrument with USB port and printer, that permits to store and print the data of the pull. It requires Model No. 069.3 arrangement.
- 069.3 Arrangement for electronic device Model No. 069.2.
- 083.2 Rope driving pulley predisposed for matching a telescopic rod (to lay underground cables).

TECHNICAL



CAPSTANS & ROPE

Capstans	2 x 325mm OD
Capstan Grooves	7 + 7
Max rope diameter	13-16 mm
Max Joint diameter	40/45 mm

ENGINE

Diesel	
Power	30.8 kW
Cooling	Air
Electric System	12VDC

PULL PERFORMANCES





Max-pull	40kN
Speed at max pull	1.2km/h
Max speed	4.0km/h
Pull at max speed	13kN

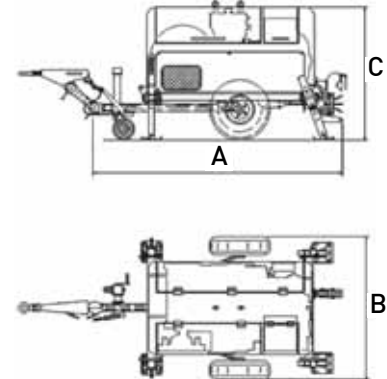
Suitable for Underground cable pulling with optional Model No. 083.2

UG PULLING MACHINES 40kN-OMAC

MODEL NO. F 275.P.40 PULLING MACHINE



			
Max Rope Diameter (mm OD)	Drum Capacity (m)	Engine Power (kW)	Max Continuous Pull Force (kN)
13	850 (13mmOD) 1,000 (12mmOD) 1,200 (11mmOD)	27.9	40



Model No. F 275.P.40

A x B x C = 2.60 x 1.70 x 1.50m
Weight (without rope) = 1600kg

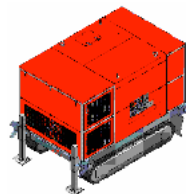
Hydraulic puller suitable for pulling one underground transmission cable and fibre optic wires. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- One pair of multi-grooved steel capstans suitable for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel.
- Electronic device operating as dynamometer, metre-counter, speedometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Built-in reel-winder with automatic rope-winder and extractable reel.
- Chassis with rigid axle, hand brake and drawbar for towing at low speed on worksite.
- Mechanical stabilisers on pull side and manual jack-arm with wheel on tow side.
- Fittings for anchoring the machine.
- Metal cover with side doors.
- Oil cooling system.
- Pulley for rope predisposed for telescopic rod.

OPTIONAL DEVICES

- 007 Axle suspension, drawbar, overrun braking system, tyres and lights, for towing on road at 60km/h (Registration excluded).
- 028 Silenced diesel engine.
- 028.1 Water cooled diesel engine.
- 037 Removable control lever with 10m of cable.
- 038 Radio-control.
- 051.3 Motorised rubber caterpillars.
- 038.C Radio-control for the caterpillars.
- 067 Telescopic rod for underground (Model No. F 277).
- 068 Telescopic rod for underground and reserve of cable (Model No. F 278).
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull. It requires arrangement on the machine, Model No. 069.3.
- 074.2 Steel rope.



TECHNICAL



CAPSTANS & ROPE

Capstans 2 x 250mm OD
Max rope diameter 13mm

ENGINE

Diesel
Power 27.9kW
Cooling Air
Electric System 12VDC

PULL PERFORMANCES

Max-pull 40kN
Speed at max pull 16m/min
Max speed 60m/min
Pull at max speed 12kN

REEL

Type Extractable
Diameter 750mm

CAPACITY

850m steel rope 13mm OD
1000m steel rope 12mm OD
1200m steel rope 11mm OD

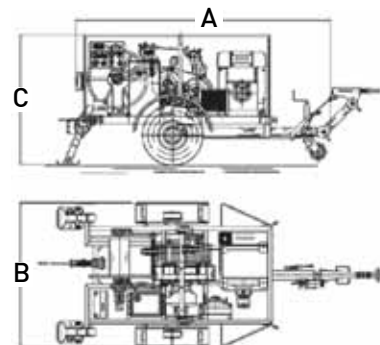
UG PULLING MACHINES

55kN-OMAC



MODEL NO. F 285.P.08 PULLING MACHINE

<p>Max Rope Diameter (mm OD)</p> <p>14</p>	<p>Drum Capacity (m)</p> <p>1,200 (14mmOD) 1,300 (13mmOD) 1,500 (12mmOD)</p>	<p>Engine Power (kW)</p> <p>30</p>	<p>Max Continuous Pull Force (kN)</p> <p>55</p>
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Model No. F 285.P.50

A x B x C = 3.00 x 1.85 x 1.60m
Weight (without rope) = 2150kg

Hydraulic puller suitable for pulling one underground transmission cable. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel.
- Electronic device operating as dynamometer, metre-counter, speedometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Built-in reel-winder with automatic rope-winder and extractable reel.
- Chassis with rigid axle, hand brake and drawbar for towing at low speed at worksite.
- Mechanical stabilisers on pull side and manual jack-arm with wheel on tow side.
- Metal cover with side doors.
- Oil cooling system.
- Pulley for rope predisposed for telescopic rod.

OPTIONAL DEVICES

- 007 Axle suspension, overrun braking system, drawbar and lights for towing on road (Registration excluded).
- 005.2 Tandem axle with torsion bar suspensions, overrun braking system and lights (Registration excluded).
- 028 Silenced diesel engine.
- 028.1 Water cooled diesel engine.
- 037 Removable control lever with 10m of cable.
- 038 Radio-control (max distance 50m).
- 067.1 Telescopic rod for underground operations (Model No. F 276).
- 068 Telescopic rod for underground operations and reserve of cable (Model No. F 278).
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull.
- 074.2 Steel rope.
- 127.2 Reinforced negative brake for using the machine in tower erections.

TECHNICAL



CAPSTANS & ROPE

Capstans 2 x 300mm
Max rope diameter 14mm

ENGINE

Diesel
Power 30kW
Cooling Air
Electric System 12VDC

PULL PERFORMANCES

Max-pull 55kN
Speed at max pull 16m/min
Max speed 60m/min
Pull at max speed 12kN

REEL

Type Extractable
Diameter 1000mm

CAPACITY





1200m steel rope 14mm OD
1300m steel rope 13mm OD
1500m steel rope 12mm OD

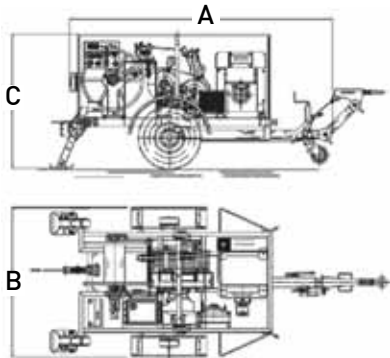
UG PULLING MACHINES

110kN-OMAC



MODEL NO. F 280.P.100 PULLING MACHINE

			
Max Rope Diameter (mm OD)	Drum Capacity (m)	Engine Power (kW)	Max Continuous Pull Force (kN)
16	1,000 (16mmOD) 1,500 (14mmOD)	48	110



Model No. F 280.P.100

A x B x C = 3.30 x 1.95 x 1.70m
Weight (without rope) = 2800kg

Hydraulic puller suitable for pulling one underground transmission cable. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel.
- Electronic device operating as dynamometer, metre-counter, speedometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Built-in reel-winder with automatic rope-winder and extractable reel.
- Chassis with rigid axle, hand brake and drawbar for towing at low speed in workplace.
- Mechanical stabilisers on pull side and manual jack-arm with wheel on tow side.
- Metal cover with side doors.
- Oil cooling system.
- Pulley for rope predisposed for telescopic rod.

OPTIONAL DEVICES

- 007 Amortised axle, overrun braking system, drawbar and lights for towing on road (Registration excluded).
- 005.1 Amortised tandem axle with pneumatic braking system (fit for machine with 1000m of rope 16mm OD, weight 3900kg).
- 005.2 Tandem axle with torsion bar suspensions, overrun braking system and lights (Registration excluded),
- 028 Silenced diesel engine.
- 028.1 Water cooled diesel engine.
- 037 Removable control lever with 10m of cable.
- 038 Radio-control (max distance 50m).
- 067.1 Telescopic rod for underground operations (Model. F 276).
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull.
- 074.2 Steel rope.
- 082 Device for setting the pull force, which allows force holding at no speed.

TECHNICAL



CAPSTANS & ROPE

Capstans 2 x 350mm OD
Max rope diameter 16mm

ENGINE

Diesel
Power 48kW
Cooling Air
Electric System 12VDC

PULL PERFORMANCES

Max-pull 110kN
Speed at max pull 14m/min
Max speed 30m/min
Pull at max speed 45kN

REEL

Type Extractable
Diameter 950mm

CAPACITY





1000m steel rope 16mm OD
1500m steel rope 14mm OD

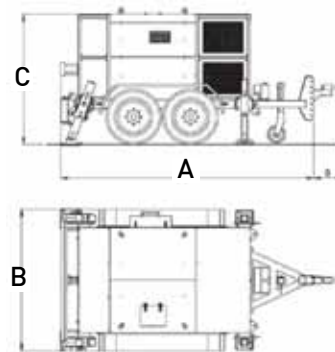
UG PULLING MACHINES

200kN-OMAC

MODEL NO. F 290.P.200 PULLING MACHINE



			
Max Rope Diameter (mm OD)	Drum Capacity (m)	Engine Power (kW)	Max Continuous Pull Force (kN)
20	850 (18mmOD) 750 (20mmOD)	50	200



Model No. F 290.P.200

A x B x C = 3.50 x 2.00 x 1.70m
Weight (without rope) = 3200kg

Hydraulic puller suitable for pulling one underground transmission cable. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel.
- Electronic device operating as dynamometer, metre-counter, speedometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Built-in reel-winder with automatic rope-winder and extractable reel.
- Chassis with rigid axle, hand brake and drawbar for towing at low speed in workplace.
- Mechanical stabilisers on pull side and manual jack-arm with wheel on tow side.
- Metal cover with side doors.
- Oil cooling system.
- Pulley for rope predisposed for telescopic rod.

OPTIONAL DEVICES

- 005.1 Tandem suspension axle with pneumatic braking system (fit for machine with 1000m of rope 16 mm dia., weight 3900kg circa).
- 005.2 Tandem axle with torsion bar suspensions, overrun braking system and lights (homologation excluded),
- 028 Silenced diesel engine.
- 037 Removable control lever with 10m of cable.
- 038 Radio-control (max distance 50m).
- 053.1 Motorised rubber caterpillars.
- 067.1 Telescopic rod for underground operations (Model No. F 276).
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull.
- 074.2 Steel rope.
- 082 Device for setting the pull force, which allows force holding with no speed.

TECHNICAL



FEATURES

Capstans 2 x 350mm
Max rope diameter 20mm

ENGINE

Diesel
Power 50kW
Cooling Water
Electric System 12VDC

PULL PERFORMANCES

Max-pull 200kN
Speed at max pull 8m/min
Max speed 20m/min
Pull at max speed 60kN

REEL

Type Extractable
Diameter 950mm

CAPACITY





850m steel rope 18mm OD
750m steel rope 20mm OD

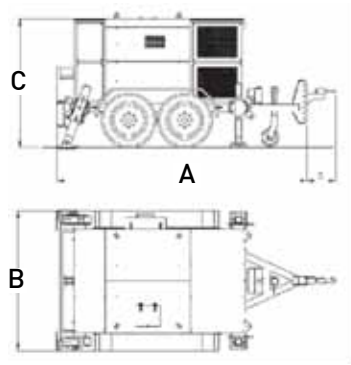
UG PULLING MACHINES

450kN-OMAC



MODEL NO. F 260.P.R.400.S PULLING MACHINE

 Max Rope Diameter (mm OD) 32	 Drum Capacity (m) 800 (32mmOD) 1,000 (30mmOD)	 Engine Power (kW) 80	 Max Continuous Pull Force (kN) 450
---	--	---	--



Model No. F 260.P.R.400.S

A x B x C = 5.45 x 2.50 x 2.45m
Weight (without rope) = 10,500kg
(14,500kg with 800 m of rope 32mm OD)

Hydraulic puller suitable for pulling one underground transmission cable. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel.
- Electronic device operating as dynamometer, metre-counter, speedometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Built-in reel-winder with automatic rope-winder and extractable reel.
- Tandem axle with torsion bar suspensions, air braking system, hand parking brake, lights and adjustable drawbar for towing road.
- Mechanical stabilisers on front and back sides.
- Metal cover with side doors.
- Oil cooling system.
- Pulley for rope predisposed for telescopic rod.

OPTIONAL DEVICES

- 009 Spare tire.
- 037 Removable control lever with 10 m of cable.
- 038 Radio-control (max distance 50 m).
- 051.3 Motorised rubber caterpillars.
- 067.1 Telescopic rod for underground operations (Model No. F 276).
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull.
- 074.2 Steel rope.
- 097.1 Hydraulic device to get a loadless speed of 40m/min.
- 123 Device for setting a max pulling force at which the speed is automatically decreased (Even to stop).

TECHNICAL

FEATURES

Capstans 2 x 580mm OD
Max rope diameter 32mm

ENGINE

Diesel
Power 80kW
Cooling Water
Electric System 12VDC

PULL PERFORMANCES

Max-pull 450kN
Speed at max-pull 4.5m/min
Max speed 28m/min
Pull at max speed 80kN

REEL

Type Extractable
Diameter 1000mm

CAPACITY

800m steel rope 32mm OD
1000m steel rope 30mm OD
(weight of the rope 4000 kg)



UG PULLING MACHINE ACCESSORIES

TELESCOPIC RODS FOR UNDERGROUND MACHINES



Telescopic rods for pulling wire rope inside underground pits and conduits. Guide system with 360° swivelling pulley. Equipped with demountable centre fit for pipe diameters 80, 100, 120 and 150mm.



Model No. F 276.200



Model No. F 276.60
Model No. F 276.100



Model No. F 277.20
Model No. F 277.40



Model No. F 278.20
Model No. F 278.40

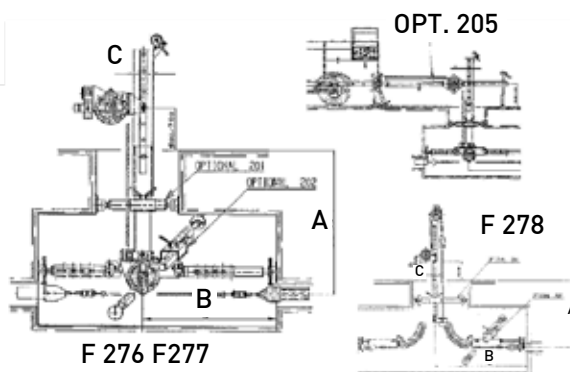
F 276 Telescopic rod for pulling wire rope inside underground pits. Guide system with 360° swivelling pulley.

F 277 Telescopic rod for guiding wire rope inside underground pits. Guide system with 360° swivelling pulley. Equipped with roller device allowing a reserve of cable. Demountable centre suitable for pipe diameters 80, 100, 120 and 150mm.

F 278 Telescopic rod for laying underground cables. Mounted on pullers allowing the pull of wire rope inside pits/manholes. Made with galvanised/painted steel, rods are easily demountable for transport.

OPTIONAL

- 201 Supplementary reaction upper arm.
- 202 Reaction arm (90° respect to the pull line).
- 204 Interchangeable, demountable and opening centre for pipes 80, 100, 120 and 150mm (standard for mod. F 277 e F 278).
- 205 Telescopic strut with pulley to space the puller from the manhole.
- 206 Hydraulic control of the rod extension (only for mod. F 276 e F 277).



Model No.	Max Pull Force (kN)	[A] Pit Depth Min/Max (mm)	[B] Distance from Pipe Min/Max (mm)	[C] Rod Width (mm)	Rod Weight (kg)	Reserve of Cable (m)
F 276.60	0.6–1.0	500/2000	1000/1500	120	150	-
F 276.100	1.0–1.5	500/2000	1400/1800	150	200	-
F 276.200	2.0	1000/2000	1500/2000	200	350	-
F 277.20	0.2	0/1500	400/700	60	55	-
F 277.40	0.3–0.4	0/1500	400/700	80	50	-
F 278.20	0.2	0/1500	1000/1400	60	55	2.5
F 278.40	0.3–0.4	100/2000	1000/1500	80	100	3.0

BRIGHT STEEL WIRE ROPE

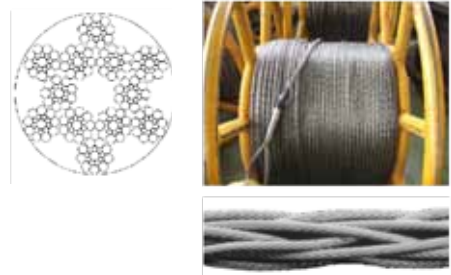
C 02...AC	C 02...AL	C 02...LR
Bright steel rope 216 wires + steel core. Construction 6 (14+7/7+7+1) WS+WR. Right and left crossed. UNI 7297-74. Resistance of wires: 180kg/mm ² OPTIONAL - Galvanised	Bright steel rope 216 wires + textile core. 6 (14 + 7/7 + 7 + 1) WS + FC Right crossed. UNI 7297-74. Resistance of wires: 180 kg/mm ²	Bright steel rope 133 wires. Construction 19x7. Lang lay or regular lay. Resistance of wires 200 kg/mm ² OPTIONAL - Galvanised
Image	Image	Image

Nominal OD (mm)	Wires OD (mm)	WLL 3:1 (kN)	UTS (kN)	Wt (kg/m)	Nominal OD (mm)	Wires OD (mm)	WLL 3:1 (kN)	UTS (kN)	Wt (kg/m)	Rope OD (mm)	Wires OD (mm)	Sect (mm ²)	WLL kN	UTS kN	Wt (kg/m)
6	0.38	9.1	27.2	0.15	6	0.33	7.2	21.5	0.14	6	0.38	16.5	8.7	8.7	0.15
8	0.50	15.8	47.3	0.28	8	0.44	12.7	38.0	0.24	8	0.51	29.3	16.0	16.0	0.27
10	0.62	25.0	75.0	0.43	10	0.57	20.0	60.0	0.38	10	0.64	45.7	24.0	24.0	0.41
11	0.68	29.7	89.0	0.52	11	0.63	24.2	72.5	0.46	11	0.70	55.3	29.1	29.1	0.50
12	0.75	36.0	108.0	0.62	12	0.68	28.7	86.0	0.55	12	0.76	65.8	34.7	34.7	0.60
14	0.77	43.7	131.0	0.82	14	0.80	40.0	120.0	0.74	13	0.83	77.3	40.7	40.7	0.70
16	0.88	56.0	168.0	1.07	16	0.90	52.7	158.0	0.96	14	0.89	89.6	47.0	47.0	0.81
18	0.99	73.3	220.0	1.35	18	1.00	66.7	200.0	1.20	16	1.02	117.0	61.7	61.7	1.06
20	1.10	90.0	270.0	1.68	20	1.12	82.7	248.0	1.49	18	1.15	148.0	78.0	78.0	1.34
22	1.22	106.7	320.0	2.03	22	1.24	99.7	299.0	1.82	Regular Lay					
24	1.33	126.7	380.0	2.40	24	1.34	116.7	350.0	2.14	20	1.27	183.0	96.0	93.7	1.66
26	1.44	150.0	450.0	2.83	26	1.43	136.7	410.0	2.48	22	1.40	221.0	116.3	113.3	2.01
28	1.55	168.0	504.0	3.30	28	1.55	163.3	490.0	2.99	24	1.53	263.0	138.3	135.0	2.39
30	1.66	200.0	600.0	3.80	30	1.66	189.7	569.0	3.45	26	1.65	309.0	162.3	158.3	2.81
32	1.77	223.3	670.0	4.33											
34	1.88	250.0	750.0	4.87											
36	2.00	280.0	840.0	5.47											
38	2.10	313.3	940.0	6.07											
40	2.20	346.7	1040.0	6.77											

ANTI-TWIST STEEL ROPE

Square-section anti-twisting galvanised steel rope specifically designed for stringing operations, made from 12 braided strands. Highly resistant to breaking and twisting, but flexible, safe and easy to handle. The linear contact between the braided strands grants a low stress of the rope.

- Supplied with spliced eyes at ends
- Wound up on steel or wooden reels as optional.



OPTIONAL

- 146.3 Clamped eyes instead of spliced eyes.
147 Lengths different from the standard ones.
059 Metallic reel Model No. F162
148 Wooden reel

Model No.	Nominal OD (mm)	No. of Strands	WLL (kN)	UTS (kN)	Wt (kg/m)	Typical Lengths (m)
21.12.06.1	6	12	8.3	25.0	0.14	1000 - 1600 - 3200
21.12.08.1	8	12	14.7	44.0	0.22	1000 - 1600
21.12.09.1	9	12	17.2	51.5	0.25	500 - 1000 - 1600
21.12.10.1	10	12	24.0	72.0	0.35	500 - 1000 - 1600
21.12.11.1	11	12	31.3	94.0	0.42	500 - 800 - 1000 - 1600
21.12.13.1	13	12	33.5	100.6	0.55	800 - 1000 - 1600
21.12.16.1	16	12	53.4	160.3	0.80	900 - 1000 - 1600
21.12.18.1	18	12	76.8	230.5	1.07	800 - 1000 - 1200
21.12.20.1	20	12	86.9	260.8	1.24	1000
21.12.22.1	22	12	110.0	330.0	1.56	900
21.12.24.1	24	12	126.7	380.0	1.76	800
21.12.26.1	26	12	136.9	410.6	2.29	800
21.12.28.1	28	12	146.7	440.0	2.57	800
21.12.30.1	30	12	160.0	480.0	3.12	800

Bold values are standard lengths

SEE NEXT PAGE FOR REELS

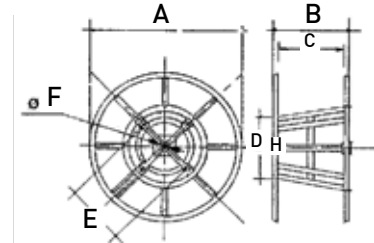
STEEL REELS

F 16 SERIES STEEL REELS FOR ROPES



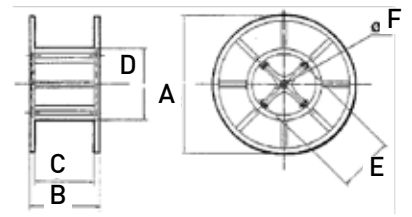
Model No. F 164

Model No. F 164
Painted steel conical reel with opening side. The opening side and the drum is cone shaped which allows easy removal of the wire. Complete with demountable dial
OPTIONAL
01 Galvanised.
02 Pair of standard dials.
03 Pair of dials equipped with ball bearings.
05 Drum core covered with sheet metal.



Model No. F 162

Model No. F 162
Painted steel reel for wire, complete with demountable central dial.
OPTIONAL
01 Galvanised.
02 Pair of standard dials.
03 Pair of dials equipped with ball bearings.
04 Reinforced reel, made of square tubular (30% heavier than std version)



TECHNICAL

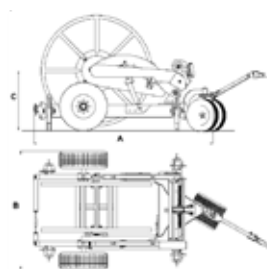
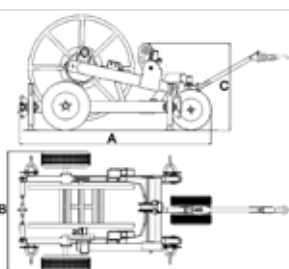
Fixed Type Model No.	Opening Type Model No.	DIMENSIONS (mm)						Fixed Type Wt (kg)	Opening Type Wt (kg)
		A	B	C	D	E	F		
F 162.060	F 164.060	620	410	360	220	160	25	27	30
F 162.110	F 164.110	1,100	560	460	570	420	50	66	70
F 162.140	F 164.140	1,400	560	460	570	420	50	105	115
F 162.160	F 164.160	1,600	560	460	570	420	50	115	125
F 162.180	F 164.180	1,900	560	460	570	420	50	125	145
F 162.190	F 164.190	1,900	680	560	700	500	70	140	160
F 162.220	F 164.220	2,250	1,000	860	800	600	100	450	540

REEL CAPACITY¹

Reel OD (mm)	620	1100	1400	1600	1800	1900	2200
Fixed	F 162.060	F 162.110	F 162.140	F 162.160	F 162.180	F 162.190	F 162.220
Opening	F 164.060	F 164.110	F 164.140	F 164.160	F 164.180	F 164.190	F 164.220
Rope OD (mm)							
6	2,000	7,000	14,000	18,000	23,000	30,000	-
7	1,500	6,000	12,000	12,000	15,000	20,000	-
8	1,000	4,000	6,000	10,000	12,000	15,000	-
9	900	3,000	4,000	8,000	10,000	12,000	-
10	800	2,500	4,000	6,000	8,000	10,000	-
11	500	2,000	3,000	5,000	7,000	8,000	-
12	450	1,800	3,000	4,000	5,500	7,000	-
13	400	1,600	2,400	3,500	5,000	6,000	13,000
14	300	1,200	2,200	3,000	4,000	5,000	11,000
16	250	900	1,800	2,500	3,000	4,000	8,500
18	-	800	1,400	2,000	2,500	3,000	7,000
20	-	650	1,000	1,600	2,000	2,500	5,000
22	-	550	900	1,200	1,600	2,000	4,500
24	-	-	800	1,000	1,400	1,800	3,600
26	-	-	700	900	1,200	1,500	3,400
28	-	-	600	800	1,000	1,200	2,800
30	-	-	500	700	900	1,000	2,400
32	-	-	450	600	800	1,000	2,000

¹Note: Capacities are indicative only and depend on the type of rope

F 106 SERIES REEL WINDER TROLLEYS



Series. F 106

Reel-winder trolley fit for reel transport and wire recovering/releasing, designed to be used with pullers, puller-tensioners or hydraulic power units, from which receives the transmission needed to move the reel. It can even be fitted with its own motor.

- Bi-directional hydraulic engine, controlled directly by the machine's panel through flexible pipes, suitable for moving the reel by means a reduction unit.
- Neutral device to unwind the rope easily.
- Hydraulic-lifted reel-carrier broach operated by manual pump.
- Automatic rope-winder complete with rope-driver rollers, fits for winding three different diameters of rope on the reel. The rope-winder may be operated also manually.
- Frame with three tires, one of them steering with drawbar, fits for shifting in the yard.
- Mechanical stabilisers and joints for anchoring and lifting the reel-winder.
- Devices for locking mechanically the reel rotation.

OPTIONAL

- 078.1 Set of flexible hoses for feeding the drive unit (lengths available: 5, 10, 15 m).
- 416 Negative safety brake that self-operates in case of pressure drop in the feeding hydraulic circuit.
- 417 Installation of a diesel engine that operates a hydraulic power unit, fits to get the reel-winder become autonomous.
- 438.2 Device that allows lifting of reel using the reel-rotation circuit.

Model No. F 106.230

Reel-winder trolley designed for recovering/pulling and releasing ropes and conductors to/from steel reels. The reel is operated by a hydraulic motor fed by a separated power unit that -by means of flexible hoses- can operate the reel-winder either pulling/recovering or tensioning.

- Hydraulic motor with reduction group connected to the spindle.
- Negative safety brake self-operating in the event of hydraulic breakdown.
- Reel-carrier arms with hydraulic lifting of reel, operated through a manual pump.
- Rigid axle, tires, hand brake and drawbar for towing at low speed in workplace.
- Adjustable pivoting reel.
- Mechanical stabilisers and attachments for anchoring and lifting the machine.
- Reel arm fit for reels max OD 2.2m, max width 1m
- Spindle with dragger and bushes for reels.
- Steel reel mod. F 162.220
- Automatic rope-winder, fit to stratify the different diameters of rope on the reel. The rope-winder can be operated manually too.

OPTIONAL

- 005.1 Tandem axle & torsion bar susp, air brake system & lights.
- 006 Pneumatic brake system & lights.
- 008 Axle & spring susp, drawbar, pneumatic brake system, lights and tyres for towing on the road at 60km/h. (Rego excluded).
- 059 Metallic reel F 162.220
- 096.1 Hydraulic power unit with Petrol engine to control the reel-lifter and stabilisers.
- 417.1 Hydraulic power unit with diesel engine placed on the trolley for autonomous usage in conductor braking and recovering.
- 419.2 Automatic rope-winder, fit to stratify the different diameters of rope on the reels of different width.

Model No	ReelMax (m)	Max Load (kg)	Rope (mm OD)	Max Pull (daN) ¹	Max Speed (km/h) ¹	Dim. AxBxC (m)	Wt (kg)	Option 417			
								Power (kW)	Max Pull (kN) ²	Speed @ Max Pull (m/min) ²	Max Speed (m/Min)
F 106.110	1.1	1,200	10, 13, 16	150	4	1.7x1.3x1.0	450	-	-	-	-
F 106.140	1.6	2,000	16, 18, 20	250	5	2.0x1.4x1.4	700	-	-	-	-
F 106.180	1.9	3,000	18, 20, 24	300	5	2.5x1.8x1.4	1200	-	-	-	-
F 106.110-417	1.1	1,200	10, 13, 16	Refer Option 417 columns far left		2.0x1.3x1.0	540	4.4	2	30	65
F 106.140-417	1.6	2,000	16, 18, 20			2.2x1.4x1.4	800	5.9	3	30	65
F 106.180-417	1.9	3,000	18, 20, 24			2.5x1.4x1.4	1350	7.3	4	30	65

¹ Obtained when connected to hydraulic puller or puller-tensioner

² On the middle layer

Model No	Reel Min/Max OD (mm)	Reel Max Width (mm)	Max Reel Wt (kg)	Reel Capacity # F 162.220 ² Rope (mm OD)/Length (km)	Max Recovery Force (kN) ¹	Max Speed (km/h)
F 106.230	1,400-2,200	1,000	8,000	13/14, 16/9, 18/7, 20/6, 24/4, 26/3.5, 28/3	5	5

¹ Rope wound up to diameter 2m.

² Dimensions 225 x 84 x 86cm

REEL STANDS

F 15 SERIES REEL STANDS

OMAC
ITALY



Model No. F 157



Model No. F 157 showing optional 410.1 Disc brake

Series F 157

Reel-cradle suitable for lifting and unwinding a reel of wire. Welded and painted steel. Completely demountable for easy transportation. Complete with reel shaft.

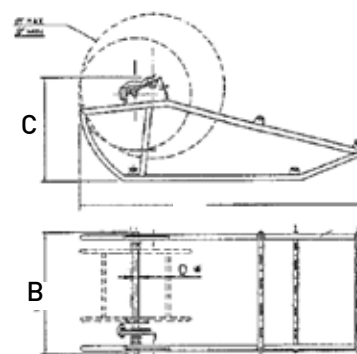
OPTIONAL

402 Conical bushes for wooden reels.

410.1 Disc brake.

405.1 Galvanised finish.

Model No.	Reel Diameter - Min/Max (m)	Overall Dimensions AxBxC (m)	Spindle OD (mm)	Load (kN)	Wt (kg)
F 157.14	0.95-1.40	2.1 x 1.3 x 0.9	50	10	65
F 157.14.S	1.10-1.40	2.5 x 1.3 x 1.0	50	20	90
F 157.18	→1.90	3.0 x 1.1 x 1.1	50	26	160



Model No. F 158



Model No. F 158 showing optional 410.1 Disc brake and 408 Hydraulic drive

Series F 158

Reel-stand for steel/wood reels.

Demountable steel framework. Complete with reel shaft.

OPTIONAL

402 Conical bushes for wooden reels.

410.1 Disk brake (steel & wood reels (max speed : 5 km/h. Braking torque 1.5kN for F 158.20 & F158.25, 1.0kN for F 158.S.10).

408 Hydraulic drive (Requires hydraulic power). With quick joints.

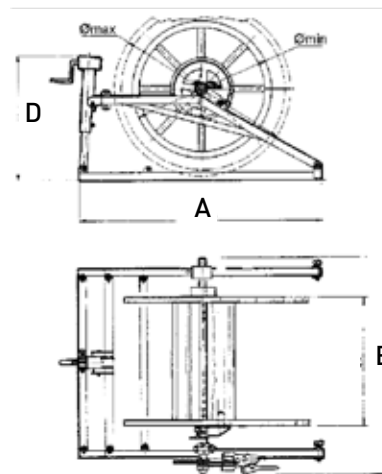
405.1 Galvanised finish.

078.2 Flexible hoses (7 m long) with quick couplings.

F 158.S Special version for braked unwinding at high speed (up to 10 km/h), with positive-brake device operated by hand.

Model No.	Reel Diameter Min/Max (m)	Reel Width C (m)	Overall Dimensions AxBxD (m)	Spindle OD (mm)	Load (kN)	Wt (kg) ¹
F 158.20	0.95-1.40	1.0	1.9x1.6x1.1	50	15	125
F 158.25	1.10-1.90	0.8	2.1x1.3x1.2	50	25	200
F 158.S.10	0.95-1.40	0.7	1.9x1.3x1.1	50	10	110

¹ Without Disc Brake, add approx. 70kg more for disc brake



F 155 SERIES REEL STANDS



Two stands (Supplied as pair) suitable for steel or wooden reels, useful for lifting and braking of reel while stringing conductor. Optionally, it can hydraulically drive the reel by means of the power supplied by a hydraulic power unit, puller or puller tensioner.



Model No. F 155



Option 408



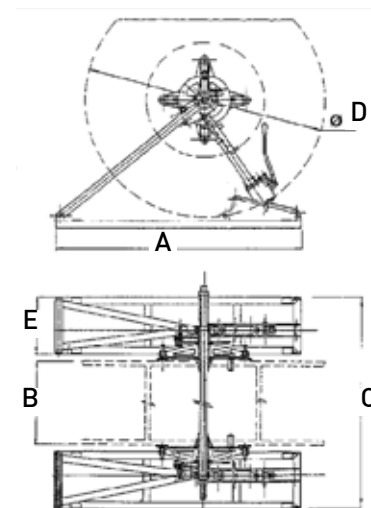
Option 449



Model No. F 155



Model No. F 155.70.SM



FEATURES

- 1 self-braking disk brake.
- Each stand can be raised or lowered independently by a hydraulic hand pump.
- Mechanical safe-stops mounted on the jack arm (**Model No. F155...LT only**).
- Lateral supports with ball bearings.
- Spindle complete with accessories.
- Max speed of the reel: 100m/min.
- Conical bushes for wooden reels (diameter on demand).
- Welded and painted steel framework with attachments to anchor the machine.

OPTIONAL

- 401** Devices for for steel reels, bushes to centre the reel hole (diameter on demand).
- 408** Hydraulic drive for reel rotation, recover/release (Requires power).
- 078.1** Set of flexible hoses for drive unit, (lengths available: 5, 10, 15 m).
- 423** Auxiliary disc brake (for a total of 2).
- 418** Wheels for ease of movement.
- 449** Stabiliser legs for uneven grounds (Model No. F155...LT only)

TECHNICAL

Model No.	Reel OD Min/Max (m)	Reel Width Max (m)	Dimen. Each Axle Stand AxE (m)	Spindle OD (mm)	Set Wt (kg)
F 155.20.LT	0.8 – 2.0	1.4	1.60 x 0.45	35	195
F 155.40.LT	1.0 – 2.4	1.5	1.70 x 0.50	40	230
F 155.40.SM	0.7 – 2.2	1.3	1.50 x 0.50	40	230
F 155.70.SM	1.0 – 3.0	1.5	2.10 x 0.60	45	320

Model No.	Max Load of Pair (kN)	Braking Torque		Option 408 – Hydraulic Drive			
		Std - 1 Brake (kN/m)	Opt - 2 Brake (kN/m)	Max Torque Brake (kN/m)	Max Torque Recover (kN/m)	Max Speed (km/h)	Max Revs (rpm)
F 155.20.LT	20	1.0	2.0	1.25	1.0	5	50
F 155.40.LT	40	1.0	2.0	1.50	1.2	4	50
F 155.40.SM	40	1.0	2.0	1.20	2.0	4	50
F 155.70.SM	70	1.5	3.0	1.80	3.0	5	50

REEL STANDS

F 155 SERIES REEL STANDS



Two stands (Supplied as pair) suitable for steel or wooden reels, useful for lifting and braking of reel while stringing conductor. Optionally, it can hydraulically drive the reel by means of the power supplied by a hydraulic power unit, puller or puller tensioner.



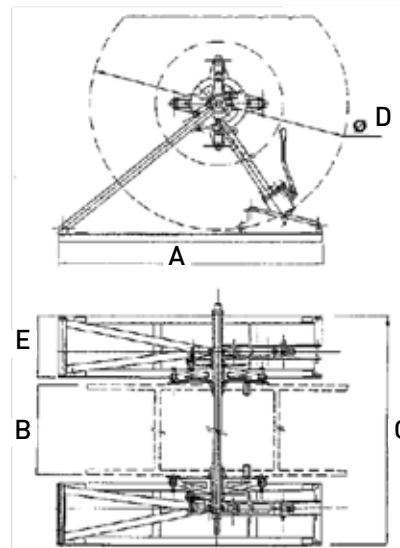
Model No. F 155



Option 408



Option 410.3



FEATURES

- 1 self-braking disk brake.
- Each stand can be raised or lowered independently by a hydraulic hand pump.
- Mechanical safe-stops mounted on the jack arm
- Lateral supports with ball bearings.
- Spindle complete with accessories.
- Conical bushes for wooden reels (diameter on demand).
- Welded and painted steel framework with attachments to anchor the machine.
- Metal box for accessories

OPTIONAL

- 401 Devices for steel reels, bushes to centre the reel hole (diameter on demand).
- 408 Hydraulic drive for reel rotation, recover/release (Requires power).
- 410.3 1 or 2 disc brakes with hydraulic clamp controlled by manual pump.
- 078.1 Set of flexible hoses for drive unit, (lengths available: 5, 10, 15 m).
- 423 Additional disc brake (2 brakes in total)
- 419.1 Automatic/manual rope-winder suitable for standard reels.

TECHNICAL

Model No.	Reel OD Min/ Max (m)	Reel Width Max (m)	Dimen. Each Axle Stand Ax E (m)	Spindle OD (mm)	Set Wt (kg)
F 155.070	0.8 – 2.8	1.5	2.1 x 0.5	45	350
F 155.080	1.5 – 3.2	1.6	2.4 x 0.5	50	500
F 155.120	2.0 – 3.5	2.4	2.7 x 0.6	65	850
F 155.150	2.0 – 4.0	3.0	2.7 x 0.6	95	1,100
F 155.180	2.0 – 4.0	3.0	3.1 x 0.6	95	1,250

Model No.	Max Load of Pair (kN)	Braking Torque		Option 408 – Hydraulic Drive			
		Std - 1 Brake (kN/m)	Opt 423 – 2 Brake (kN/m)	Opt 410.3 (kN/m)	Max Torque Brake (kN/m)	Max Torque Recover (kN/m)	Max Speed (km/h)
F 155.070	70	1.5	3.0	-	2.25	1.8	5
F 155.080	80	2.0	4.0	6.0	2.50	2.0	5
F 155.120	120	2.0	4.0	8.0	2.87	2.3	5
F 155.150	150	2.0	4.0	10.0	3.12	2.5	5
F 155.180	180	2.5	5.0	12.0	3.75	3.0	5

REEL STANDS & WINDER (Available options)



REEL STANDS UP TO 500kN



REEL WINDER/UNWINDERS



REEL TRAILERS



MACHINE ACCESSORIES

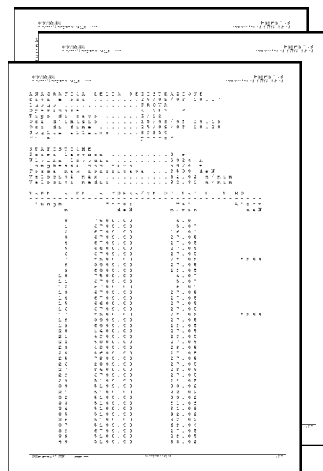
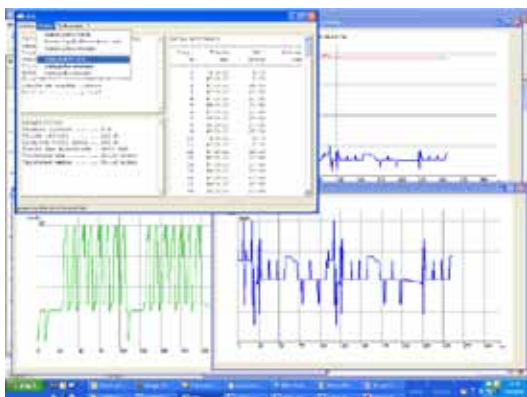
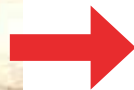
ELECTRONIC INSTRUMENTS



Electronic digital display and interface for control and status of the machine.
Suitable for pullers, tensioners and puller-tensioners. Two versions available:
DEG-V and DEG-M

DEG-V displays in real time the pull force, the speed and length of cable (Up to 240,000 samples, approx. 200km of line). It is easy to use and has hour and date display. It also allows setting of the maximum pull-force limit with alarm.

DEG-M* in addition to the functions of the DEG-V functions, it allows storage of the data monitored, and then allows the data to be copied to a USB memory stick for transfer to a computer.








* The instrument DEG-M can also be equipped with a portable thermal printer for printing the stored data. Model No. DEG-VAL. The printer is supplied with cable for connection to the plug on the instrument, 3 reels of paper and an aluminium case (37x25x10cm) for safe transport and storage.

REMOTE CONTROLS REC SERIES

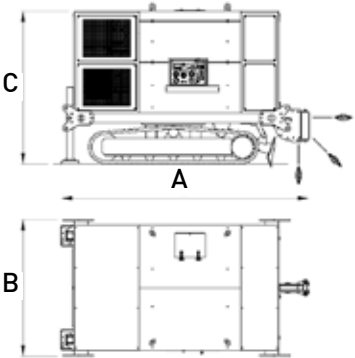


For control of machine, wireless and with cable connection.

NOTE: Most machines require original factory installed electronic equipment to be able to use the remote controls.

Model No.	Picture	Type	Description
REC.1		Cable	Remote control with cable with control stick for the capstans rotation, suitable for 1-circuit machines "puller" and "puller-tensioner" installed with pumps with electronic controls. Max operative distance is 30m.
REC.2		Cable	Remote control via cable, suitable for 1-circuit machines "puller" and "puller-tensioner" installed with pumps with electronic controls. Max operative distance is 30m. OPTIONAL <ul style="list-style-type: none"> • Installation of a dynamometer to read the pulling force, with pre-selection of the max force desired. • Metre counter and speedometer. • Start/stop of the engine. • Engine accelerator.
REC.3		Cable	Remote control via cable, suitable for 2-, 3-, or 4-circuit machines "puller" and "puller-tensioner". Max operative distance: 30 m. OPTIONAL <ul style="list-style-type: none"> • Installation of a dynamometer to read the pulling force, with pre-selection of the max force desired. • Metre counter and speedometer. • Start/stop of the engine. • Engine accelerator.
RER.1	 	Wireless	Radio control suitable for machines "puller" and "puller-tensioner" installed with pumps with electronic controls. Max operative distance: up to 150 m. FEATURES <ul style="list-style-type: none"> • Capstans rotation control stick (puller use) • Speed regulation control (puller use) • Tension force regulation (tensioner use) • Emergency stop OPTIONAL <ul style="list-style-type: none"> • Installation of a dynamometer to read the pulling force, with pre-selection of the max force desired. • Metre counter and speedometer. • Start/stop of the engine. • Engine accelerator.

MODEL NO 051.3 CATERPILLAR TRACKS



Some machines can be equipped with high resistance rubber caterpillar tracks.

FEATURES

- The caterpillar system allows manoeuvrability in small areas, raise up on inclined paths and to reach a speed of 2 km/h
- Less damage to public, private or protected grounds
- Power transmission supplied by the hydraulic circuit of the puller
- Self-acting negative parking brakes interposed between the transmission gear-boxes
- Reversible movement
- Radio-control
- Hydraulic controlled share on the pull side, for anchoring the machine
- Back stabilizers
- Front and back hooks for towing the machine

Performance	
Speed (Moving)	Adjustable
Max Speed	Standard 2km/hr Optional 4km/hr
Max Inclination	80%
Minimum Turn Circle	4.5m
Specific Load to Soil	0.26kg/cm3

Examples Of Application	
Puller Model No. F 275.P.40	
Dimensions (m)	2.15 x 1.8 x 1.4
Total Weight (kg)	1,800
Puller Model No. F 285.P.100	
Dimensions (m)	2.86 x 1.85 x 1.87
Total Weight (kg)	3,600
Puller Model No. F 260.PR.400.S	
Dimensions (m)	4.50 x 2.2 x 2.6
Total Weight (kg)	12,500

Dimensions and weight of standard machine with caterpillar, with no other optional devices or rope. For performances and features of the machine, please read its data sheet.

SDTH-1000 CABLE TRAILERS (AUSTRALIAN MADE)



Australian made galvanised frame cable trailers with mechanical brakes supplied as standard. Trailers come with a VIN number ready for the road but customer will need to organise on road costs. All models come with axle, cones and collars and SDTH-1000 comes with self-loading mechanism.

Contact for more information on accessories such as Electric Power Packs and/or Honda motors or special customised designs.

Model No	Maximum Lift (kg)	# of Drums	Max Drum Diam (mm)	Max Drum Width (mm)
SDT-500	500	1	1200	1200
SDTH-1000	1000	1	1500	1300
SDT-1500	1500	1	1500	1300
SDT-2500	2500	1	1500	1500



SDTH-1000 pictured



CABLE PUSHER

CABLE PUSHING MACHINES



Model No.	F 224.08
Description	Powered by hydraulic power pack (Included), suitable for underground cable laying in long conduits and hard conditions. When used in conjunction with a pulling machine it helps avoid high stress on cables. Can be operated at a distance.
Pusher Unit	
	<ul style="list-style-type: none"> - Welded steel frame with lifting and anchor points - Constant pressure upper rollers, avoiding slippage - Cable can be side loaded/unloaded - Reversible
Power Unit	
	<ul style="list-style-type: none"> - Permits adjustment of the pushing force and speed by control valve - Complete with wheels and handles - Supplied with 5m hoses
Performance	
Push/Pull Force (kN)	0-8
Push/Pull Speed (m/min)	0-15
Cable Diameter (mm)	40-135
Track Belt Length (mm)	800
Motor	
Power Source	Hydraulic (Petrol), Includes Power Pack Unit
Power (kW)	4.6
Protection	
Extra Details	Cooling – Air Start – Manual Oil Flow – 20L/min@90Bar Max Pressure – 150Bar
Optional Extras	
Accessories	078 Longer Hoses (10m instead of 5m) 418 Wheels for cable pusher machine 090 Power unit with single phase electric motor 090.1 Power unit with 3 phase electric motor RCI Hydraulic device to control the pressure of upper rollers over the cable
Machine	
LxWxH (mm)	1.30 x 0.35 x 0.80
Weight (kg)	65



NOTES

[illegible]

F. OVERHEAD CONSTRUCTION & STRINGING EQUIPMENT

F1 – F72

WIRE GRIPS-HITool-NGK	F1-F6
WIRE GRIPS "ABC"-HITool-NGK	F7
WIRE GRIPS-INTERCHANGEABLE LINER-RIGANTI	F8-F10
SERVICE LINE TENSIONERS	F11
WEB STRAP PULLER- HITool – NGK	F11
CABLE GRIPS	F12-F17
CABLE GRIPS FITTING INSTRUCTION	F18-F19
CABLE GRIP-TRANSMISSION	F20
LINE SWIVELS – DCD	F21
BREAK AWAY SWIVELS & FUSES, AND ARTICULATED SWIVELS	F22
FIXED JOINTS – OMAC	F23
ROPE TO ROPE & ROPE TO SWIVEL CONNECTORS – DCD	F24
ROPE-STEEL WIRE-ANTI-TWIST	F25
ROPE-HIGH STRENGTH DYNEEMA	F26
ROPE-DOUBLE BRAIDED	F27
ROPE-INSULATING	F28
HAND-LINE BLOCK – POWAQUIP	F29
BPE-1 PULLING EYE – POWAQUIP	F29
RUNNING BOARDS – OMAC	F30
JOINT COVERS – OMAC	F31
PORTABLE STRINGING EARTH – OMAC	F32
ONLINE CLEARANCE STORE	F33
POLE PLATFORM	F33
CONDUCTOR BICYCLE AND TROLLEYS – OMAC	F34
CONDUCTOR TROLLEYS – OMAC	F35-F38
SUSPENSION PLATFORMS – OMAC	F39
SUSPENSION LADDERS – OMAC	F40-F42
MISCELLANEOUS EQUIPMENT	F43
WORK PLATFORM & SAGGING SCOPE – OMAC	F44
METRE COUNTERS – OMAC	F45
ROLLERS ABC & INSULATOR	F45
UNIVERSAL ROLLER & ACCESSORIES – POWAQUIP	F46
OVERHEAD ROLLERS – CROSSARM & HANGING	F47-F48
STRINGING ROLLERS, HELICOPTER & BUNDLE – POWAQUIP	F49-F50
SINGLE STRINGING ROLLERS – OMAC	F51
MULTIPLE STRINGING ROLLERS – OMAC	F52
HELICOPTER STRINGING ROLLERS – OMAC	F53-F54
SPECIAL ROLLERS & BLOCKS – OMAC	F55-F56
SNATCH BLOCKS – OMAC	F56
TRACTION ROBOT – OMAC	F58
CABLE TRAILER	F59
STRINGING MACHINERY SELECTION – OMAC	F60
STRINGING MACHINE-PULLER 40kN – OMAC	F61
STRINGING MACHINE-PULLER/TENSIONER 45-90-150kN – OMAC	F62-F67
STRINGING MACHINE-PULLER 150kN-160kN – OMAC	F68-F69
MACHINE ACCESSORIES – OMAC	F70-F72

For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

WIRE GRIPS

HI-TOOL NGK WIRE GRIPS (MADE IN JAPAN)

HI-TOOL CO., LTD

- All models are fitted with swing down safety latch, with most models including a patented one handed trigger grip as standard.
- Convenient sized and special shaped pulling eyes to suit all brands of strap hoists.
- All gripping jaws are produced with new technology to increase jaw life.
- Grips are designed to be more cost effective by being able to be used over a wider range of cable diameters
- 40, 50 & 60kN grip models feature a twist grip design which prevents cable damage (Refer page F6)



WIRE GRIP QUICK SELECTION GUIDE

A large range of HI-TOOL NGK grips have the patented one handed trigger grip and all contain safety latches. Every grip is proof tested before shipment to ensure quality, etched with serial number and date of manufacture.

GRIP SELECTION

1. Determine the type of wire or conductor the Grip is to be used on, for example: bare Cu; Al; ACSR , Guy Wire, Covered Conductor, ABC, Steel Rod or Barbed wire.
2. Check the actual (OD) Outside Diameter of wire or conductor the Grip is to be used on.
3. What is the maximum working load limit (WLL) required.

Always follow manufacturer's safety instructions, especially with regards to regular inspection and maintenance.

Grip jaws must be cleaned regularly with a wire brush to avoid slippage and contamination build up.

Contact your nearest SF branch for more detailed information.

Model No.	Specifications																		Safety			
	WLL (kN)	Min (mm) Ø	Max (mm) Ø	Jaw Length (mm)	Weight (kg)	Bare Cu Cable	ACSR	Aluminium	ABC	Covered Cable	Trolley Wire	Guy Wire	Wire Rope	Steel Rod	Barbed Wire	Live Line	Safety Latch	Trigger Grip	Spring Latch	Notched		
SD-S-GRIP	10	3.0	13.0	50	0.6	✓				✓		✓					✓	✓				
NEW-SD-GRIP	10	2.6	15.0	50*	0.6	✓				✓		✓		✓	✓		✓	✓				
10KN-GRIP	10	5.0	22.0	70	1.1	✓				✓	✓	✓		✓			✓	✓				
20KN-GRIP	20	5.0	22.0	90	1.5	✓				✓	✓	✓		✓			✓	✓				
20KN-W-GRIP	20	5.0	22.0	90	1.5	✓				✓	✓	✓	✓	✓			✓	✓				
30KN-GRIP	30	5.0	22.0	90	1.7	✓				✓	✓	✓	✓	✓			✓	✓				
MIGHTY-20-GRIP	20	5.0	28.0	120	1.9	✓				✓		✓		✓			✓	✓				
LARGE-20-GRIP	20	16.0	35.0	120	2.1	✓				✓				✓			✓	✓				
LARGE-30-GRIP	30	18.0	35.0	120	2.4	✓				✓				✓			✓	✓				
40KN-GRIP	40	8.0	28.0	140	3.5	✓				✓	✓	✓	✓	✓			✓	TWIST				
AL-10KN-GRIP	10	5.0	22.0	70	1.0	✓	✓	✓									✓	✓				
AL-20KN-GRIP	20	5.0	22.0	90	1.5	✓	✓	✓									✓	✓				
AL-30KN-GRIP	30	5.0	22.0	90	1.7	✓	✓	✓									✓	✓				
AL-MIGHTY-20-GRIP	20	5.0	28.0	120	1.9	✓	✓	✓									✓	✓				
AL-LARGE-20-GRIP	20	16.0	35.0	120	2.1	✓	✓	✓									✓	✓				
AL-LARGE-30-GRIP	30	18.0	35.0	120	2.4	✓	✓	✓									✓	✓				
AL-50KN-GRIP	50	18.0	36.0	180	4.7	✓	✓	✓									✓	TWIST				
AL-60KN-GRIP	60	28.0	46.0	220	7.0	✓	✓	✓									✓	TWIST				
H-20KN-GRIP	20	5.0	22.0	90	1.5	✓	✓	✓								✓	✓	✓	✓	✓		
H-30KN-GRIP	30	5.0	22.0	90	1.7	✓	✓	✓								✓	✓	✓	✓	✓		
H-MIGHTY-20-GRIP	20	5.0	28.0	120	1.9	✓	✓	✓								✓	✓	✓	✓	✓		
H-LARGE-20-GRIP	20	16.0	35.0	120	2.1	✓	✓	✓								✓	✓	✓	✓	✓		
H-LARGE-30-GRIP	30	18.0	35.0	120	2.4	✓	✓	✓								✓	✓	✓	✓	✓		
ABC-S-GRIP	3.5	4x16 2x16	4x35 2x50	80	0.6				✓								✓	✓				
ABC-M-GRIP	10	4x25	4x95	160	2.4				✓								✓	✓				
ABC-L-GRIP	18	4x95	4x150	180	2.6				✓								✓	✓				

* Curved serrated jaw

HI-TOOL TRIGGER GRIP-PATENT PENDING

HI-TOOL NGK WIRE GRIPS (10-20KN) (MADE IN JAPAN)

HI-TOOL CO., LTD

SPECIFICATION

**JUST
DEVELOPED**



SD-S-GRIP

For Bare Copper Cable Covered & Guy Wire
(Special flat jaw, compact & lightweight)

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
10	3	13	50	25x30	0.6



NEW-SD-GRIP

For CU Cable, Guy Wire, Steel Rod, Barbed Wire

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
10	2.6	15	50	25x30	0.6



10KN-GRIP

For Bare Copper Cable, Covered Cable, Guy Wire

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
10	5	22	70	25x30	1.1



AL-10KN-GRIP

For Bare ACSR, AL & COPPER Cable

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
10	5	22	70	25x30	1.1



20KN-GRIP

For Bare Copper Cable, Covered Cable, Guy Wire

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	5	22	90	32x42	1.5



20KN-W-GRIP

For Bare Copper Cable, Guy Wire, Trolley Wire, Wire Rope

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	5	22	90	32x42	1.5



FEATURES

- Patented one handed trigger grip operation.
- All models are fitted with swing down safety latch as standard.
- Conveniently sized and special shaped pulling eyes to suit all brands of strap hoists.
- All gripping jaws are produced with new technology to increase jaw life.
- Grips are designed to be used over a wider range of cable diameters



LOCKING GRIP

Optional Locking Type Grip Available on the below models (Add suffix "-LK" to model no, example 20KN-GRIP-LK)

- MIGHTY20-GRIP
- 20KN-GRIP
- LARGE-20-GRIP
- 30KN-GRIP
- 40KN-GRIP

WIRE GRIPS

HI-TOOL NGK WIRE GRIPS (20-KN) (MADE IN JAPAN)

HI-TOOL CO., LTD

SPECIFICATION



AL-20KN-GRIP

For Bare ACSR, AL & COPPER Cable

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	5	22	90	32x42	1.5



H-20KN-GRIP

For Bare ACSR, AL & COPPER Cable, Guy Wire, includes Spring Latch & Notched Arm.

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	5	22	90	32x42	1.5



MIGHTY-20-GRIP

For Covered Cable, Bare Copper Cable, Guy Wire

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	5	28	120	32x42	1.9



AL-MIGHTY-20-GRIP

For Bare ACSR, AL & COPPER Cable

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	5	28	120	32x42	1.9



H-MIGHTY-20-GRIP

For Bare ACSR, AL & COPPER Cable, Guy Wire, includes Spring Latch & Notched Arm.

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	5	28	120	32x42	1.9



FEATURES

- Patented one handed trigger grip operation.
- All models are fitted with swing down safety latch as standard.
- Conveniently sized and special shaped pulling eyes to suit all brands of strap hoists.
- All gripping jaws are produced with new technology to increase jaw life.
- Grips are designed to be used over a wider range of cable diameters



LOCKING GRIP

Optional Locking Type Grip Available on the below models (Add suffix "-LK" to model no, example 20KN-GRIP-LK)

- MIGHTY20-GRIP
- 20KN-GRIP
- LARGE-20-GRIP
- 30KN-GRIP
- 40KN-GRIP



LOCK OPEN NOTCH

This feature allows the Grip to be held in the open position for easy insertion of cable, available on the below models (Add suffix "-NS" to the model no. example 20KN-GRIP-NS):

- AL 20KN GRIP
- AL 30KN GRIP
- MIGHTY20-GRIP
- AL-MIGHTY-20-GRIP,
- LARGE20-GRIP
- LARGE30-GRIP
- AL-LARGE20-GRIP
- AL-LARGE30-GRIP,
- ABC-M-GRIP
- ABC-L-GRIP

HI-TOOL TRIGGER GRIP-PATENT PENDING

HI-TOOL NGK WIRE GRIPS (20-30KN) (MADE IN JAPAN)

HI-TOOL CO., LTD

SPECIFICATION



LARGE-20-GRIP

For Covered Cable, Bare Copper Cable

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	16	35	120	32x42	2.1



AL-LARGE-20-GRIP

For Bare ACSR, AL & COPPER Cable

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	16	35	120	32x42	2.1



H-LARGE-20-GRIP

For Bare ACSR, AL & COPPER Cable, Guy Wire

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
20	16	35	120	32x42	2.1



30KN-GRIP

For Bare Copper Cable, Guy Wire, Trolley Wire, Wire Rope

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
30	5	22	90	32x42	1.7



AL-30KN-GRIP

For Bare ACSR, AL & COPPER Cable

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
30	5	22	90	32x42	1.7



NEW

LOCK OPEN NOTCH

This feature allows the Grip to be held in the open position for easy insertion of cable, available on the below models (Add suffix "-NS" to the model no. example 20KN-GRIP-NS):

- AL 20KN GRIP
- AL 30KN GRIP
- MIGHTY20-GRIP
- AL-MIGHTY-20-GRIP,
- LARGE20-GRIP
- LARGE30-GRIP
- AL-LARGE20-GRIP
- AL-LARGE30-GRIP,
- ABC-M-GRIP
- ABC-L-GRIP



FEATURES

- Patented one handed trigger grip operation.
- All models are fitted with swing down safety latch as standard.
- Conveniently sized and special shaped pulling eyes to suit all brands of strap hoists.
- All gripping jaws are produced with new technology to increase jaw life.
- Grips are designed to be used over a wider range of cable diameters



NEW

LOCKING GRIP

Optional Locking Type Grip Available on the below models (Add suffix "-LK" to model no, example 20KN-GRIP-LK)

- MIGHTY20-GRIP
- 20KN-GRIP
- LARGE-20-GRIP
- 30KN-GRIP
- 40KN-GRIP

WIRE GRIPS

HI-TOOL NGK WIRE GRIPS (30-KN) (MADE IN JAPAN)

HI-TOOL CO., LTD

SPECIFICATION



H-30KN-GRIP

For Bare ACSR, AL & COPPER Cable, Guy Wire, includes Spring Latch & Notched Arm.

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
30	5	22	90	32x42	1.7



FEATURES

- Patented one handed trigger grip operation.
- All models are fitted with swing down safety latch as standard.
- Conveniently sized and special shaped pulling eyes to suit all brands of strap hoists.
- All gripping jaws are produced with new technology to increase jaw life.
- Grips are designed to be used over a wider range of cable diameters



LARGE-30-GRIP

For Covered Cable, Bare Copper Cable

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
30	18	35	120	32x42	2.4



AL-LARGE-30-GRIP

For Bare ACSR, AL & COPPER Cable

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
30	18	35	120	32x42	2.4



H-LARGE-30-GRIP

For Bare ACSR, AL & COPPER Cable, Guy Wire, includes Spring Latch & Notched Arm.

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
30	18	35	120	32x42	2.4



LOCKING GRIP

Optional Locking Type Grip Available on the below models (Add suffix "-LK" to model no, example 20KN-GRIP-LK)

- MIGHTY20-GRIP
- 20KN-GRIP
- LARGE-20-GRIP
- 30KN-GRIP
- 40KN-GRIP



NEW

LOCK OPEN NOTCH

This feature allows the Grip to be held in the open position for easy insertion of cable, available on the below models (Add suffix "-NS" to the model no. example 20KN-GRIP-NS):

- AL 20KN GRIP
- AL 30KN GRIP
- MIGHTY20-GRIP
- AL-MIGHTY-20-GRIP,
- LARGE20-GRIP
- LARGE30-GRIP
- AL-LARGE20-GRIP
- AL-LARGE30-GRIP,
- ABC-M-GRIP
- ABC-L-GRIP

HI-TOOL TRIGGER GRIP-PATENT PENDING

HI-TOOL NGK WIRE GRIPS (40-60KN) (MADE IN JAPAN)

HI-TOOL CO., LTD

TWIST GRIP FEATURE



40KN-GRIP

For Bare Copper Cable, Guy Wire, Trolley Wire, Wire Rope

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
40	8	28	140	43x51	3.5



AL-50KN-GRIP

For Bare ACSR, AL & BARE COPPER Cable

WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
50	18	36	180	43x51	4.7



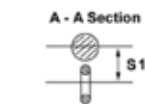
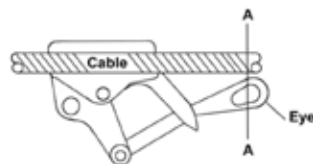
AL-60KN-GRIP

For Bare ACSR, AL & BARE COPPER Cable

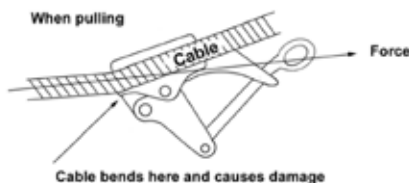
WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
60	28	46	220	60x51	7.0

TWIST GRIP FEATURE

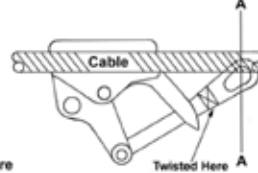
1) Normal grip on the market



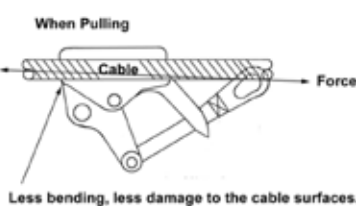
S = Distance between cable centre & eye centre



2) Hitool-NGK patented Twist Grip



S2 is much closer to cable centre than S1



FEATURES

- Patented one handed trigger grip operation.
- All models are fitted with swing down safety latch as standard.
- Conveniently sized and special shaped pulling eyes to suit all brands of strap hoists.
- All gripping jaws are produced with new technology to increase jaw life.
- Grips are designed to be used over a wider range of cable diameters



LOCKING GRIP

Optional Locking Type Grip Available on the below models (Add suffix "-LK" to model no, example 20KN-GRIP-LK)

- MIGHTY20-GRIP
- 20KN-GRIP
- LARGE-20-GRIP
- 30KN-GRIP
- 40KN-GRIP

WIRE GRIPS – ABC

HI-TOOL NGK WIRE GRIPS (ABC) (MADE IN JAPAN)

HI-TOOL CO., LTD

Picture	Model No	WLL (kN)	Min. Cable (mm)	Max. Cable (mm)	Jaw Length (mm)	Eye Size (mm)	Wt (kg)
	ABC-S-GRIP	3.5	4×16	4×35	80	24×30	0.6
			2×16	2×50			
	ABC-M-GRIP	10.0	4×25	4×95	160	32×42	2.4
	ABC-L-GRIP	18.0	4×95	4×150	180	32×42	2.6

For use with SERVICE-TGL, bottom of page F11



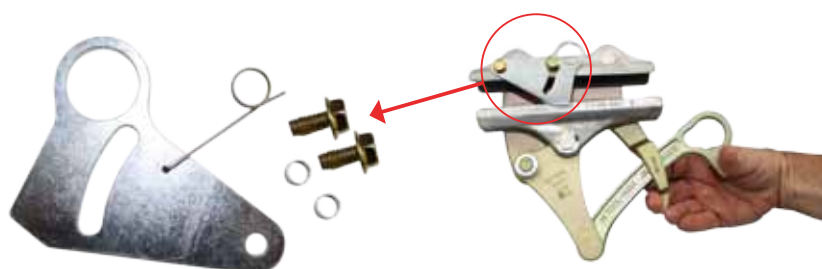
NEW

LOCK OPEN NOTCH

This feature allows the Grip to be held in the open position for easy insertion of cable, available on the below models (Add suffix “-NS” to the model no. example 20KN-GRIP-NS):

- AL 20KN GRIP
- AL 30KN GRIP
- MIGHTY20-GRIP
- AL-MIGHTY-20-GRIP,
- LARGE20-GRIP
- LARGE30-GRIP
- AL-LARGE20-GRIP
- AL-LARGE30-GRIP,
- ABC-M-GRIP
- ABC-L-GRIP

REPLACEMENT GATE KITS



Model No	SL-S	SL-M
Suits Grips Types	20kN & 30kN	MIGHTY-20, LARGE-20, LARGE-30 & All ABC Grips
Contains	Gate, Spring, 2 x Hex Screws & 2 x Spacers	

***NOTE** - Only qualified personal should replace worn or damaged grip parts

HI-TOOL TRIGGER GRIP-PATENT PENDING

WIRE GRIPS – INTERCHANGEABLE LINER TYPE

RIGANTI GRIPS WITH INTERCHANGABLE LINERS (MADE IN SWITZERLAND)

RIGANTI grips are suitable for aluminium, A.C.S.R., steel earthwire, antitwisting rope, copper and OPGW conductors. Made of high tensile alloy steel, hot forged, heat-treated, precision machined and zinc-plated with a complete range of interchangeable liners. This means working at lower costs on conductors of different materials and diameters only by changing the liners. The liners are available in aluminium for aluminium or aluminium/steel conductors and bronze for copper conductors, steel antitwisting rope and steel earthwire. As for OPGW conductor the lower liner is made of Adiprene, whereas the upper one is made of aluminium. All Riganti self-gripping clamps comply with European safety standard CE



<p>IR3103</p>	<p>IR3104</p>
<p>IR3105</p>	<p>IR3106</p>
<p>IR3107</p>	<p>IR3108</p>
<p>IR3109</p>	<p>IR3110</p>
<p>IR3111</p>	<p>IR3112</p>

WIRE GRIPS – INTERCHANGEABLE LINER TYPE

RIGANTI INTERCHANGEABLE LINERS

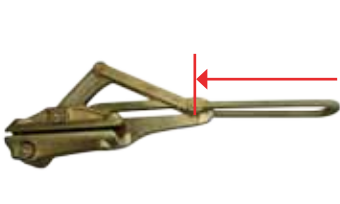
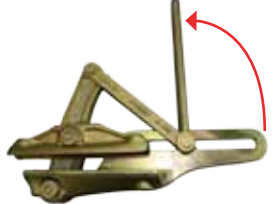


Model No	WLL (kN)	Inter-changeable Liners	Suitable For (Material Type)						Wt (kg)
			Al, ACSR & Cu		Suspension Conductors Al		Steel, Earthwire (mm)		
			Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	
IR 3109	19.6	No	2.5	15.0	2.5	15.0	2.5	15.0	1.5
IR 3110	20.3	No	-	-	-	-	-	-	2.1
IR3111	21.2	Yes	7.0	16.0	7.0	16.0	7.0	13.0	2.5
IR 3108	39.2	Yes	-	-	7.0	38.0	-	-	5.5
IR 3106	50.0	No	7.5	18.0	7.5	18.0	7.5	18.0	7.0
IR 3107	49.0	Yes	6.0	23.0	6.0	23.0	6.0	16.0	7.0
IR3112	49.0	Yes*	-	-	-	-	-	-	7.0
IR 3105	88.0	Yes	12.0	31.5	12.0	31.5	8.0	24.0	13.5
IR 3104	117.0	Yes	23.0	41.0	23.0	41.0	10.0	34.0	17.0
IR 3104SPEC	117.0	Yes*	10.0	45.0	10.0	45.0	10.0	34.0	17.0
IR3103	165	No*	41	57	41	57	41	57	25

Model No	WLL (kN)	Inter-changeable Liners	Suitable For (Material Type)						Wt (kg)
			Anti-twist Braided Rope (mm)		OPGW		Insulated Wire		
			Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	
IR 3109	19.6	No	8.0	10.0	-	-	-	-	1.5
IR 3110	20.3	No	-	-	-	-	6.0	13.0	2.1
IR3111	21.2	Yes	7.0	13.0	-	-	-	-	2.5
IR 3108	39.2	Yes	-	-	-	-	-	-	5.5
IR 3106	50.0	No	8.0	13.0	-	-	-	-	7.0
IR 3107	49.0	Yes	6.0	16.0	-	-	-	-	7.0
IR3112	49.0	Yes*	-	-	6.0	23.0	-	-	7.0
IR 3105	88.0	Yes	8.0	24.0	-	-	-	-	13.5
IR 3104	117.0	Yes	8.0	26.0	-	-	-	-	17.0
IR 3104SPEC	117.0	Yes*	8.0	26.0	-	-	-	-	17.0
IR3103	165	No*	41	57	-	-	-	-	25

*Exact size required for manufacture

Simply purchase additional liners and change as required.

HOW TO CHANGE LINERS










Push grip handle towards jaws which opens them.

Lift handle to lock open when handle close to jaws.

Obtain liner set with screws.

Check liners are correct size.

Place liners in jaw, stubs on liners will fit into holes in jaw frames.

Tighten both screws on top and bottom jaw.

WIRE GRIPS - INTERCHANGEABLE LINERS

RIGANTI INTERCHANGEABLE LINERS

Model No	Al/Cu Liner Type	Min (mm)	Max (mm)	Al Model No	Cu Model No
IR3111	Range	7.0	8.5	G1A070F	G1B070F
		8.5	10.0	G1A085F	G1B085F
		10.0	11.5	G1A100F	G1B100F
		11.5	13.0	G1A115F	G1B115F
		13.0	14.5	G1A130F	G1B130F
		14.5	16.0	G1A145F	G1B145F
IR3108	Range	7.0	11.0	G8A070F	-
		9.0	12.0	G8A090F	-
		12.0	16.0	G8A120F	-
		15.0	23.0	G8A150F	-
		22.0	36.0	G8A220F	-
		30.0	38.0	G8A300F	-
IR3107	Range	6.0	6.0	G7A060F	G7B060F
		6.5	8.0	G7A065F	G7B065F
		8.0	9.5	G7A080F	G7B080F
		9.5	11.0	G7A095F	G7B095F
		11.0	12.5	G7A110F	G7B110F
		12.5	14.0	G7A125F	G7B125F
		14.0	15.5	G7A140F	G7B140F
		15.5	17.0	G7A155F	G7B155F
		17.0	18.5	G7A170F	G7B170F
		18.5	20.0	G7A185F	G7B185F
		20.0	21.5	G7A200F	G7B200F
		21.5	23.0	G7A215F	G7B215F
IR3105	Range	8.0	9.0	G5A080F	G5B080F
		9.0	10.5	G5A090F	G5B090F
		10.5	12.0	G5A105F	G5B105F
		12.0	13.5	G5A120F	G5B120F
		13.5	15.0	G5A135F	G5B135F
		15.0	16.5	G5A150F	G5B150F
		16.5	18.0	G5A165F	G5B165F
		18.0	19.5	G5A180F	G5B180F
		19.5	21.0	G5A195F	G5B195F
		21.0	22.5	G5A210F	G5B210F
		22.5	24.0	G5A225F	G5B225F
		24.0	25.5	G5A240F	G5B240F
		25.5	27.0	G5A255F	G5B255F
		27.0	28.5	G5A270F	G5B270F
		28.5	30.0	G5A285F	G5B285F
		30.0	31.5	G5A300F	G5B300F
IR3104	Range	31.5	32.0	G5A315F	G5B315F
		10.5	12.0	G4A105	G4B105
		12.0	13.0	G4A120	G4B120
		13.5	15.0	G4A135	G4B135
		15.0	16.5	G4A150	G4B150
		16.5	18.0	G4A165	G4B165
		18.0	19.5	G4A180	G4B180
		19.5	21.0	G4A195	G4B195
		21.0	22.5	G4A210	G4B210
		22.5	24.0	G4A225F	G4B225F
		24.0	25.5	G4A240F	G4B240F
		25.5	27.0	G4A255F	G4B255F
		27.0	28.5	G4A270F	G4B270F
		28.5	30.0	G4A285F	G4B285F
		30.0	31.5	G4A300F	G4B300F
		31.5	33.0	G4A315F	G4B315F
		33.0	34.5	G4A330F	G4B330F
		34.5	36.0	G4A345F	G4B345F
		36.0	37.5	G4A360F	G4B360F
		37.5	39.0	G4A375F	G4B375F
		39.0	40.5	G4A390F	G4B390F
		41.0	41.0	G4A410F	G4B410F



Model No	Steel Square Model No (**.**) Specify Exact Size in mm)	OPGW Range (mm)	Min	Max	OPGW Model No (**.**) Specify Exact Size in mm)
IR3112	-	YES	6.0	23.0	IR3112/ **.*)

Example: Model No. IR3112/17.7 suitable for 17.7mm OD OPGW



WEB STRAP PULLERS & SERVICE LINE TENSIONER

HI-TOOL NGK WEB STRAP PULLERS (MADE IN JAPAN)

Designed Strong, Lightweight & Compact



NP-1500

NEX-1500

HI-TOOL CO., LTD

For overhead stringing and tensioning applications, not designed for lifting applications.

Handle neck will bend when unit is overloaded

Insulated Fibreglass handle for live line use with insulated stick

NEX-1500-H



SPECIFICATIONS

Model	Capacity (kN)	Strap Size (mm)	Handle Length (mm)	Pull Length (m)	Wt (kg)
NP-1500	15	32 X 2	460	1.5	3.6
NEX-1500	15 (DOUBLE)	32 X 2	460	1.5 (DOUBLE)	3.9
	7.5 (SINGLE)			3.0 (SINGLE)	
NEX-1500-H	15 (DOUBLE)	32 X 2	800	1.5 (DOUBLE)	4.3
	7.5 (SINGLE)			3.0 (SINGLE)	

JUST DEVELOPED!

Puller models with special safety latch and increased spring strength. Designed specifically for securing wire grips eyes.



HOOK SAFETY LATCH
PATENT PENDING

SERVICE LINE TENSIONER



Used to tension small ABC (Aerial Bundled Cable). Made with high quality stainless steel componentry and durable yachting rope, comes with detailed tag. Supplied in kit form with grip and pole strap, refer table below.

Model No	Description	WLL (kg)	Rope Length Total (m)	Weight (m)	Grip Details			
					Eye Size (mm)	Min Cable	Max Cable	WLL (kN)
SERVICE-TGL	Service Line Tensioner Only	200	3	1.6	N/A	N/A	N/A	N/A
SERVICE/ABC	Service Line Tensioner & Grip (ABC-S-GRIP)	200	3	2.2	26x30	2x16 4x16	2x50 4x35	3.5
SERVICE/ABC/PS	Service Line Tensioner, ABC-S-GRIP & Pole Strap (PS0.9)	200	3	3.0	26x30	2x16 4x16	2x50 4x35	3.5

SINGLE EYE KEVLAR CONDUCTOR GRIP (MADE IN AUSTRALIA)

C8 SERIES

Construction:

- No metal
- Kevlar Strands
- Soft Eye with Plastic Tube
- Dual Three Strand Weave



**High strength
Kevlar!
No injuries from
metal strands!**

SPECIFICATION

Model No	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
C8010	10-14	350	12	4
C8014	14-19	400	12	4
C8019	19-28	500	18	6
C8028	28-40	600	30	10
C8040	40-55	800	36	12
C8055	55-75	900	53	17
C8075	75-95	1000	70	23
C8095	95-120	1200	105	35

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

CABLE SOCKS - STANDARD TUBULAR CABLE GRIPS (MADE IN AUSTRALIA)

C1 SERIES

Construction:

- Two Ply
- Galvanised Strand
- Alloy Ferrule
- Soft Eye



Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
C1010	10-14	350	5	1.6
C1014	14-19	400	9	3.0
C1019	19-28	500	15	5.0
C1028	28-40	600	24	8.0
C1040	40-55	800	35	11.6
C1055	55-75	900	62	20.6
C1075	75-95	1000	98	32.6
C1095	95-120	1200	133	44.3
C1120	120-150	1400	187	62.3
C1150	150-190	1600	283	94.3

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

C2 SERIES

Construction:

- Two Ply
- Galvanised Strand
- Alloy Ferrule
- Galvanised Thimble Eye



Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
C2010	10-14	350	5	1.6
C2014	14-19	400	9	3.0
C2019	19-28	500	15	5.0
C2028	28-40	600	24	8.0
C2040	40-55	800	35	11.6
C2055	55-75	900	62	20.6
C2075	75-95	1000	98	32.6
C2095	95-120	1200	133	44.3
C2120	120-150	1400	187	62.3
C2150	150-190	1600	283	94.3

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

SOCK CABLE GRIPS

STANDARD TUBULAR CABLE SOCKS (MADE IN AUSTRALIA)

C3 SERIES

Construction:

- Two Ply
- Galvanised Strand
- Copper Ferrule
- Soft Eye



Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
C3010	10-14	350	5	1.6
C3014	14-19	400	9	3.0
C3019	19-28	500	15	5.0
C3028	28-40	600	24	8.0
C3040	40-55	800	35	11.6
C3055	55-75	900	62	20.6
C3075	75-95	1000	98	32.6
C3095	95-120	1200	133	44.3
C3120	120-150	1400	187	62.3
C3150	150-190	1600	283	94.3

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

C7 SERIES

Construction:

- Two Ply
- 316 Stainless Steel Strand
- 316 Stainless Steel Ferrule
- 316 Stainless Steel Thimble Eye



Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
C7010	10-14	350	5	1.6
C7014	14-19	400	9	3.0
C7019	19-28	500	15	5.0
C7028	28-40	600	24	8.0
C7040	40-55	800	35	11.6
C7055	55-75	900	62	20.6
C7075	75-95	1000	98	32.6
C7095	95-120	1200	133	44.3
C7120	120-150	1400	187	62.3
C7150	160-190	1600	283	94.3

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

HEAVY DUTY TUBULAR HEAVY DUTY GRIP (MADE IN AUSTRALIA)

CHD SERIES

Construction:

- Double or Triple Ply
- Galvanised Strand
- Alloy Ferrule
- Soft Eye



Available in 316 stainless steel or with thimble eye on request

Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
CHD1004	4-7	300	5	1.6
CHD1006	6-11	350	8	2.6
CHD1010	10-14	350	15	5.0
CHD1014	14-19	400	20	6.6
CHD1019	19-28	500	37	12.3
CHD1028	28-40	600	54	18.0
CHD1040	40-55	800	62	20.6
CHD1055	55-75	900	80	26.6
CHD1075	75-95	1000	180	60.0

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

HEAVY DUTY GRADED WEAVE TUBULAR HEAVY DUTY GRADED WEAVE

HDGW SERIES

Construction:

- Multi Ply
- Galvanised Strand
- Alloy Ferrule
- Soft Eye
- Copper Sleaving
- HDGWCS designed for passage through overhead stringing rollers



HDGW Model No.	HDGWCS Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
HDGW08	HDGW08CS	8-11	700	28	9.3
HDGW10	HDGW10CS	10-15	750	37	12.3
HDGW15	HDGW15CS	15-21	810	57	19.0
HDGW20	HDGW20CS	20-27	1040	73	24.3
HDGW27	HDGW27CS	27-35	1160	101	33.6
HDGW32	HDGW32CS	32-37	1160	101	33.6

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

SOCK CABLE GRIPS

DOUBLE EYE STANDARD TUBULAR CABLE GRIPS (MADE IN AUSTRALIA)

D1 SERIES

Construction:

- Two Ply
- Galvanised Strand
- Alloy Ferrule
- Soft Eyes



Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
D1010	10-14	350	5	1.6
D1014	14-19	400	9	3.0
D1019	19-28	500	15	5.0
D1028	28-40	600	24	8.0
D1040	40-55	800	35	11.6
D1055	55-75	900	62	20.6
D1075	75-95	1000	98	32.6
D1095	95-120	1200	133	44.3
D1120	120-150	1400	187	62.3
D1150	150-190	1600	283	94.3

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

D7 SERIES

Construction:

- Two Ply
- 316 Stainless Steel Strand
- 316 Stainless Steel Ferrule
- 316 Stainless Steel Thimble Eyes



Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
D7010	10-14	350	5	1.6
D7014	14-19	400	9	3.0
D7019	19-28	500	15	5.0
D7028	28-40	600	24	8.0
D7040	40-55	800	35	11.6
D7055	55-75	900	62	20.6

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

NON CONDUCTIVE TUBULAR NON-CONDUCTIVE GRIP (MADE IN AUSTRALIA)

LV SERIES

Construction:

- Double or Triple Ply
- Monofilament Nylon Strand
- Alloy Ferrule
- Single Eye



Model No.	To fit Cable (mm ²)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
LV225	2 x 25mm ²	600	15	5.0
LV235	2 x 35mm ²	600	15	5.0
LV250	2 x 50mm ²	600	15	5.0
LV295	2 x 95mm ²	600	15	5.0
LV335	3 x 35mm ²	600	15	5.0
LV395	3 x 95mm ²	600	25	8.3
LV425	4 x 25mm ²	600	15	5.0
LV435	4 x 35mm ²	600	15	5.0
LV450	4 x 50mm ²	600	15	5.0
LV470	4 x 70mm ²	800	17	5.6
LV495	4 x 95mm ²	800	25	8.3
LV4150	4 x 150mm ²	800	25	8.3

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

HV SERIES

Construction:

- Double or Triple Ply
- Monofilament Nylon Strand
- Alloy Ferrule
- Double Eye



Model No.	To fit Cable (mm ²)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
HV335	3 x 35mm ²	800	25	8.3
HV350	3 x 50mm ²	800	25	8.3
HV370	3 x 70mm ²	800	25	8.3
HV395	3 x 95mm ²	900	31	10.3
HV3120	3 x 120mm ²	900	31	10.3
HV150	3 x 150mm ²	900	31	10.3
HV3185	3 x 85mm ²	900	31	10.3

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.

SOCK CABLE GRIPS

TRIPLEX CONDUCTOR GRIP (MADE IN AUSTRALIA)

- Construction:**
- Two Ply
 - Galvanised Strand
 - Alloy Ferrule
 - Soft Eye
 - **Three legs**



SPECIFICATION

Model No.	To fit Cable Diameter mm	Grip Length mm	Ultimate Tensile Strength (UTS kN)	WLL (kN)
TG2840-1000	3 x 28-40	1000	24kN	8.0
TG4055-1000	3 x 40-55	1000	35kN	11.6

OTHER SOCKS AVAILABLE

NOTE: Other variations and sizes available.

LACE UP SERIES



OPEN BOTH ENDS



HOSE RESTRAINTS



SOCK CABLE GRIP FITTING INSTRUCTION

GENERAL FITTING INSTRUCTIONS AND CONDUCTOR PREPARATION

Note, you should always follow manufacturer's instructions or procedures.

When you first come to fit your Cable Grip, you will probably find that the conductor has been cut using some shearing Mechanism, for example a parrot beak cutter. This method of cutting leaves a very sharp edge on the end of the conductor, as **Figure 1** shows.

In order to obtain maximum strength from your cable grip, it is extremely important to remove the sharp edge and it is very easy to do, only taking a minute or two. **Figure 2**.

A rule of thumb for the amount of chamfer on the conductor, is approximately 760mm chamfer for a distance of approximately half the diameter of the conductor. This applies whether the cable is a solid copper rod, or a stranded aluminium conductor.

When you unpack your cable grip, you will notice that the end has probably closed over, similar to that in the photograph illustration. **Figure 3**.

This does not mean that the grip is in any way damaged. You will need to open up the mouth of the cable grip before trying to fit it on to the end of the conductor. To open up the cable grip, all you have to do is, by hand, manipulate the wires at the end until you get a nice opening as per the photograph. **Figure 4**.

If you are going to fit the cable grip to a stranded conductor or even a wire rope, it may be necessary to use some PVC electrical tape. Tape down the end of the conductor for about 25mm. just to prevent the strands from coming out of their formation and snagging or catching on the inside of the cable grip as it is being fitted. It is now just a matter of putting the mouth end of the cable grip against the end of the conductor and slowly working it on.

In the picture, **Figure 5**, the conductor has been pushed into the cable grip as far as it can go - right up to the very shoulder of the cable grip. Once you are sure it is in as far as it can go, ensure that all the slack or the loose spots along the grip have been eased out towards the mouth end.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

SOCK CABLE GRIP

FITTING INSTRUCTION-CONT.

GENERAL FITTING INSTRUCTIONS AND CONDUCTOR PREPARATION - CONTINUED

During hauling operations it may be necessary to reverse the direction of the pull. It is vitally important that the cable grip is anchored at the mouth end to guard against accidental release during a reverse haul operation. This is a very simple procedure to do and it requires a nylon cord or wire to be placed around the end of the cable grip for approximately 25 or 30mm. The photograph shows a nylon cord being used.

Figure 6.



The final process in the installation, is to get some PVC electrical tape or some heat shrink and apply over the tail of the grip and the sealing. **Figure 7** This ensures that all the uneven surfaces are covered and makes a smooth transition from conductor to grip.



When using graded weave grips it is important to remember that there are wires protruding from the grip at intervals along the body of the grip. These wires can also foul in a reverse hauling situation. It is important that you tape protrusions prior to the commencement of the haul.

INSPECTION OF NON-CONDUCTIVE CABLE SOCKS

The following is an outline on the steps taken to carry out a visual inspection of a Nylon Cable Grip.

1. Select a work area which is clean, well lit and has somewhere to lay the grip out flat.
2. Lay the grip out.
3. Look for dirt / contamination on the grip. If dirty (e.g soil or mud) wash off with plain water and dry.
If contaminated by something other than dirt it is advisable to remove the grip from service and replace. Some types of contamination (e.g oil) can affect the nylon. The extent to which the nylon has been affected can never be determined by sight.
4. Start at the eye, look for broken or abraded strands of nylon. If none found move to step 5. If one or more broken or badly abraded strands are found then replace grip.
5. Starting at the eye look for kinked or pulled strands. This would indicate the grip may have been fouled on a roller and would indicate possible overloading at these points. If none found move to step six, should the grip show kinks or pulled strands - then replace the grip.
6. Check the colour, the nylon should be a clear or coloured transparent colour, if it has changed to a milky opaque - then replace the grip.
7. Examine the grip for "elasticity". Manipulate the grip, it must feel "springy" soft. It is advisable, where possible, to have a new grip on hand to use as a "benchmark" for examination. If the grip feels hard then replace. Once this procedure is complete you can be confident the grip is suitable for continued use, or should be discarded.

TRANSMISSION STRINGING CABLE GRIPS (MADE IN ITALY)



C 06 SERIES

Single eye cable grips



Model No	Conductor Diameter (mm)	Identifying Colour	Useful Length L1 (mm)	Total Length L (mm)	WLL (kN)	UTS (kN)	Wt (kg)
C 06.S.1	8-17	YELLOW	1100	1700	11	35	0.6
C 06.S.2	17-29	RED	1350	1700	28	85	1.2
C 06.S.3	29-38	GREEN	1470	1900	45	135	1.8
C 06.S.4	38-50	BLACK	1810	2260	61	185	2.8

C 07 SERIES

Double end cable socks for temporary connection of conductors



Model No	Conductor Diameter (mm)	Identifying Colour	Useful Length L1 (mm)	Total Length L (mm)	WLL (kN)	UTS (kN)	Wt (kg)
C 07.S.1	8-17	YELLOW	1100	2680	11	35	1.1
C 07.S.2	17-29	RED	1350	3250	28	85	2.1
C 07.S.3	29-38	GREEN	1470	3550	45	135	3.3
C 07.S.4	38-50	BLACK	1810	4250	61	185	5.0

LINE SWIVELS



SERIES 00505 OVERHEAD & UNDERGROUND LINE SWIVELS (MADE IN CANADA)



DCD Line Swivels are typically constructed with a needle roller thrust bearing for tensile load and a radial bearing for bending load.

They combine a high safe working load with a compact design.

All sizes incorporate an oil seal and are manufactured from **high strength stainless steel**.

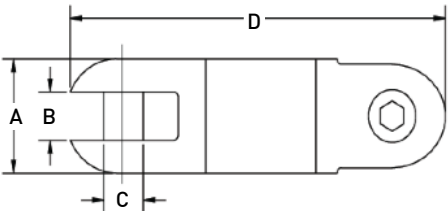
Sizes 00505-020 and larger are supplied with a grease point for lubrication. This is particularly useful in overhead applications where high speed rotation is possible.

All sizes of both types are pull tested to verify the 3:1 safety factor and all swivelling sizes are fully capable of rotation at full working load. Test certificates are available upon request.

SPECIFICATIONS

Model No.	Safe Working Load (kN)	Dimensions (mm)				Weight (kg)
		A	B	C	D	
00505-005	3.3	16	7.1	4.8	64	0.06
00505-008	5.0	20	7.1	4.8	78	0.12
00505-010	10.0	22	9.5	7.9	86	0.15
00505-015	15.6	25	10.3	9.5	98	0.23
00505-020	22.2	32	13.5	10.3	121	0.45
00505-025	31.1	35	14.3	12.7	130	0.63
00505-027	40.0	38	15.1	12.7	143	0.77
00505-030	44.5	41	17.5	15.9	152	0.95
00505-035	66.7	51	19.8	17.5	178	1.7
00505-040	110	60	26.2	22.2	262	3.5
00505-045	222	76	30.2	28.6	349	7.7

NOTE: The Safe Working Load is calculated at 3:1 safety factor

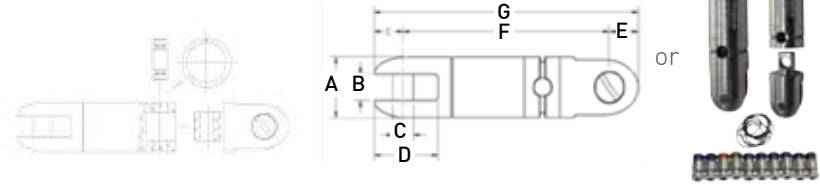


BREAK AWAY SWIVELS & FUSES, & ARTICULATED SWIVELS



BREAK-AWAY SWIVELS AND FUSES (MADE IN CANADA)

The purpose of this product is to protect the utility being installed from overload. Typically, they would be used during the installation of **fibre optic cable** or very small gas ducting where the connector can be pre-set to breakaway at a predetermined load, thus protecting the fibres the duct. The breakaway pins may be changed to allow the same connector or swivel to be used with a variety of different breakaway pins.



MODEL NO	DIMENSIONS (mm)							USE BREAKAWAY PIN TYPE	WT (g)
	A	B	C	D	E	F	G		
00550-005	15.9	7.1	4.7	17.4	6.3	69.8	82.5	A	80
00550-010	22.2	9.5	7.9	24.6	11.1	80.9	103.2	B	190
00550-020	31.8	13.5	10.3	32.5	13.5	114.3	141.3	C	550

BREAKAWAY PINS

Breakaway Model No. *	Breakaway Pin Kits Model No.	Breakaway Fuse Rating (kN)	Type Of Cables To Be Pulled With These Fuses	Pin Type
00550-020	00555-040 (Packet of 5)	18	300mm ² - 500mm, 3 Core + 300mm Triplex (11kV)	C
00550-020	00555-027 (Packet of 5)	12	95mm-300mm ² , 3 Core (11 kV)	C
00550-020	00555-020 (Packet of 5)	9	630mm ² Single Core Cu (11 kV) + LV Unarmoured Cables	C
00550-005	00555-007 (Packet of 10)	3	300mm ² XLPE Single Core or smaller	A

*Other sizes available upon request

BREAKAWAY SWIVEL PINS FOR 00550 SERIES BREAKAWAY SWIVELS

Model No (Kit=Qty 10 Pins)	Break Point ±10% (kg)	Colour Code	Model No (Kit=Qty 10 Pins)	Break Point ±10% (kg)	Colour Code	Model No (Kit=Qty 5 Pins)	Break Point ±10% (kg)	Colour Code
Type A			Type B			Type C		
00555-002	91	WHITE	00535-002	91	WHITE	00555-018	818	GREEN
00555-0034	155	RED	00535-004	182	YELLOW	00555-020	909	BLUE
00555-004	182	YELLOW	00535-006	273	ORANGE	00555-027	1227	BLACK
00555-0045	205	BLUE	00535-008	364	GREY	00555-036	1636	YELLOW
00555-006	273	ORANGE	00535-010	455	RED	00555-040	1818	RED
00555-007	307	BLACK						

SWIVELS

Model No. 250.R

Swivelling joint for ropes. Suitable for either ropes and conductors. Designed to avoid torsion accumulation.

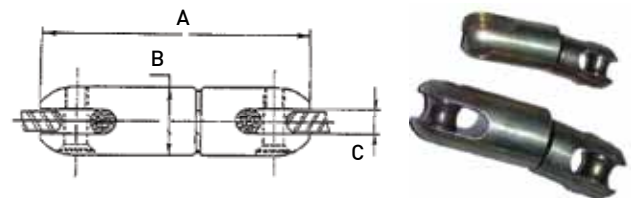
250.R Made of galvanised high tensile steel and protective coating, incorporating an axial bearing for an easy rotation.

Model No. 250.R.B

Articulated version for easier passage over Rollers or Pulleys. The articulated version is available for models.

13, 16, 18 and 24. Note: breaking load 30% lower.

250.R.B Made of galvanised high tensile steel and protective coating, incorporating an axial bearing for an easy rotation.



Standard Model No	Articulated Model No	Dimensions (mm)			Rope (Max Ø mm)	Standard Model No		Articulated Model No		Wt (kg)
		A	B	C		WLL (kN)	UTS (kN)	WLL (kN)	UTS (kN)	
250.R.06		60	18	8.5	6	4	12			0.10
250.R.08		95	25	10	8	8	25			0.36
250.R.12		118	33	15	10/12	26	80			0.60
250.R.13	250.R.B.13	130	40	17	13/14	40	120	28	84	0.90
250.R.16	250.R.B.16	165	45	21	16/18	63	190	44	133	1.50
250.R.18	250.R.B.18	180	50	23	18/20	81	245	57	171	2.30
250.R.24	250.R.B.24	230	60	28	22/24	131	395	92	276	3.10
250.R.28		310	80	37	28/30	260	780			7.00
250.R.32		345	85	42	32/36	283	850			10.50

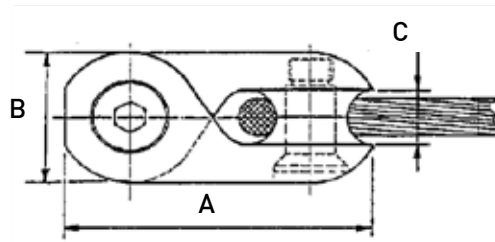
FIXED JOINT CONNECTORS

MODEL NO. GF 90



DETAILS

Fix joint for rope. Designed specifically for joining all types and lengths of pulling and pilot rope. Its shape reduces the stress at the critical steps during passage over the groove wheels of pulling machines.



MODEL NO. GF90

SPECIFICATIONS

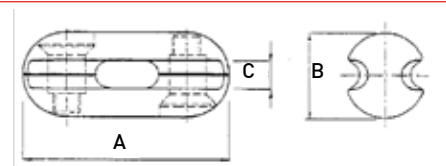
Made of galvanised high tensile steel and protective coating

Model No	Dimensions (mm)			Rope (Max Ø mm) ¹	WLL (kN)	UTS (kN)	Wt (kg)
	A	B	C				
GF.10.90	63	28	11	8-10	20	60	0.17
GF.13.90	78	35	14	12-13	30	90	0.37

MODEL NO. F 82

DETAILS

Fix joint for rope. Designed for joining lengths of all types of pulling rope. Fit for the passage over the groove wheels of pulling machines. Its shape reduces the stress of the eyes during the passage over the wheels: the eyes work on special swivelling pins. Easy to open.



MODEL NO. F82

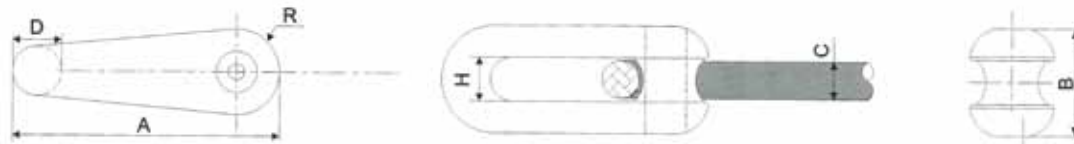
SPECIFICATIONS

Made of galvanised high tensile steel and protective coating

Model No	Dimensions (mm)			Rope (Max Ø mm) ¹	WLL (kN)	UTS (kN) ²	Wt (kg)
	A	B	C				
F 82.10	66	28	12	10	43	130	0.25
F 82.13	86	36	17	16	63	190	0.50
F 82.16	102	45	19	18	86	260	0.80
F 82.18	115	50	21	20	106	320	1.15
F 82.24	140	60	27	24	160	480	1.60
F 82.28	160	73	32	30	293	880	3.45
F 82.32	180	80	35	32	316	950	3.95

¹ Verify the compatibility between the breaking loads of the rope and of the joint

² Based on 3:1 safety factor



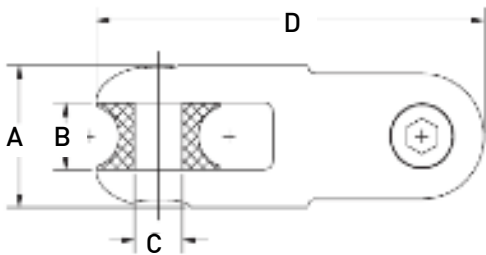
Model No	WLL 3:1 (Tonne)	Breaking Load (Tonne)	A Length (mm)	B Width (mm)	C Opening (mm)	D Length (mm)	H Width (mm)	R Length (mm)	Wt (kg)
T001	2.1	6.4	59	28.2	10	15.0	11	12	0.13
T010	3.3	10.0	72.5	41	13	19.4	14	15	0.33
T020	4.8	14.5	90.5	48.5	16	20.0	19	18	0.53
T030	6.7	20.0	100.5	56	18	22.0	19	20	0.75
T040	10.9	32.7	119.5	60	24	27.0	26	26	1.03
T050	22.7	68.0	174	76.5	28	42.0	30	32	3.03
T050A	22.7	68.0	174	76.5	30	42.0	30	32	3.03
T060	27.2	81.6	183	76.5	32	42.0	34	32	3.20



ROPE TO ROPE & ROPE TO SWIVEL CONNECTORS



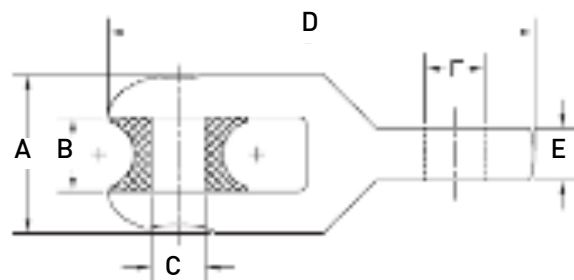
ROPE TO ROPE CONNECTORS



The Rope to Rope Connectors are used to connect two ropes of up to 22mm diameter. The entire product, including sheaves, are manufactured from Stainless Steel.

Model No.	Load (kN)	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
00521-035	66.7	22	50.8	23.8	17.5	139.7	1.23

ROPE TO SWIVEL CONNECTORS (MADE IN CANADA)



This product is used to connect a swivel to pulling rope. The entire product, including sheave, are manufactured from Stainless Steel.

Model No.	Safe Working Load (kN)	Max. Rope Dia. (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight (kg)	Fits Line Swivel
00522-025	31.1	22.0	50.8	23.8	17.5	134.9	12.7	13.4	0.9	00505-020
										00505-025
										00505-027
00522-035	66.7	22.0	50.8	23.8	17.5	136.53	16.6	19.0	1.0	00505-030
										00505-035

ROPE-STEEL WIRE-ANTI-TWIST

ANTI-TWIST STEEL WIRE PULLING ROPE

GALVANISED STEEL ANTI-TWIST PULLING ROPE - 12 STRAND BRAIDED



Manufactured with high quality materials and designed to withstand the harshest of conditions. Ideal for stringing aluminium, ACSR conductors & electric cables.

DETAILS

- Non Rotating
- Reduced loss of breaking load within spliced lengths
- Higher breaking load compared to other ropes of same diameter
- Reduced pressure on wire, thanks to linear contact of wires in Braided points
- Higher flexibility for better handling and joining
- Rope is spliced both ends
- Supplied on wooden or steel drums



SPECIFICATIONS

Rope Diameter (mm)	Breaking Load (KGS)	Nominal weight (KGS/m)	Production Lengths (m)
9	5150	0.25	2800-6400
11	9400	0.42	1600-3600
13	10500	0.54	1000-2600
16	16350	0.8	900-1800
18	23500	1.07	800-1200
20	26800	1.24	1200
22	33000	1.56	900
24	38000	1.76	800

Other sizes and production lengths available upon request



PELICAN ROPE 12-STRAND DYNEEMA



PELICAN ROPE
The Most Trusted Name in Rope™

HIGH STRENGTH UNDERGROUND CABLE PULLING AND OVERHEAD STRINGING ROPE



HIGH STRENGTH 12-STRAND DYNEEMA – the world's strongest fibre

All **DYNEEMA Ropes** are light blue urethane coated for extra abrasion resistance

This high performance rope is the first choice of top Industrial and Utility professionals

Unaffected by Oil and Common chemicals, this high strength rope is easily spliced, exhibits low flex fatigue, near zero creep, excellent abrasion resistance with a low elongation-to-break ratio. Load sharing and staggering failure built in can eliminate dangerous backlash.

Dyneema is Kilo for Kilo, 10 times stronger than steel and 33% lighter than Nylon with over 3x the strength of Polyester or Nylon.

Additional protection from dirt is provided by our urethane coating, Eyes are professionally hand-Spliced along with polyester chafe guards. Break strength remains constant in wet or dry conditions making this the perfect choice for cable pulling, overhead stringing, mooring and towing lines, offshore positioning ropes, yachting lines, commercial fishing ropes, round-slugs and tree climbing lines. With a specific gravity of 0.98, this rope floats!



DETAILS

- Low Stretch
- Near Zero Creep
- High UV resistance
- Floats and DOES NOT ABSORB Water
- Eliminate Backlash
- 6% Elongation at Break
- Excellent Abrasion Resistance
- 3x Stronger than Polyester or Nylon



SPECIFICATIONS*

Model No.	Rope Dia.	Break strength*	Weight per 30m
7DP-140	11.1mm	10,900kg	2.09kg
7DP-160	12.7mm	13,636kg	2.90kg
7DP-180	14.3mm	17,272kg	3.40kg
7DP-200	15.9mm	23,181kg	4.10kg
7DP-240	19.1mm	28,181kg	5.85kg
7DP-280	22.2mm	40,909kg	8.45kg
7DP-320	25.4mm	50,000kg	10.00kg

* Working Load Limit is 5:1 for Lifting and 3:1 for Pulling applications of "Break Strength" unless otherwise specified by manufacturer, local authority, procedure or guideline

ROPE-DOUBLE BRAIDED

HIGH FORCE COMPOSITE-DOUBLE BRAIDED CABLE PULLING ROPE



PELICAN ROPE
The Most Trusted Name in Rope™



With shock absorption properties similar to nylon and a higher tensile strength than either nylon or polyester, this rope offers even balance and excellent resistance to abrasion, sunlight and most common chemicals.

DETAILS

- Double-braided inner core with double-braided outer jacket
- 4:1 safety factor recommended for cable pulling.
- Rot and mildew resistant.
- Factory spliced eyes at both ends.
- Lowest stretch
- Select a rope with a maximum rated capacity that meets or exceeds the cable Puller's maximum capacity.
- White rope with green tracer for easy identification
- Supplied on heavy-duty plastic or wooden reel
- Suitable for use with pulling capstans
- Not recommended for use in areas where rope could become contaminated



SPECIFICATIONS

Model No.	Rope Diameter	Rope Length	Max Rated Capacity (kN)		Weight
	mm	M	WLL*	Breaking Load	Kg
4N-180-03S	14.3	91	13.6	54.6	12.7
4N-180-06S	14.3	182	13.6	54.6	28.6
4N-180-12S	14.3	365	13.6	54.6	59.0
SUITS GREENLEE 6001-22 CABLE PULLER					
4N-240-03S	19.1	91	28.6	114.5	26.3
4N-240-06S	19.1	182	28.6	114.5	51.3
4N-240-12S	19.1	365	28.6	114.5	104.3
SUITS GREENLEE 6800-22 CABLE PULLER					
4N-280-03S	22.2	91	33.5	134.1	40.8
4N-280-06S	22.2	182	33.5	134.1	80.7
4N-280-12S	22.2	365	33.5	134.1	163.3
4N-280-001	22.2	500	33.5	134.1	223.7

* Working Load Limit is 5:1 for Lifting and 3:1 for Pulling applications of "Break Strength" unless otherwise specified by manufacturer, local authority, procedure or guideline

NOTE: Longer rope lengths available on request

INSULATING ROPE



DETAILS

Red water repellent three strand insulating synthetic fibre rope with low water absorption coefficient, usually supplied in 100, 200 & 300m length rolls. For hot stick and bare hand work in overhead or substation applications. Dry tested at 100,000V per 300mm under humid conditions.

Quality manufactured (Under ISO 9001 & ISO 9002) conforming with IEC 62912, European Directive 98/37/EC, technical specification HTB-71B & HTB-71C.

SPECIFICATION

Model No.	Rope Size (mm) OD ¹	Length (m) on Roll	Breaking Load (daN)*	Wt per/m (g) Approx
982020	8	100	686	35
982019	8	200	686	35
982018	8	300	686	35
982022	14	100	2300	100
982023	14	200	2300	100
982024	14	300	2300	100
988630	16	100	3100	155
988631	19	100	3600	180

***Note** – Splicing may reduce the strength of the rope, only qualified personnel should splice this rope as per the manufacturer's recommendations. Contact us for more information on approved methods.

¹Special 35mm OD rope available upon request for slings and special applications



HANDLINE BLOCK & PULLING EYE

POWAQUIP

MODEL NO. HLB-560

Aluminium Hand Line Block

Lightweight aluminium hand line block used for hauling and lifting applications. Comes with top swivelling hook with safety latch. Side opening with ball lock pin secured to body with chain.

SPECIFICATIONS

Model No	HLB-560
WLL (kg)	560
Max Rope (mm) OD	14
Sheave Diameter (mm)	75



SPARE PARTS

Model No	Description
HLB-P&C	Pin & Chain
HLB-LK	Latch Kit - Spring, Gate & Pin



LATCH KIT
Model No. HLB-LK



PIN & CHAIN
Model No. HLB-P&C

MODEL NO. BPE-1 PULLING EYE

- For anchor rod pulling
- Large offset eye for 3 tonne shackle or hook
- Allows clearance for attaching formed wire grips
- Slide wedge design allows for a range of rods sizes
- Cast from high strength iron

Model No.	Anchor Rod Ø (mm)	WLL 5:1 (kg)	Wt (kg)
BPE-1	13-32	2721	2.2



RUNNING BOARDS



DETAILS

For connecting two or more conductors to pulling rope.

Running boards consist of;

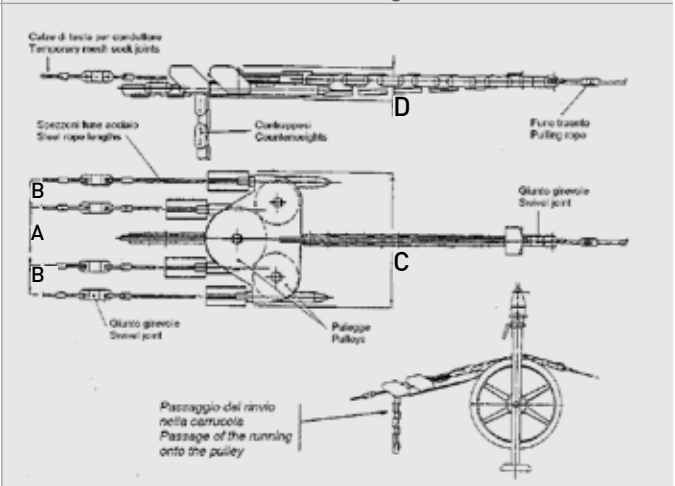
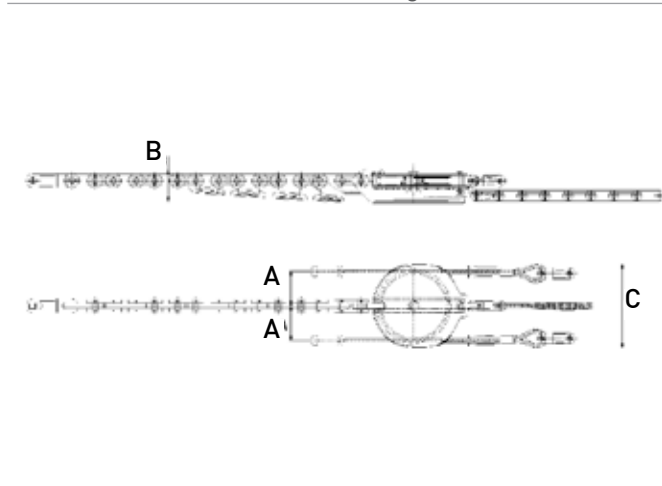
- Sheave/s with balancing counter weights
- Swivel joint for pulling rope
- Swivel joints for the conductor/s
- Anti-twist steel wire rope for conductor/s



2/3 Bundle Running Board



4 Bundle Running Board



(a) number of conductors – (b) joint for pulling rope – (c) joint for conductors

SPECIFICATIONS

Model No	Cond (a)	Dimensions (mm)				Joints (Model No.)		Rope for Conductors			WLL (kN)	UTS (kN)	Wt (kg)
		A	B	C	D	(b)	(c)	Ø mm	(e)m	(f)m			
F 153.2.1	2	146	160	360	-	250.24	250.18	16	16	-	100	300	140
F 153.2.2	2	174	170	410	-	250.24	250.18	16	16	-	100	300	155
F 153.2.6	2	100	115	245	-	250.18	250.16	13-16	16	-	66	200	85
F 153.3.1	3	146	160	360	-	250.24	250.18	18	16	7.5	116	350	155
F 153.3.2	3	174	170	410	-	250.24	250.18	18	16	7.5	116	350	175
F 153.3.6	3	100	115	245	-	250.18	250.16	13-16	16	7.5	83	250	90
F 154.4.1	4	290	100	540	160	250.24	250.18	18	30	30	100	300	200
F 154.4.2	4	340	130	640	160	250.24	250.18	18	30	30	100	300	220
F 154.4.5	4	296	148	640	160	250.24	250.18	18	30	30	100	300	220
F 154.4.6	4	356	178	760	160	250.24	250.18	18	30	30	100	300	240
F 154.4.8	4	340	130	640	180	250.18	250.24	18	30	30	250	750	270

(e) rope length for external conductors – (f) rope length for central conductors

JOINT COVERS & OPGW COUNTERWEIGHT

JOINT COVERS



DETAILS

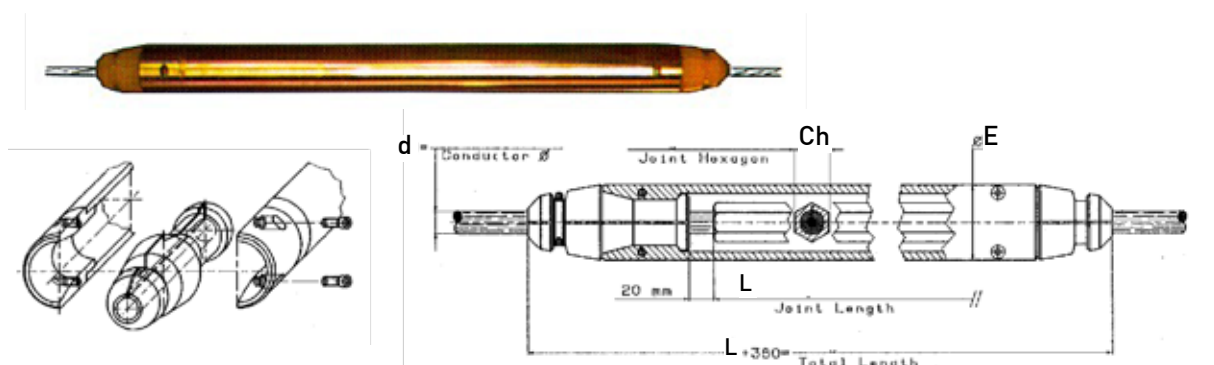
Joint protectors or joint covers are made up of two galvanised steel shells. The ends are shaped to hold rubber bevelled ends. Each cover is specially made to accommodate the bending radius of the conductor, during passage through running out blocks or rollers in stringing operations.

Note: Please specify the following dimensions for quotation;

L = length of the joint after pressing

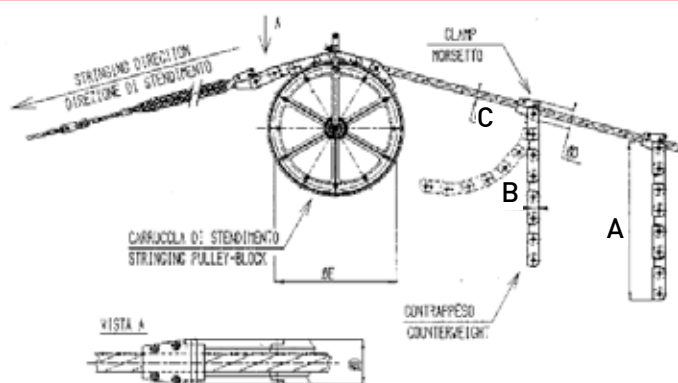
d = conductor diameter

ch = hexagon dimension of the joint after pressing



Model No	Cover External Ø (mm)	Conductor Ø (mm)	L max (mm)	Hexagon Ch max (mm)	Wt (kg)
F 166.40	50	9-20	700	28	10
F 166.60	60	12-24	800	38	16
F 166.62	62	18-32	1050	48	18
F 166.88	88	24-45	1300	56	28

F 198 SERIES OPGW COUNTERWEIGHT



Anti-twisting counterweight suitable for stringing overhead fibre optic cables (OPGW). The counterweight prevents the cable from twisting during passage through the rollers. Its shape is designed for passing through the grooves of the rollers without damaging the cable.

Note: The counterweights must always be used in pairs. When requesting a quotation, please specify the conductor diameter.

Model No.	Dimensions (mm)			Conductor Range (mm) OD	Roller		Weight (kg)
	D	A	B		Bottom of Groove Diameter (mm)	Groove Width (mm)	
F 198.50	50	1000	35	9-17	350/500	60/68	22
F 198.60	60	1000	40	13-17	500/800	68	26
F 198.60.1	60	1200	40	17-23	500/800	68	26
F 198.88	88	1400	60	17-30	650/800	95	41

MODEL NO. C 35



DETAILS

The C 35 is a stringing earth, a grounding device used while stringing overhead bare conductors or pulling ropes.

The device has aluminium alloy sheaves with high quality bushes and provide electric continuity even on junction points. It has a mobile spring mounted sheave for safe contact on conductors with junctions.

SPECIFICATIONS

Clamping capacity: 8 to 50 mm.

Short-circuit current: 20 kA for 1 second (mod. C 35.2) or 30 kA for 1 second (mod. C 35.3).

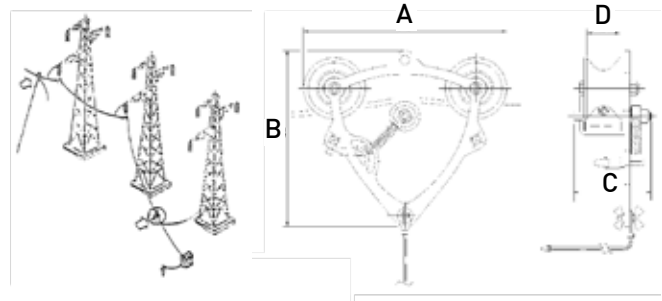
Supplied with:

Copper cable section 50 mm² lined with high insulating coverage, length 5 m.

Light-alloy clamp, clamping capacity 40 mm.

Metal box for storage (mod.C 35.2).

Plastic box for storage (mod. C 35.3).



MODEL NO. C 35.2

Short-circuit current: 20 kA for 1 second.

Dimensions: A x B x C = 430 x 370 x 160 mm.

Weight: 7,5 kg.

Metal box dimensions: 500 x 500 x 200 mm.

Metal box weight: 14 kg



MODEL NO. C 35.3

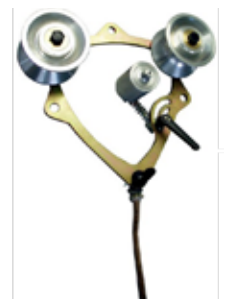
Short-circuit current: 30 kA per 1 second.

Dimensions: A x B x C = 500 x 550 x 150 mm.

Weight: 8,5 kg.

Plastic box dimensions: 250 x 450 x 130 mm.

Plastic box weight: 3,5 kg.



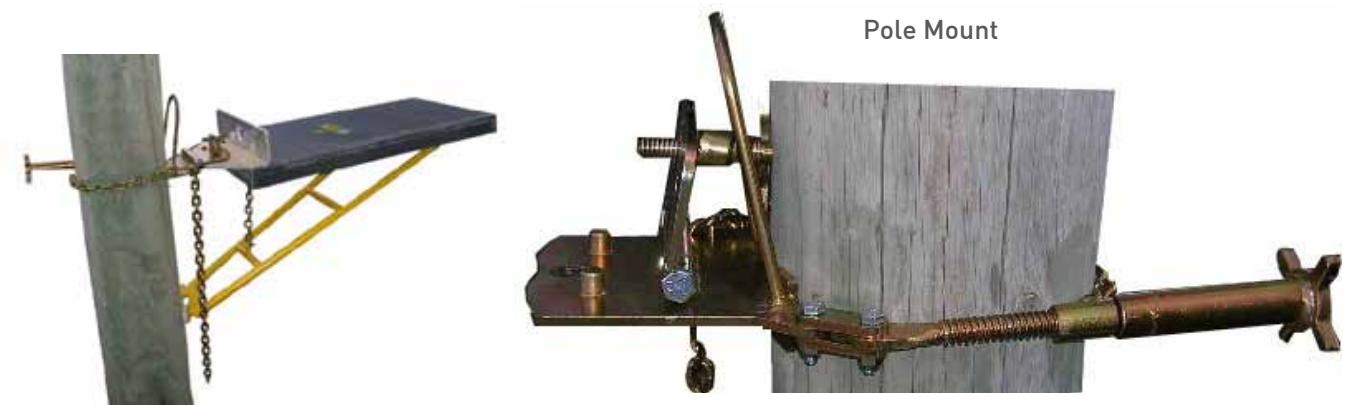
Model No	Description	Clamp Capacity (mm)	Cable Length (m)	Fault Current Rating	Wt (kg)
C 35.2	Stringing Earth, Cable & Metal Box	8-50	5	20kA/1sec	7.5 (Earth) 14 (Case)
C 35.3	Stringing Earth, Cable & Plastic Box	8-50	5	30kA/1sec	8.5 (Earth) 3.5 (Case)
C 35.0	Stringing Earth & Cable	8-50	5	20kA/1sec	7.5 (Earth)

POLE PLATFORM

MODEL NO. MPPP-700 POLE PLATFORM



This unit comes in two parts, one to secure onto the power pole as stage one and the standing unit to complete the set up. Manufactured with a combination of aluminium, steel, rubber and polyurethane this unit is tested and certified.



Model No.	Description	WLL (kg)	Wt (kg)
MPPP-700	Multi-Purpose Pole Platform	150	15

CONDUCTOR BICYCLE & TROLLEY

CONDUCTOR BICYCLE



DETAILS

Cable or conductor bicycles for single, twin, three and four bundle conductor. Nylon wheels are mounted on ball-bearings.

Suitable for travelling along conductors like a common bicycle. Units are equipped with negative-type disc brake and a safety brake clamping the conductor, transmission by cardanic joint, safety belt, and metre counter.

Optional: Bag for conductor spacers – available upon request.



Picture				
Conductor Type				
Model No	C 175.1	C 175.2	C 175.3	C 175.4
Capacity (KN)	1	1	1	1
Dimensions (M)	1.15x0.50x1.81	0.75x0.70x1.40	0.70x0.6x1.4	1.6x0.70x1.5
Weight (KG)	24	34	43	49

LINE TROLLEY - SINGLE PERSON, SINGLE CONDUCTOR

Photo & Drawing		
Model No	C 155.10	C 150.11
Description	Single-seat line car suitable for single conductors. Manual pull type. Aluminium alloy structure with nylon wheels mounted on ball-bearings. Nylon band for back support.	Single-seat line car suitable for single conductors. Manual pull type. Aluminium alloy structure with nylon wheels mounted on ballbearings. Parking brake. Nylon band for back support. Foot rest.
Capacity (KG)	100	100
Weight (KG)	7	12

LINE TROLLEY - 1 OR 2 PERSONS, SINGLE CONDUCTOR

LINE TROLLEY - 1 OR 2 PERSONS, SINGLE CONDUCTOR



Photo				
Drawing				
Model Series	C 155.10		C 155.11	
Description	Fit for 2 people. Manual pull type. Aluminium alloy structure with nylon wheels mounted on ball-bearings. Parking brake. Equipped with metre counter.		Fit for 2 people manual pull type. Aluminium alloy structure with nylon wheels mounted on ball-bearings. Parking brake. Equipped with metre counter.	

Model No	Suitable for Persons	Capacity (kg)	Length (mm)	Height (mm)	Width (mm)	Weight (kg)
C 155.10.A	1	100	650	1650	630	29
C 155.10.B	2	200	1000	1650	630	42
C 155.11	2	200	2820	2150	610	83

LINE TROLLEY – 1-2 PERSONS, TWIN & TRIPLE CONDUCTOR

LINE TROLLEY – 1-2 PERSONS, TWIN & TRIPLE CONDUCTOR



Photo & Drawing				
Model No	C 155.A.2	C 155.AM.2	C 151.2	C 151.3
Description	Cable-car for twin conductor electric lines. Manual pull type. Made of light alloy structure with nylon wheels mounted on ball bearings. Stationary brake and metre counter. Adjustable distance between wheels: 400 to 500 mm.	Cable-car for twin conductor electric lines. Driven type. Made of light alloy structure with nylon wheels mounted on ball-bearings. Transmission axle with high adherence rubber wheels. Stationary brake and metre counter. Adjustable distance between wheels: 400 to 500 mm. Petrol engine 1.8kW, 2 strokes, 48 cc. Translation speed 0-20m/min, max inclination 25%. Mechanical transmission with idle device.	Double-seat cable car for twin electric lines. Manual pull type. Made of light alloy structure with nylon wheels mounted on ballbearings. Stationary brake. Nylon strap for back support. Footrest. Max spam between conductors: 500 mm (exact span to be specified on purchase order).	Double-seat cable car for 3-bundle electric lines. Manual pull type. Made of light alloy structure with nylon wheels mounted on ball-bearings. Stationary brake. Nylon strap for back support. Footrest. Max spam between conductors: 500 mm (exact span to be specified on purchase order).
Capacity (kg)	100	100	300	300
Weight (kg)	23	56	41	41
Notes	Also available for 3-bundle lines: Model No. C 155.A.3	Also available for 3-bundle lines: Model No. C 155.AM.3	Optional: Metre counter	Optional: Metre counter Also available for 4-bundle lines: Model No. C 151.4

MANUAL CONDUCTOR TROLLEY – 1-2 PERSONS

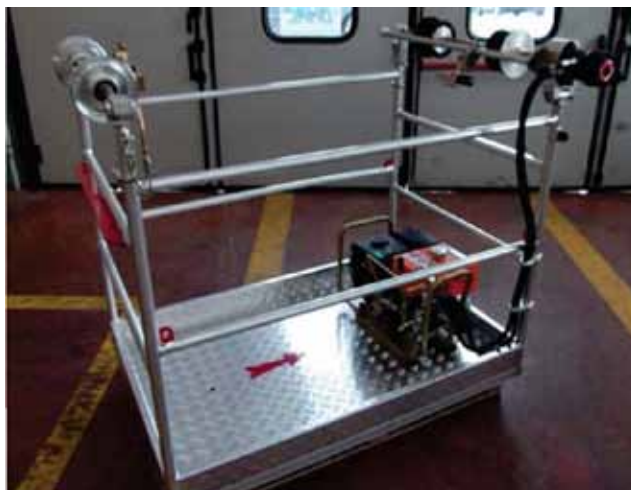
LINE TROLLEY – 1-2 PERSONS, TWIN & TRIPLE CONDUCTOR, STANDARD

OMAC
ITALY

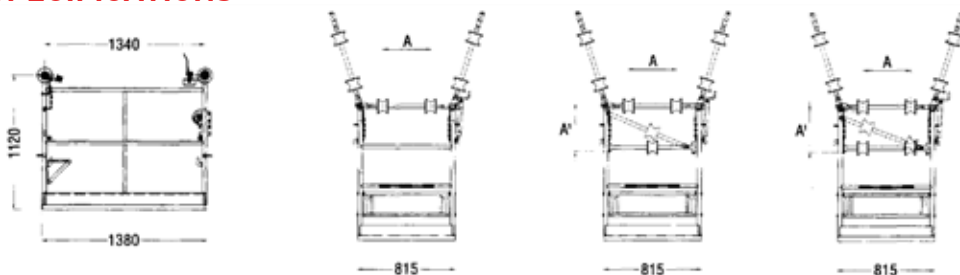
C 155.B2



C 155.BM



DETAILS & SPECIFICATIONS



Conductor Lines	2	3	4
Model No. (Manual)	C 155.B.2	C 155.B.3	C 155.B.4
Weight Without Engine (kg)	45	50	55
WLL (kg)	200	200	200
Description	Line-car suitable for 2 people, fit for 2, 3 or 4 bundle conductor electric lines. Driven type. Made of light alloy structure with nylon wheels mounted on ball-bearings. Stationary brake and metre counter.		
Model No. (Motorised)	C 155.BM.2	C 155.BM.3	C 155.BM.4
Weight With Engine (kg)	115	125	140
WLL (kg)	200	200	200
Description	Line-car suitable for 2 people, suitable for 2, 3 or 4 bundle conductor. Driven type. Light alloy structure. Aluminium wheels mounted on ball-bearings. Drive wheels lined with polyurethane with high coefficient of friction. Transmission axle with high grip rubber wheels. Stationary brake and metre counter. Petrol engine 3.7 kW, 48cc with hydraulic power unit. Drive speed 0-30 metres/min, max inclination 40%. Removable engine and hydraulic transmission components.		

Note: dimensions A and A' are adjustable 400-457-500 mm, up to 600 mm (on request)

Line cars with different dimensions can be produced on request

MANUAL & MOTORISED CONDUCTOR TROLLEY – 2 PERSONS

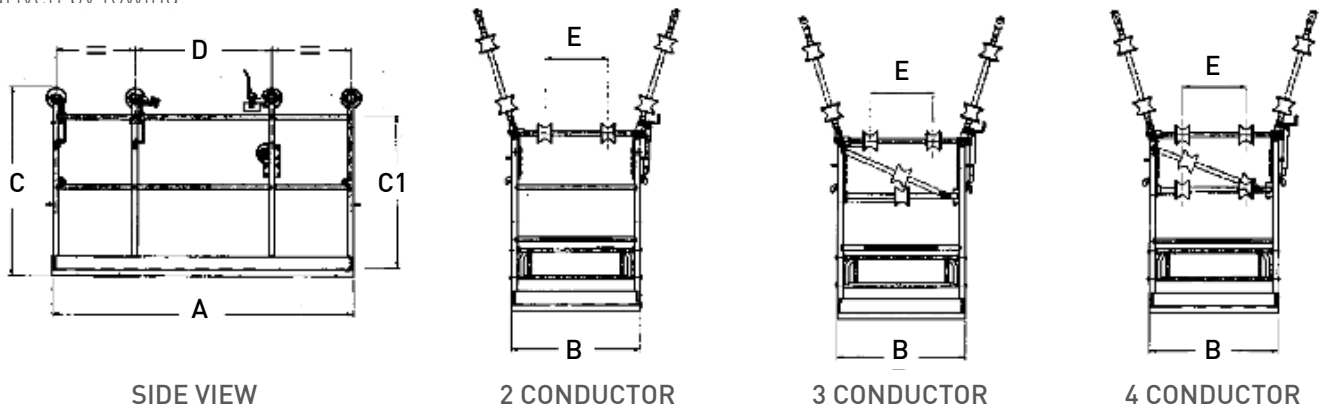
MODEL NO. C 155.C & C 155.D (MANUAL)



DETAILS

Line-car suitable for 2 people, fit for 2, 3 or 4 bundle conductor. Light aluminium-alloy structure welded TIG-system. Four opening arms for wheels, fit for passing obstacles.

Aluminium wheels mounted on bearings. Parking brake. Metre counter. Service platform. Fit for 2 operators. driven by towing



Model No	Conductors	Max Load (kg)	Dimensions (mm)						Wt (kg)
			A	B	C	C1	D	E	
C 155.C.2	2	200	1900	850	1250	1100	865	400-500	80
C 155.C.3	3	200	1900	850	1250	1100	865	400-500	83
C 155.C.4	4	200	1900	850	1250	1100	865	400-500	85
C 155.D.2	2	200	1900	950	1350	1200	865	400-600	87
C 155.D.3	3	200	1900	950	1350	1200	865	400-600	90
C 155.D.4	4	200	1900	950	1350	1200	865	400-600	95

OPTIONAL

- 01 - Nylon wheels mounted on bearings.,
- 02 - Negative disc brake, with manual opening.
- 03 - Arms for wheels opening on horizontal rotation

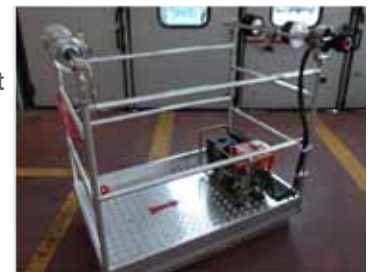
MODEL NO. C 155.CM (MOTORISED)

DETAILS (Refer to drawing above)

Motorised line-car for 2 people, suitable for 2-, 3- or 4- bundle conductor. Light aluminium-alloy structure welded TIG-system. Four openable arms for wheels, fit for passing obstacles.

Aluminium wheels lined with high grip rubber. Parking brake acting on the conductor. Metre counter. Service platform. Fit for 2 operators. Hydraulically driven wheels. Petrol engine 2.9 kW. Variable speed 0 to 30 metres/min in both directions.

Maximum inclination allowed: 40%. Power pack is removable.



C 155.BM.2

Model No	Conductors	Max Load (kg)	Dimensions (mm)						Wt (kg)
			A	B	C	C1	D	E	
C 155.CM.2	2	200	1900	950	1250	1100	865	400-600	158
C 155.CM.3	3	200	1900	950	1650	1500	865	400-600	167
C 155.CM.4	4	200	1900	950	1650	1500	865	400-600	175

OPTIONAL

- 03 - Arms for wheels opening in horizontal rotation.
- 04 - Earthing device.

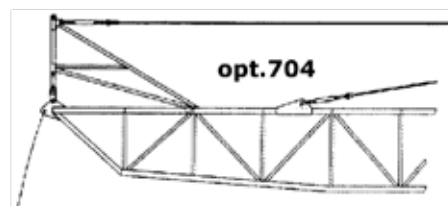
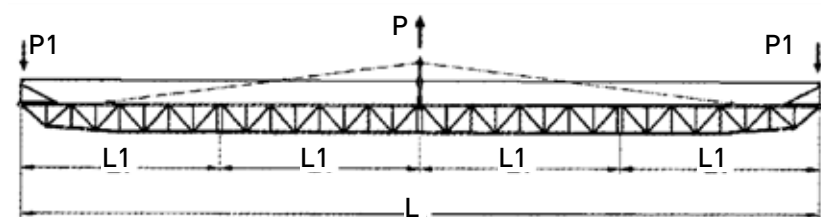
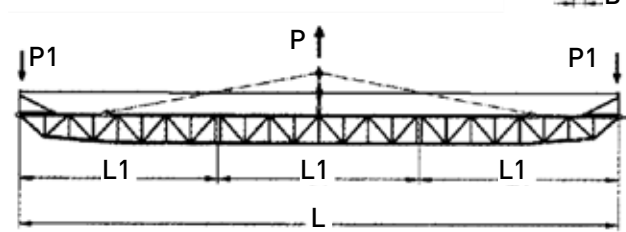
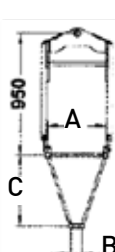
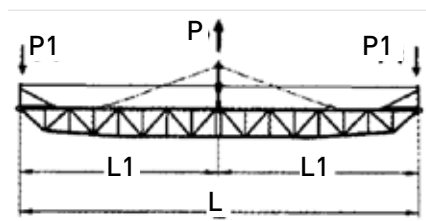
SUSPENSION PLATFORMS

F 127 SERIES SUSPENSION PLATFORMS



Suspension platform for overhead line work. Aluminium alloy structure.
Made of two or more trapezoidal sections, with central fitting and lateral hooks for anchoring. Complete with wire ropes and turnbuckles for cable-staying.

SPECIFICATIONS



OPTIONAL

701 Trolley for press, swivelling 360°.

703 Rail for press-trolley

704 Double-side anti-fall protection

704 1 Single-side anti-fall protection

On demand, custom built suspension platforms with higher capacities or different lengths

Model No	Total Length (m)	Length of Each Section L1 (m)	Part WLL P1 (kg)	Total WLL P1&P1-P (kg)	UTS (kg)	Dimensions (mm)			Wt (kg)*
						A	B	C	
F 127.4	4	4	300	600	1800	350	90	400	50
F 127.5	5	5	300	600	1800	350	90	400	59
F 127.6	6	6	300	600	1800	350	90	400	64
F 127.6.2	6	3+3	300	600	1800	350	90	400	69
F 127.7.2	7	3.5+3.5	300	600	1800	350	90	450	76
F 127.8.2	8	4+4	300	600	1800	350	90	450	85
F 127.10.3	10	4+2+4	300	600	1800	350	90	450	105
F 127.12.3	12	4+4+4	300	600	1800	350	90	450	115
F 127.14.3	14	5+4+5	300	600	1800	350	90	450	130
F 127.16.3	16.5	5.5+5.5+5.5	300	600	1800	350	90	450	140
F 127.18.3	18	6+6+6	300	600	1800	350	90	450	164
F 127.20.4	20	5+5+5+5	300	600	1800	450	90	550	198
F 127.24.4	24	6+6+6+6	300	600	1800	450	90	550	260

(*) weight including 1 single antifall device opt.704.1

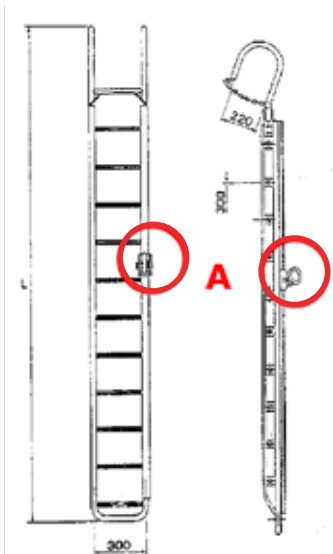
C 167 SERIES SUSPENSION LADDERS (VERTICAL)



Suspension ladder suitable for working on transmission towers.
Aluminium alloy construction, TIG welded, in one piece or more separated pieces for ease of transport. Hook complete with steel safety chain.

MODEL NO. C 167.AS

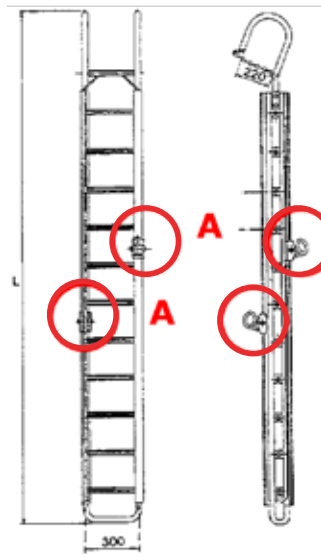
Ladder with one guide for antifall device type **DA1**



Type AS
Single Anti-Fall Device

MODEL NO. C 167.AD

ladder with two guides for antifall devices type **DA1**



Type AD
Double Anti-Fall Device



ANTIFALL DEVICE
* DA1 - SUPPLIED
WITHOUT LANYARD



OPTIONAL

DA1 - Antifall device (part 'A').

AGM - Wider hook opening (220 to 400 mm).



Model No (AS) Single Guide	Model No (AD) Double Guide	Total Length (m) (L)	No of Sections	WLL (kg)	Wt (kg)
C 167.AS.251	C 167.AD.251	2.5	1	300	11
C 167.AS.301	C 167.AD.301	3.0	1	300	14
C 167.AS.351	C 167.AD.351	3.5	1	300	15
C 167.AS.401	C 167.AD.401	4.0	1	300	16
C 167.AS.451	C 167.AD.451	4.5	1	300	18
C 167.AS.501	C 167.AD.501	5.0	1	300	21
C 167.AS.601	C 167.AD.601	6.0	1	300	23
C 167.AS.602	C 167.AD.602	6.0 (4+2)	2	300	24
C 167.AS.652	C 167.AD.652	6.0 (4+2.5)	2	300	30
C 167.AS.802	C 167.AD.802	8.0 (4+4)	2	300	35
C 167.AS.1002	C 167.AD.1002	10.0 (5+5)	2	300	41

SUSPENSION LADDERS

C 167F SERIES SUSPENSION LADDER/PLATFORM

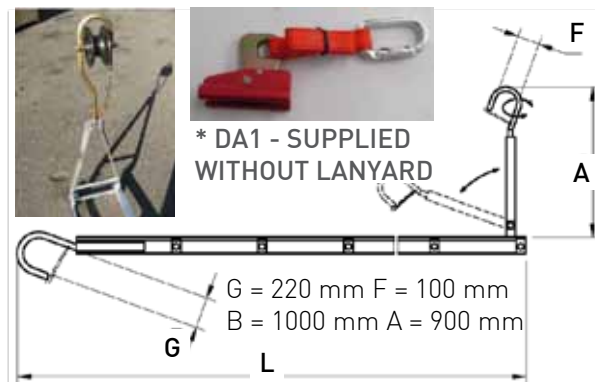


MODEL NO. C167F

Suspension ladder suitable for vertical or horizontal use. Aluminium alloy structure welded with TIG system, complete with T profile for anti-fall device. Interchangeable tower hook made of galvanised steel. Foldable end with conductor hook allows of use the ladder in horizontal position.

OPTIONAL

- 01 - Conductor hook complete with nylon sheave.
- 02 - Special structure with horizontal working load of 200kg
- DA1 - Anti-fall device.



SPECIFICATIONS

Model No (AS) Single Guide	Total Length (m) (L)	No of Sections	Vertical WLL (kg)	Horizontal WLL (kg)	Wt (kg)
C 167.F.251	2.5	1	300	100	15.0
C 167.F.301	3.0	1	300	100	16.5
C 167.F.351	3.5	1	300	100	18.5
C 167.F.401	4.0	1	300	100	20.0
C 167.F.501	5.0	1	300	100	23.5
C 167.F.601	6.0	1	300	100	29.5
C 167.F.602	6.0 (4+2)	2	300	100	30.5

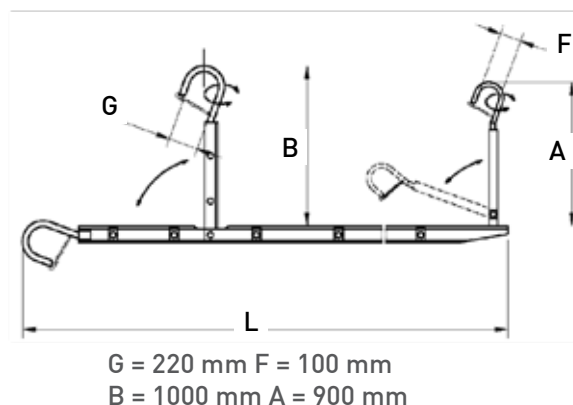


C167G SERIES SUSPENSION LADDER/PLATFORM

Suspension ladder suitable for vertical and horizontal use. Aluminium alloy structure welded with TIG system, complete with T profile for anti-fall device. Folding ends, fitted with hooks for tower and for conductor, allow use of the ladder as a horizontal platform.

OPTIONAL

- 01 - Conductor hook complete with nylon sheave.
- 02 - Special structure with horizontal working load of 200kg
- DA1 - Antifall device.



SPECIFICATIONS

Model No (AS) Single Guide	Total Length (m) (L)	No of Sections	Vertical WLL (kg)	Horizontal WLL (kg)	Wt (kg)
C 167.G.301	3.1	1	300	100	18.5
C 167.G.401	4.1	1	300	100	22.0
C 167.G.501	5.0	1	300	100	26.0
C 167.G.601	6.2	1	300	100	32.0
C 167.G.602	6.2	2	300	100	34.0

SERIES C 161 SUSPENSION LADDERS



Anchoring ladder made of light aluminum alloy, with steps made of antislip material and suspension hooks in hot-dip galvanised steel. The ladder is complete with a swivel hook for attaching to conductor, for use in horizontal position. The ladders are available in trapezoidal shape which allows for greater strength and durability.

OPTIONAL

GG2 - Swivel hooks on both ends.

01 - Hook for conductor complete with nylon pulley.



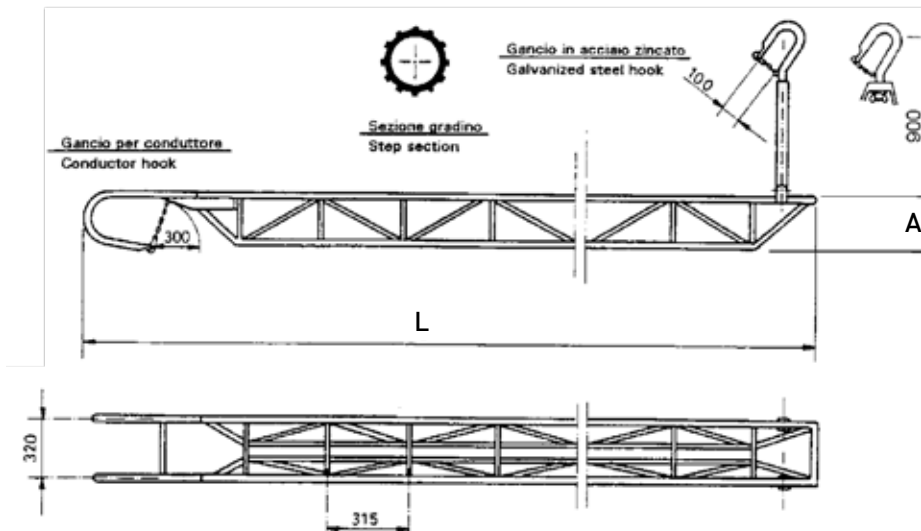
Ladder in vertical use



Ladder in horizontal use



opt.01 Hook with pulley



Model No	Shape	Total Length (m) (L)	Length of Parts (m)	Dimension A (mm)	UTS (kg)	WLL (kg)	Wt (kg)
C 161.TP.351	TRAPEZOIDAL	3.5	3.5	320	1500	300	17
C 161.TP.451	TRAPEZOIDAL	4.5	4.5	320	1500	300	22
C 161.TP.501	TRAPEZOIDAL	5	5	320	1500	300	24.5
C 161.TP.601	TRAPEZOIDAL	6	6	350	1500	300	27.5
C 161.TP.652	TRAPEZOIDAL	6.5	4.5+2	350	1500	300	31
C 161.TP.702	TRAPEZOIDAL	7	4+3	350	1500	300	35
C 161.TP.802	TRAPEZOIDAL	8	4+4	350	1500	300	40



MISCELLANEOUS ALUMINIUM ALLOY EQUIPMENT

MISCELLANEOUS ALUMINIUM ALLOY EQUIPMENT

OMAC
ITALY

Available on request, contact us for more information;

Ladders for pole climbing



Modular ladders made of aluminium alloy, suitable for climbing round poles.

Structures for conductor crossings



Aluminium pole structure used during construction and maintenance of power lines over roads, railways, water ways or towns. Made of light aluminium-alloy. Supplied square or triangular section modules.

Gin Poles



Gin poles made of aluminium alloy tubular structure welded with TIG system. Made of two or more separate parts.

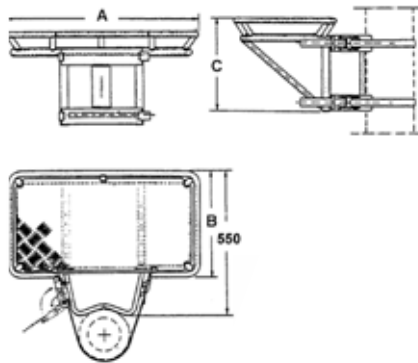
Available with external wire-rope passage (standard) or internal wire-rope passage (optional).

Complete with swivelling head, base with ground plate and base hook for tower attachment.

MISCELLANEOUS ALUMINIUM ALLOY EQUIPMENT

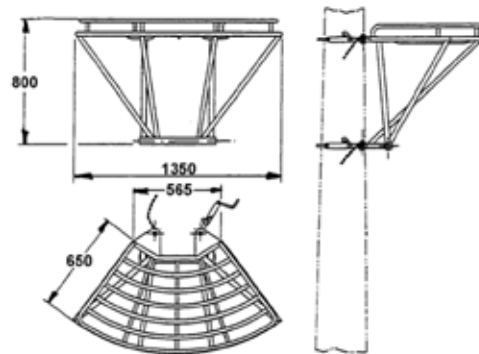


Service Platform



Service platform suitable for use on poles for maintenance of overhead equipment. Made of aluminium alloy, with double nylon straps and ratchet for pole attachment.

Semicircular Platform



Semicircular platform for working on poles, suitable for circular poles, it is particularly suitable for long operations. Made of aluminium alloy, frame with double fittings, complete with ratchet and galvanised steel chain.

SAGGING SCOPE

Sagging scope for conductors, complete with fittings for tower legs. Supplied with protective case.

SPECIFICATIONS

MODEL NO. SAG 900

Dimensions: 400 x 300 x 180 mm
Weight: 12 kg

OPTIONAL

- 001 - Device for anchorage on round poles up to 600 mm diameter.
- 002 - Stadia (site boards) for easier and more precise sagging operation. Equipped with level for horizontal alignment. Supplied with case.



METRE COUNTERS, THERMOMETERS & SPECIAL ROLLERS

METRE COUNTERS

OMAC
ITALY

MODEL NO. F 77

Device for measuring the length of ropes and cables. Measuring wheel made of steel. Idle wheels made of aluminium or nylon.

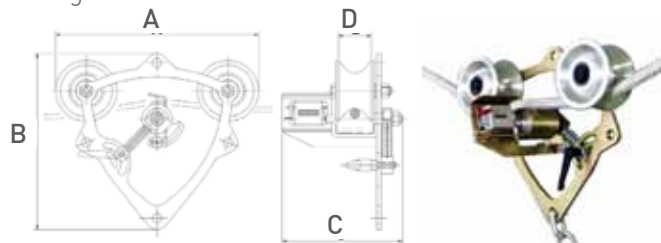
SPECIFICATIONS

Fit for ropes and conductors with diameter up to 50 mm.

Dimensions:

A x B x C = 430 x 370 x 255 mm; D = 70 mm

Weight: 5.5 kg



Desk metre counter for measuring the length of cables and ropes. Mechanical counter with zeroing facility. Plastic driver bushes. On demand: adjustable support pedestal. Contact us for more information.



THERMOMETER



MODEL NO. F 196.A

Thermometer for conductors. Column reading, scale in Celsius degrees (°C). length 600 mm, weight 0,5 to 1 kg. NOTE: in order, please specify the diameter of the conductor. Supplied with case.

MODEL NO. F 196.C

Thermometer for conductors. Dial diameter 80 mm, with sensor incorporated, can be fixed easily on the conductor by means of elastic clamp. Dual scale (°C and °F). Supplied with case.



OVERHEAD INSULATOR & ABC ROLLERS



Insulator Cable Roller



ABC Roller Guide & Fixing Clamp

Insulator cable bracket to suit vertical post insulator with top clamp. The unit folds together on a hinge and has a hand screw up handle. A top ring allows the unit to be carried easily or lowered from pole tops with rope.

Suitable for 4x95mm² and 4x150mm² ABC (Aerial Bundled Cable). Assembly is in two parts (Roller Guide & Cable Clamp). Handle sold separately (See below).

Model No.	Description	Suits Insulator Necks (mm)	Wt (kg)	Model No.	Description	Handle to Suit Model No. ABC-4X150
ICB-040B	Insulator Cable Bracket with 40mm OD Rollers	55-100	6.5	ABC-4X150	ABC Roller for 4x95-4x150	ABC-H

UNIVERSAL STRINGING ROLLER & ACCESSORIES

POWAQUIP

UNIVERSAL STRINGING ROLLER

A high-strength alloy gives this block a 1,135kg working load limit. The throat opening is 95.25mm high and 80mm wide. The 75mm wide, 175mm diameter sheave runs on heavy duty sealed ball bearings. The ball-eye socket clevis attachment accepts optional fittings to suspend the roller (See Below). For Urethane lined sheave, use Model No. CB-1L.









Model No	Description	WLL (kg)	Bottom of Groove X (mm)	Height (mm) Inc Socket	Width (mm)	Wt (kg)
CB-1	Roller Universal Stringing Al Sheave	1,135	110	370	205	4.05



CB-1 shown with RS-1

MOUNTING BRACKETS FOR UNIVERSAL STRINGING ROLLER

Brackets for mounting universal stringing roller CB-1.

Product				
In Use				
Model No	RS-1	CAB-1	IB-1	AIA-J
Description	Bracket – Ratchet Strap, for ease of mounting CB-1 roller at almost any angle on all size cross-arms, concrete, steel and wooden poles	Bracket – Cross-Arm, allows the CB-1 Roller to be mounted to a cross-arm at almost any angle	Bracket – Insulator Top, with urethane jaws. Allows the CB-1 roller to be mounted to an insulator at almost any angle	Bracket – Insulator Top, allows the CB-1 Roller to be mounted to 22/33kV insulators at almost any angle
Suits	All Cross-Arms. Wood, Concrete & Steel Poles	Cross-Arms up to 146 x 159mm	Insulators, most small to medium neck size	Insulators, most small to large (Including 22/33kV)
WLL (kg)	666	1,135	1,135	1,135

SUSPENSION ADAPTORS FOR UNIVERSAL STRINGING ROLLER

Suspension fittings for suspending rollers with ball-eye socket clevis.

Product			
Model No	T14	T15	T12
Description	Ball Clevis	"Y" Ball Clevis	Ball Safety Hook

OVERHEAD ROLLERS – CROSSARM & HANGING



OVERHEAD CROSSARM ROLLERS (MADE IN AUSTRALIA)



Model No.	Description	Wt (kg)
CARR-080	Inline Roller for any composite/wood crossarms, 1 horizontal roller, ratchet strap type	5.7



Model No.	Description	Wt (kg)
FCARR-100	Roller for composite/wood crossarms up to 100mm, 2 vertical/2 horizontal rollers, rubber mounts, ratchet strap type	5.7



Model No.	Description	Wt (kg)
FCARR4-100	Roller for composite/wood crossarms up to 100mm, 4 vertical/2 horizontal rollers, rubber mounts, ratchet strap type	6.5

FCARR4-150	Roller for composite/wood crossarms 100-150mm, 4 vertical/2 horizontal rollers, rubber mounts, ratchet strap type	6.6
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WCAR-100 shown

Model No.	Description	Wt (kg)
WCAR-100	Roller for wood crossarms up to 100mm, 2 vertical/horizontal rollers, "T" screw handle	4.2
WCAR-150	Roller for wood crossarms up to 150mm, 2 vertical/horizontal rollers, "T" screw handle	6.0



Model No.	Description	Wt (kg)
WCAR4-100	Roller for wood crossarms up to 100mm, 4 vertical/2 horizontal rollers, "T" screw handle	5.0



WCCR-100 shown

Model No.	Description	Wt (kg)
WCCR-100	External Corner Roller for wood crossarms up to 100mm, 4 vertical/2 horizontal rollers, "T" screw handles	7.0
WCCR-150	External Corner Roller for wood crossarms up to 150mm, 4 vertical/2 horizontal rollers, "T" screw handles	7.1



WCASCR-150 shown

Model No.	Description	Wt (kg)
WCASR-100	Inline Roller for wood crossarms up to 100mm, 2 vertical/4 horizontal rollers, "T" screw handles	5.6
WCASR-150	Inline Roller for wood crossarms up to 150mm, 2 vertical/4 horizontal rollers, "T" screw handles	6.0



Model No.	WLL (kg)	Description	Wt (kg)
CASB-800	300	Roller Support Bracket for crossarms, can be used on wood, steel and concrete poles, with heavy duty ratchet strap	5.8

OVERHEAD ROLLERS – CROSSARM & HANGING



HANGING ROLLERS (MADE IN AUSTRALIA)

Photo					
Model No	ACB145-60	ABC175-60	ABC66-28	APB-1100	ASCB-080
Description	ABC Roller with Side Pin Gate & Safety Hook, Al Sheave 145mm, 50mm OD Max Cable, WLL 2,000kg	ABC Roller, swing apart, plastic sheave 170mm	ABC Roller, swing apart, plastic sheave 66mm	Roller, Plastic Nylon Sheave 1,100kg WLL	ABC Roller, Side Screw Latch, Aluminium Length 110mm (Also available 150mm) WLL 500kg
Photo					
Model No	CSR-010	PER-01	SCR-01	SCR-02	TRCG-140
Description	Catenary Stringing Roller, Plastic Sheave	Parallel Earth Roller with Plastic Sheave	Single Stringing Contact Roller, Metal Sheave	Double Stringing Contact Roller, Metal Sheave	Triple Aluminium Roller, Lightweight Al Sheaves and Safety Hook with Latch, 1000kg WLL

FIBRE OPTIC ROLLERS (MADE IN AUSTRALIA)



AFG90-2



AFG90-80



APBR-30

Model No.	Description
AFG90-1	Roller 90 Degree with Single Middle Roller and Retainer Arms
AFG90-2	Roller 90 Degree with Double Middle Roller and Retainer Arms
AFG90-80	Roller 45 Degree with Single Middle Roller and Retainer Arms
APBR-30	Pole Bracket for AFG Type Rollers (Makes rollers horizontal)
AVH-50	Adaptor for AFG Type Rollers (Makes rollers vertical)



AVH-50

STRINGING ROLLERS, HELICOPTER & BUNDLE

POWAQUIP

STRINGING ROLLERS ALUMINIUM SHEAVE, URETHANE LINED & HELICOPTER



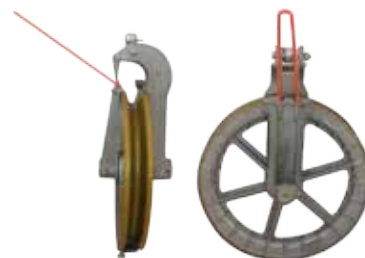
SIDE VIEW
(BOTH TYPES)



URETHANE LINED



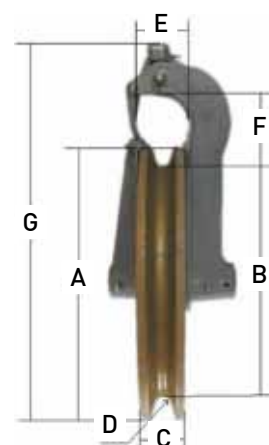
ALUMINIUM SHEAVE



URETHANE LINED WITH
HELICOPTER ARM

FEATURES

- Supplied with removable **Helicopter Arm** for aerial stringing
- Spring loaded entry gate for helicopter stringing
- T6 heat treated high strength aluminium alloy A356 for entire frame construction
- Precision ground, deep groove type shielded ball bearings
- All ferrous components are protected from corrosion by zinc plating or hot dip galvanised
- Optional Urethane lined sheaves are high strength, wear resistant (Neoprene also available)
- Standard 20kN ball-eye socket clevis attachment supplied standard on rollers
- Working load limit (WLL) is referenced to single resultant vertical load
- Refer bottom of page for optional **Traveller Stand**



Aluminium Sheave Model No.*	Urethane Lined Model No. * ¹	Dimensions (mm)							Qty Fit in Cage ²	Wt (kg)	WLL (kg)
		A	B	C	D	E	F	G			
PQR-A-218	PQR-U-218	267	218	80	13	90	113	432	65	6.8	3182
PQR-A-355	PQR-U-355	419	356	61	16	81	96	610	25	11.8	4091
PQR-A-457	PQR-U-457	559	457	82	21	102	140	749	11	23.2	5455
PQR-A-609	PQR-U-609	711	610	90	22	110	152	914	6	31.4	5455
PQR-A-711	PQR-U-711	819	711	91	24	110	152	1006	5	35.5	5455
PQR-A-774	PQR-U-774	889	775	91	27	110	152	1079	5	39.1	6818
PQR-A-906	PQR-U-906	1016	907	91	26	110	152	1194	3	53.2	6818
PQR-A-914	PQR-U-914	1067	914	152	51	175	228	1270	-	81.4	6818

¹ Neoprene also available upon request, example of code would be # PQR-N-218

² Rollers can be supplied in handy transportable steel mesh forklift cages (1090x1010x1000mm).

ROLLER OPTIONS



Model No. Suffix

-S

Description

Traveller Stand for bottom of roller

Example of Model No.

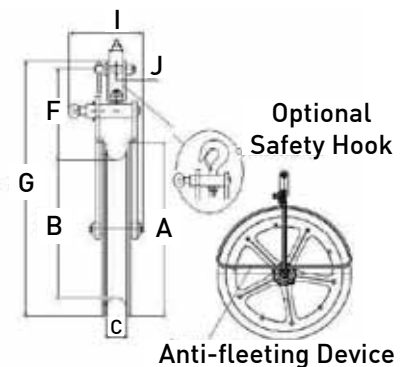
PQR-U-457-S

"-S" Traveller Stand mounted to the bottom of roller

SEE PAGE F46 FOR SUSPENSION SOCKET FITTINGS

OVERHEAD CONSTRUCTION & STRINGING EQUIPMENT

POWAQUIP



F50

STRINGING ROLLERS - SINGLE

MODEL NO. F 144 & F 150 SINGLE STRINGING ROLLERS



Single sheave running out block suitable for stringing overhead conductors. Aluminium sheave mounted on sealed ball bearings. Grooves lined with nylon sectors. Opening galvanised steel frame with non-fleeting device. Standard swivelling fork attachment.

SPECIAL FOR OPGW: model **F 144.100.60** is specially designed for fibre optic conductors.

OPTIONAL

301.1 Swivelling hook attachment (**model GG**).

301.2 Fixed hook (**model FT**).

314 - Bottom groove lined with aluminium sectors (only for sheaves with groove width **E= 38, 50, 60 & 68mm**).

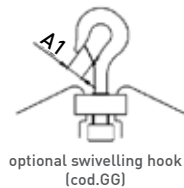
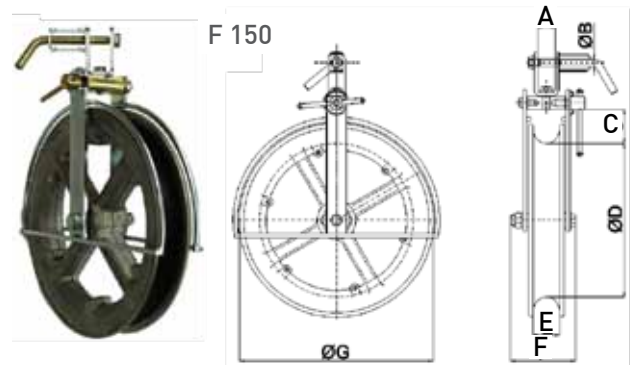
320 - Box for transport and storage (**model F 144.C**).

326 - Earthing device (option **314** needed). Only for aluminium sectors

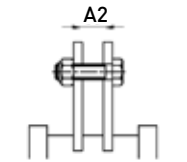
327 - Non-fleeting device (**standard on model F 150**).

328 - Special U-shaped frame.

329 - Copper cable with transparent PVC protection, with a clamp for tower and a terminal for the running out block (6 m in length).



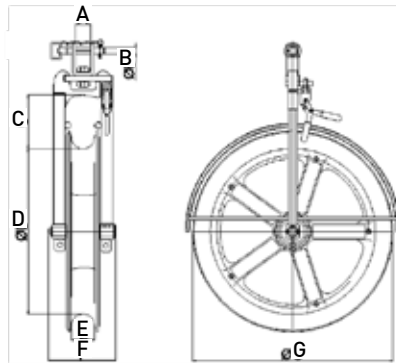
optional swivelling hook (cod.GG)



optional fix hook (cod.FT)



F 144 with opt.327



F 144 with opt.326+328

SPECIFICATIONS

Model No	Dimensions (mm)									UTS (Tonne)	Wt (kg)
	Hook										
	A	A1	A2	B (OD)	C	D (OD)	E	F	G (OD)		
F 150.23	21	25	26	12	80	230	38	135	300	6.5	6.8
F 150.23.1	25	25	26	14	110	230	50	150	300	8.5	8.0
F 150.35	30	27	26	16	110	350	60	170	440	9.0	11.5
F 144.50.70	40	27	27	20	150	500	68	188	630	12.0	25
F 144.65.70	40	33	27	20	160	650	68	188	770	14.0	30
F 144.65.95	40	33	27	20	150	650	95	210	770	14.0	35
F 144.80.70	45	33	27	20	160	800	68	188	900	14.0	35
F 144.80.95	45	33	27	20	150	800	95	210	900	14.0	41
F 144.100.95	45	37	27	25	150	1000	95	230	1120	16.0	50
SPECIALLY DESIGNED FOR OPGW											
F 144.100.60	40	27	27	20	160	1000	60	190	1080	9.0	38

SERIES F 145 AND F 149 MULTIPLE STRINGING ROLLERS

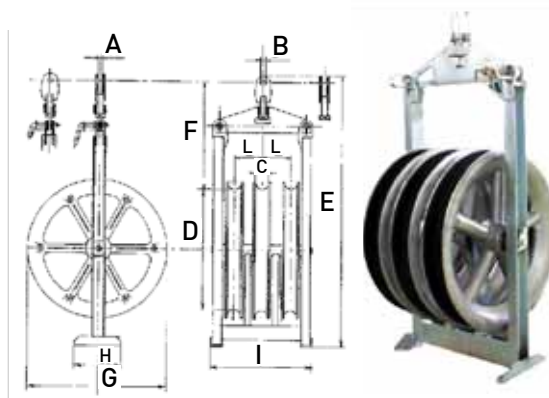


MODEL NO. F 145

Triple sheave running out block suitable for stringing two or three bundled conductors. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with polyurethane. Steel frame with non-fleeting devices on lateral sheaves. Demountable attachment revolving at 90°.

OPTIONAL

- 314 - Sheaves lined with aluminium sectors.
- 323 - Reinforced central sheave lined with nylon and mounted on sealed ball bearings.
- 325 - Central sheave lined with steel sectors.
- 326 - Ground device (opt.314 needed) for aluminium sectors.
- 329 - Copper cable with transparent PVC protection, with a clamp for tower and a terminal for the running out block (6 m in length).



SPECIFICATIONS

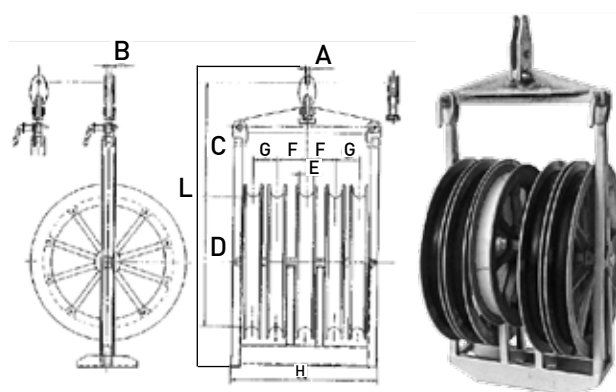
Model No	Dimensions (mm)										UTS (Tonne)	Wt (kg)
	A	B	C	D	E	F	G	H	I	L		
F 145.35.60	20	21	60	350	900	400	440	200	400	100	8.0	40
F 145.50.68	25	25	68	500	1250	550	630	280	500	145	12.0	95
F 145.65.68	25	25	68	650	1400	550	770	280	500	145	14.0	112
F 145.65.95	25	30	95	650	1400	550	770	280	590	170	18.0	125
F 145.80.68	25	25	68	800	1500	550	900	280	500	145	18.0	128
F 145.80.95	25	30	95	800	1550	550	900	300	590	170	20.0	162
F 145.100.95	25	30	95	1000	1750	550	1100	300	590	170	22.0	205

MODEL NO. F 149

Five sheaves running out block suitable for stringing four-bundled conductors. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with polyurethane. Steel frame with non-fleeting devices on lateral sheaves. Demountable attachment revolving at 90°.

OPTIONAL

- 314 - Sheaves lined with aluminium sectors.
- 323 - Reinforced central sheave lined with nylon sectors and mounted on sealed ball bearings.
- 325 - Central sheave lined with steel sectors.
- 326 - Ground device (opt.314 needed) for aluminium sectors
- 329 - Copper cable with transparent PVC protection, with a clamp for tower and a terminal for the running out block (6 m in length).



SPECIFICATIONS

Model No	Dimensions (mm)									UTS (Tonne)	Wt (kg)
	A	B	C	D	E	F	G	H	L		
F 149.50.68	25	25	520	500	68	145	100	700	1250	12.0	128
F 149.65.68	25	25	590	650	68	145	100	700	1400	14.0	158
F 149.65.95	25	30	590	650	95	170	130	820	1400	18.0	185
F 149.80.68	25	25	590	800	68	145	100	700	1560	18.0	180
F 149.80.95	25	30	590	800	95	170	130	820	1560	20.0	220
F 149.100.95	30	30	590	1000	95	170	130	820	1800	22.0	275

HELICOPTER STRINGING ROLLERS

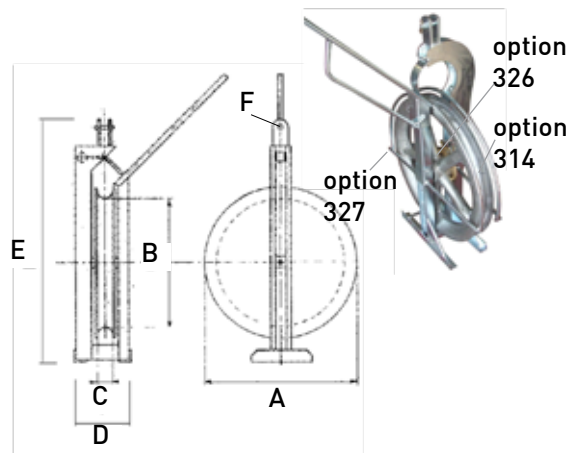
SERIES F 144...E & F 150...E SINGLE AND MULTIPLE HELICOPTER ROLLERS



Single sheave block suitable for stringing a pilot rope by helicopter. Devices mounted on waterproof bearings for self-positioning of rope in the sheave groove. Also suitable for stringing bundle of conductors. The sheave is made with cast aluminium alloy, and it is mounted on waterproof bearings. Groove lined with interchangeable nylon sectors. Galvanised steel frame. Fixed attachment with rotation of 90°.

OPTIONAL

- 314 - Bottom groove lined in aluminium.
- 326 - Grounding device (opt.314 needed) for aluminium sectors.
- 327 - Non-fleeting device for aluminium sectors.
- 329 - Copper cable with transparent PVC protection, with a clamp for tower and a terminal for the running out block (6 m in length).



Model No	Dimensions (mm)						UTS (Tonne)	Wt (kg)
	A	B	C	D	E	F (hole OD)		
F 150.23.50.E	300	230	50	220	550	25	8.0	15
F 150.35.60.E	440	350	60	240	680	25	9.0	22
F 144.50.70.E	630	500	68	340	980	25	12.0	49
F 144.65.70.E	770	650	68	340	1220	25	12.0	52
F 144.65.95.E	770	650	95	370	1220	25	12.0	61
F 144.80.70.E	900	800	68	340	1320	25	12.0	64
F 144.80.100.E	900	800	100	380	1320	25	12.0	68
F 144.100.100.E	1120	1000	100	380	1560	25	20.0	85

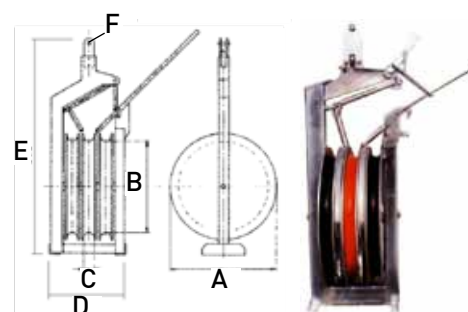
MODEL NO. F 145...E

Triple block suitable for stringing, by helicopter, 2 or 3 bundle conductors. Devices mounted on waterproof bearings for self-positioning of the rope in the sheave groove.

The sheave is made with cast aluminium alloy, and it is mounted on waterproof bearings. Groove lined with interchangeable nylon sectors. Galvanised steel frame. Fixed attachment with rotation of 90°.

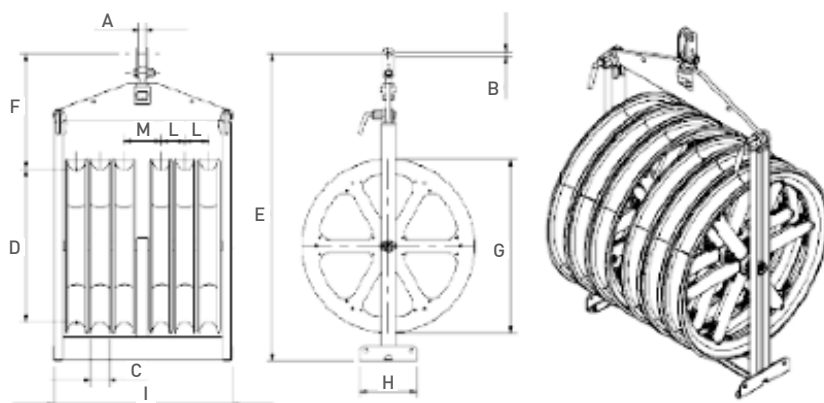
OPTIONAL

- 314 - Bottom groove lined in aluminium.
- 326 - Grounding device (opt.314 needed) for aluminium sectors.
- 329 - Copper cable with transparent PVC protection, with a clamp for tower and a terminal for the running out block (6 m in length).



SPECIFICATIONS

Model No	Dimensions (mm)						UTS (Tonne)	Wt (kg)
	A	B	C	D	E	F (hole OD)		
F 145.50.70.E	630	500	68	670	1080	25	18.0	120
F 145.65.70.E	770	650	68	670	1320	25	18.0	160
F 145.65.95.E	770	650	95	780	1320	25	18.0	170
F 145.80.70.E	900	800	68	670	1420	25	18.0	175
F 145.80.95.E	900	800	95	800	1420	25	18.0	196
F 145.100.95.E	1120	1000	95	800	1640	25	20.0	250



SERIES F 188 MULTIPLE HELICOPTER STRINGING ROLLER

Six sheave running out block suitable for six bundled conductors, using 2 pilot ropes. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with nylon. Steel frame with non-fleeting devices on lateral sheaves. Demountable attachment revolving at 90°.

OPTIONAL

314 - Sheaves lined with aluminium sectors.

325 - Central sheave lined with steel sectors.

326 - Ground device (opt.314 needed) for aluminium sectors.

329 - Copper cable with transparent PVC protection, with a clamp for tower and a terminal for the running out block (6 m in length).

SPECIFICATIONS

Model No	Dimensions (mm)											UTS (Tonne)	Wt (kg)
	A	B	C	D	E	F	G	H	I	L	M		
F 188.65.68	30	30	68	650	1400	550	770	280	750	100	145	18.0	180
F 188.65.95	30	30	95	650	1400	550	770	280	880	125	170	20.0	207
F 188.80.68	30	30	68	800	1500	550	900	300	750	100	145	18.0	204
F 188.80.95	30	30	95	800	1550	550	900	300	880	125	170	20.0	240

MODEL NO. F 189

Seven sheaves running out block suitable four or six bundled conductors, using 1 or 2 pilot ropes. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with nylon. Steel frame with non-fleeting devices on lateral sheaves. Demountable attachment revolving at 90°.

OPTIONAL

314 - Sheaves lined with aluminium sectors.

325 - Central sheave lined with steel sectors.

326 - Ground device (opt.314 needed) for aluminium sectors.

329 - Copper cable with transparent PVC protection, with a clamp for tower and a terminal for the running out block (6 m in length).

SPECIFICATIONS

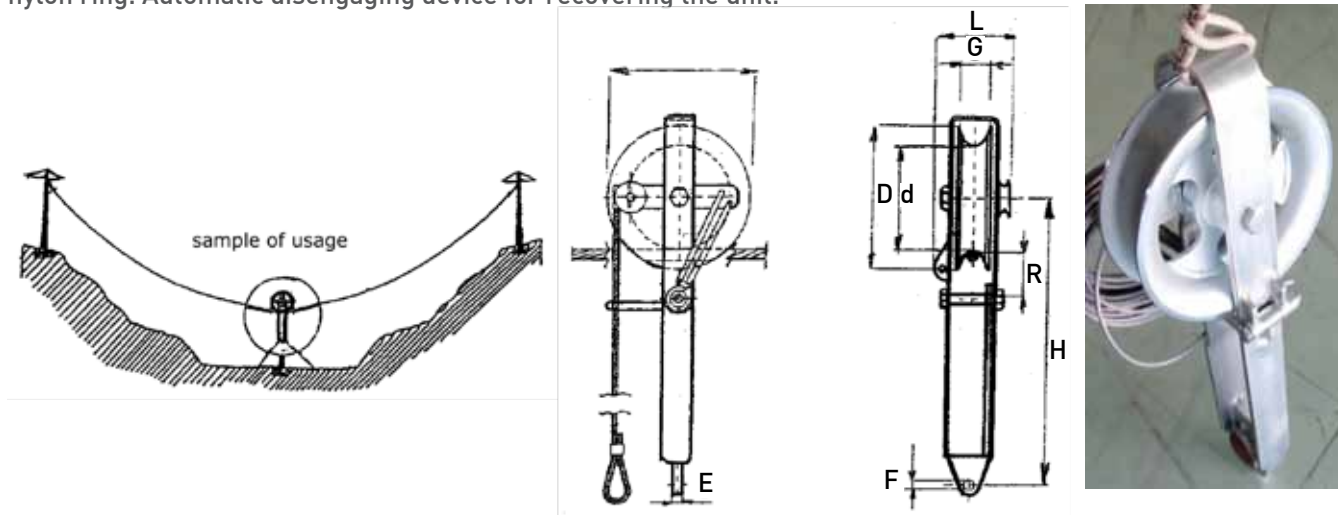
Model No	Dimensions (mm)											UTS (Tonne)	Wt (kg)
	A	B	C	D	E	F	G	H	I	L	M		
F 189.65.68	30	30	68	650	1400	590	100	280	930	100	145	18.0	200
F 189.65.95	30	30	95	650	1400	590	125	280	1100	125	170	20.0	230
F 189.80.68	30	30	68	800	1560	590	100	300	930	100	145	18.0	225
F 189.80.95	30	30	95	800	1560	590	125	300	1100	125	170	20.0	265

SPECIAL ROLLERS & BLOCKS

MODEL NO. F 151.235.AS RUNNING OUT ROLLER



Counter-pull running out block. Galvanised steel frame, opening, with swivelling hooks on the ends. Aluminium or galvanised steel pulley mounted on ball bearings. Bottom groove of the aluminium pulley lined with interchangeable nylon ring. Automatic disengaging device for recovering the unit.



SPECIFICATIONS

Model No	Dimensions (mm)								UTS (Tonne)	Wt (kg)
	d	D	E	F	G	H	L	R		
F 151.235.AS	240	300	25	25	65	600	170	95	8.5	21

MODEL NO. F 308.100.98

Multiple roller pulley designed for stringing conductors up to diameter 60 mm. Made of electro-welded and galvanised steel. Nylon rollers turning on bearings. Flexible fittings.

SPECIFICATIONS

Breaking load: 18.0 tonne

Bending radius: 1.5m

Rollers-groove width: 70mm

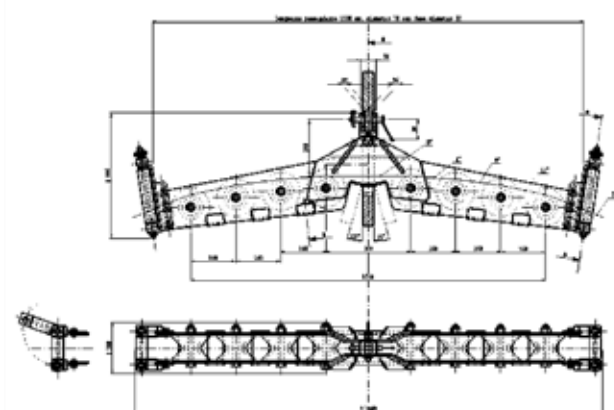
Dimensions: 1,660 x 180 x 450 mm

Weight: 35kg

OPTIONAL

01- Anti-fleeting framework made of nylon rollers, with opening upper roller.

02- Groove width 100 mm.



SERIES F 151 RUNNING OUT BLOCK



Running out block fit for stringing earth wires. Galvanised steel sheave mounted on ball bearings. Galvanised steel frame with non-fleeting device.

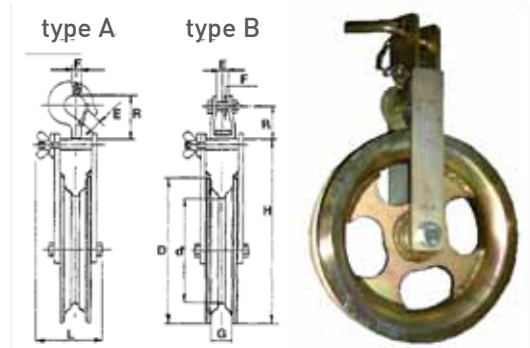
Two different attachments available:

Type A - swivel hook

Type B - swivel fork

Type C - fixed hook

Blocks with different dimensions can be built on demand.



SPECIFICATIONS

Model No	Attachment Type	Dimensions (mm)								UTS (Tonne)	Wt (kg)
		d	D	E	F	G	H	L	R		
F 151.235.A	A	230	300	25	22	66	400	155	100	8.0	13
F 151.235.B	B/C	230	300	35	20	66	400	155	70	8.0	13

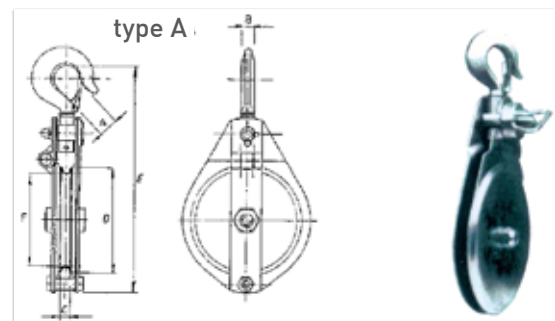
SERIES F 152 SNATCH BLOCKS

Snatch block. Steel sheave mounted on ball bearings. Galvanised steel frame with opening side.

Attachment available:

Type B - fix fork (B)

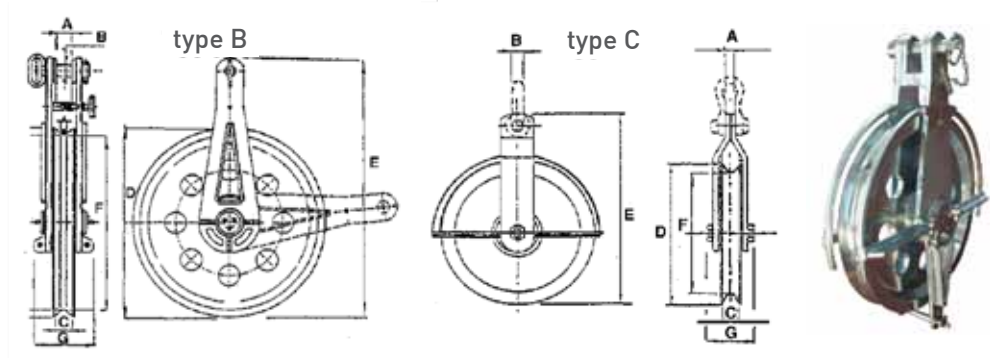
Blocks with different dimensions can be built on demand.



Optional Accessories:

01 - Non-fleeting Device

02 - Swivel Hook Type "A"



SPECIFICATIONS

Model No	Attachment Type	Dimensions (mm)							UTS (Tonne)	WLL (Tonne)	Wt (kg)
		A	B	C	D	E	F	G			
F 152.2	B	25	25	40	290	400	250	110	30.0	10.0	20
F 152.3	B	30	30	50	350	500	300	160	45.0	15.0	40
F 152.4	B	45	35	60	450	600	400	180	60.0	20.0	55
F 152.5	B	50	50	60	600	800	550	190	90.0	30.0	75
F 152.6	B	60	60	80	720	950	650	250	200.0	50.0	120

SNATCH BLOCKS

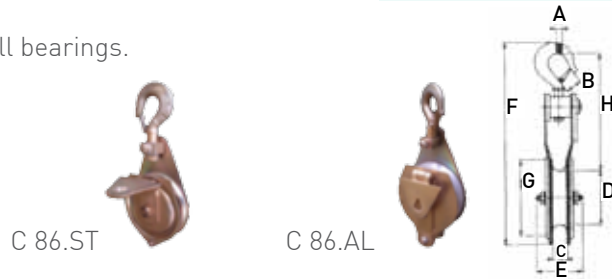
MODEL NO. C 86 SNATCH BLOCKS



Side opening snatch block. Sheave mounted on ball bearings.

C 86.ST sheave and frame made of plated steel

C 86.AL sheave and frame made of Aluminium



SPECIFICATIONS

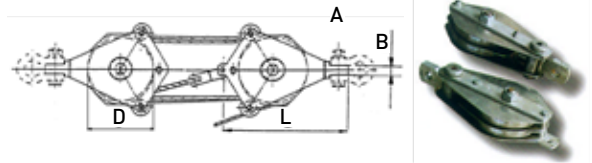
Model No	WLL * (Tonne)	Construction	Dimensions (mm)								Wt (kg)
			A	B	C	D	E	F	G	H	
C 86.ST.20	90	Steel	23	28	15	108	75	400	138	210	5.0
C 86.ST.40	180	Steel	30	34	16	138	80	440	170	235	9.2
C 86.ST.50	250	Steel	39	43	30	185	95	500	215	285	12.0
C 86.AL.6	30	Aluminium	16	16	22	100	72	300	140	160	1.6
C 86.AL.12	60	Aluminium	18	25	25	140	75	320	180	180	2.8

* Safety factor 4:1

MODEL NO. C 87 SNATCH BLOCKS

Snatch block for wire ropes. Galvanised steel frame with 2, 3 or 5 steel sheaves dia 160 and 180mm mounted on waterproofed ball bearings. Snatch blocks are supplied in pairs.

On demand Shackle, swivel joint and wire rope (length and diameter of the rope to be specified)



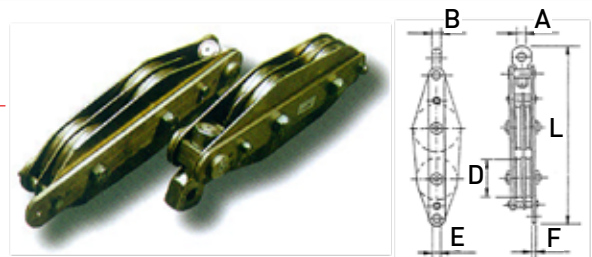
SPECIFICATIONS

Model No	No of Sheaves	Dimensions (mm)					WLL * (Tonne)	Wt per Pair (kg)
		D	Wire Ø	L Max	A	B		
C 87.2.025	2	160	8	380	22	22	2.5	20
C 87.3.035	3	160	8	450	25	22	3.5	27
C 87.5.055	5	160	8	500	29	22	5.5	45
C 87.2.030	2	180	9	370	22	22	3.0	25
C 87.3.045	3	180	9	430	25	22	4.5	30
C 87.5.070	5	180	9	470	29	22	7.0	45

* safety factor 5:1

MODEL NO. C 88

Tackle block for high voltage lines. Steel frame with 4 or 6 steel sheaves mounted on waterproofed ball bearings. Supplied in pairs.



Model No	No of Sheaves	Dimensions (mm)							WLL (Tonne)	Wt per Pair (kg)
		D Min	Wire Ø	L Max	A	B	E min	F max		
C 88.4.025	4	120	6	500	23	23	11	11	2.5	25
C 88.4.045	4	160	8	650	25	23	11	11	4.5	45
C 88.6.065	6	160	8	680	27	35	11	11	6.5	70
C 88.6.095	6	200	10	800	36	45	12	13	9.5	100
C 88.6.120	6	240	12	940	38	48	14	14	12.0	130

Safety factor 5:1. (Aluminium sheaves available upon request) (Load capacity lower with this option)

MODEL NO. F 405.10 TRACTION ROBOT

Traction robot constructed of light alloy, with 4 nylon wheels.

Driven by two electric motors operating two nylon wheels.

An unlocking device allows recovery of the robot when it stops moving. Forward/backward movements are radio-controlled. The robot can operate on all kinds of ropes/cables. The swinging lower wheels allows it to ride over small obstacles, like compression sleeves.

SPECIFICATIONS

SPEED & PULL

Max pull 1 kN
Max slope of cable 30°
Max traction speed 20 metres/min
Min traction speed 12 metres/min

CHARACTERISTICS

Wheel external diameter 100 mm
Wheel internal diameter 60 mm
Wheel groove width 50 mm
Dimensions (AxBxC) 0,90 x 0,60 x 0,80 m
Weight 32kg

RADIOCONTROL

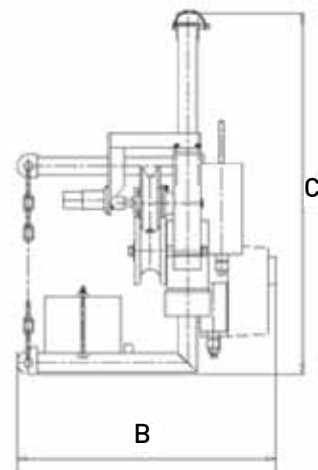
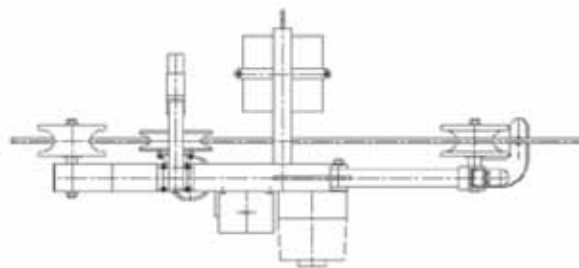
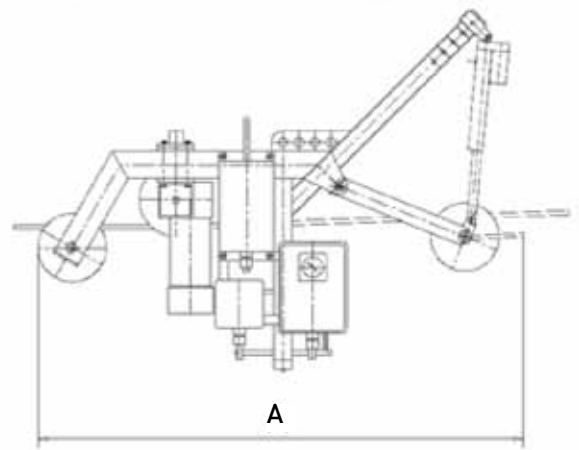
Transmitter unit, max distance 30 m, with a selector and stop and forward/backward push-buttons.
Complete with receiver unit, battery-charger and 2 rechargeable batteries.

MOTOR - ROBOT

Feeding electric
Power 0,15 kW
Electric 12 V DC

NOTE – Petrol Powered Unit Available Upon Request

The power to the traction wheels is supplied by a small efficient petrol powered generator.



CABLE TRAILER



SDTH-1000 CABLE TRAILERS (AUSTRALIAN MADE)

Australian made galvanised frame cable trailers with mechanical brakes supplied as standard. Trailers come with a VIN number ready for the road but customer will need to organise on road costs. All models come with axle, cones and collars and SDTH-1000 comes with self-loading mechanism.

Contact for more information on accessories such as Electric Power Packs and/or Honda motors or special customised designs.

Model No	Maximum Lift (kg)	# of Drums	Max Drum Diam (mm)	Max Drum Width (mm)
SDT-500	500	1	1200	1200
SDTH-1000	1000	1	1500	1300
SDT-1500	1500	1	1500	1300
SDT-2500	2500	1	1500	1500



SDTH-1000 pictured



For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

OVERHEAD STRINGING MACHINERY



Suitable for overhead stringing applications in utility (Transmission and distribution lines, etc) and associated industry such as telecommunications and railway. More machines available upon request. Some features and performances of machines are able to be modified on request.

Performances of machines listed are without optional devices, at sea level at a temperature of 20°C. Dimensions and weights are also without optional devices. Information may change without notice due to continual research, development and improvement. Images and drawings are indicative only.



MACHINE FEATURES

Inclusive Reel Winder	Direct Force Readings	Precise Measurement
Option of having the reel winder included as part of the machine which eliminates the need for additional equipment hoses and transportation	Force readings do not rely on unreliable sources such as hydraulic circuit pressure	Specialised equipment for accurate speed and distance measurement

OMAC Model No.	Type	Capstan OD (mm)	Max Rope (mm)	Power (kW)	Page Ref #	Capacity (kN)
F 280.35	PULLER	325	13-16	30.8	F61	40
F 200.AF.40	PULL/TENSIONER	1200	16	46.0	F62	45
F 200.AF.60.2	PULL/TENSIONER	1200	16	65.0	F63	70
F 120.AF.45.2	PULL/TENSIONER	1500	16	62.0	F64	45
F 200.AF.90.2	PULL/TENSIONER	1200	18	86.0	F65	1x90/2x45
F 120.AF.90.2	PULL/TENSIONER	1500	22	86.0	F66	1x90/2x45
F 120.AF.150.42	PULL/TENSIONER	1500	4X32	175.0	F67	150/2x75
F 105.160	PULLER	650	28	215.0	F68	160
F 120.140.42	TENSIONER	1500	40	64.0	F69	150/2x75

OMAC HISTORY

Established in 1954 by Mr. Luigi Consonni OMAC now consists of two companies;

OMAC s.n.c. designs, produces and commercialises a huge range of machines and equipment suitable for overhead stringing and underground pulling or stringing conductors, wires, cables for electrical utilities, telecommunications and railways.

The specialisation of OMAC products includes the stringing of overhead transmission lines as well as the laying of underground conductors, high and low tension, copper and aluminium conductor, as well as the optical fiber (OPGW).

OMAC's experience and flexibility of production allows them to customise machines for special purposes, designed on the specific needs and requirements of the customer.

The large number of OMAC machines working today in many countries worldwide is a testament to their reliability and quality.





Over 40 years of experience in manufacture!

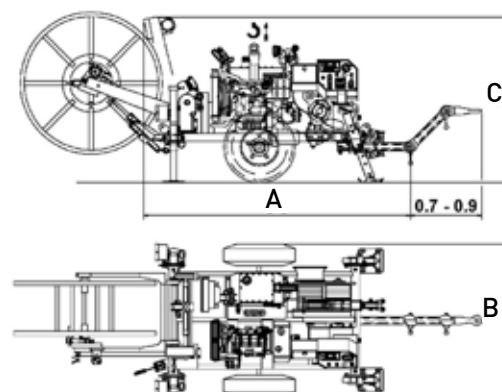
MORE MACHINES AVAILABLE UPON REQUEST
For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

STRINGING MACHINE – PULLER 40KN

MODEL NO. F 280.35 PULLER



			
Max Rope Diameter (mm OD)	Capstan Diameter (mm)	Engine Power (kW)	Max Continuous Pull Force (kN)
13/16	325	30.8	40



Model No. F 280.35

A x B x C = 2.15 x 1.60 x 1.55m
Weight (without rope) = 1200kg

Hydraulic puller suitable for pulling one overhead* transmission cable and fibre optic wire. One hydraulic circuit allows variable continuous speed in both directions by operating one control.

FEATURES

- One pair of multi-grooved steel capstans fit for stringing one steel rope.
- Machine control panel with control instruments.
- Dynamometer with preselector of max pull force
- Mechanical metre counter.
- Safety negative hydraulic brake.
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed on work site.
- Hand-operated mechanical stabilisers
- Attachments for anchorage and for lifting.
- Hydraulic-operated reel winder fit for a 1400mm OD reel, with automatic rope winder.
- Oil cooling system.

OPTIONAL DEVICES

- 007 Chassis with amortised axle, overrun brake and drawbar for towing on road (homologation excluded).
- 026 PVC cloth cover.
- 027 Metal cover with doors.
- 028.1 Water cooled diesel engine.
- 037 Removable control lever with 10m of cable.
- 038 Radio-control.
- 051.2 Machine autonomous movement for shifting the machine at yard, with lever change of direction and hydraulic drive.
- 067 Telescopic rod to lay underground cables (Model No. F 277). Model No. 083.2 must also be ordered.
- 069.2 Electronic instrument with USB port and printer, that permits to store and print the data of the pull. It requires Model No. 069.3 arrangement.
- 069.3 Arrangement for electronic device Model No. 069.2.
- 083.2 Rope driving pulley predisposed for matching a telescopic rod (to lay underground cables).

TECHNICAL



CAPSTANS & ROPE

Capstans	2 x 325mm OD
Capstan Grooves	7 + 7
Max rope diameter	13/16 mm
Max Joint diameter	40/45 mm

ENGINE

Diesel	
Power	30.8 kW
Cooling	Air
Electric System	12VDC

PULL PERFORMANCES

Max-pull	40kN
Speed at max pull	1.2km/h
Max speed	4.0km/h
Pull at max speed	13kN






*Suitable for Underground cable pulling with optional Model No. 083.2

For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

STRINGING MACHINE – PULLER/TENSIONER 45KN

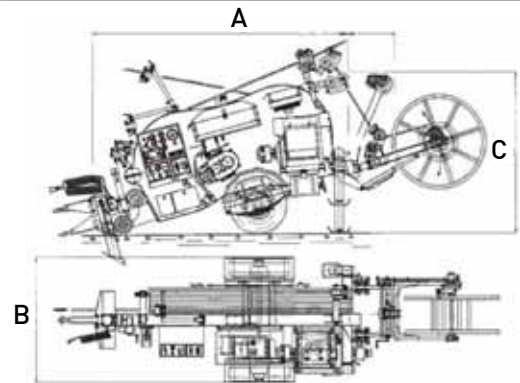
MODEL NO. F 200.AF.40 PULLER - TENSIONER



				
Capstan Diameter (mm)	Max Conductor OD (mm)	Max Rope Diameter (mm OD)	Engine Power (kW)	Max Continuous Pull Force (kN)
1200	34	16	46	45



Model No. F 200.AF.40



A x B x C = 3.20 x 1.90 x 2.20m
Weight = 2350kg

Hydraulic machine designed to operate either as a tensioner and a puller, suitable for stringing one conductor. One hydraulic circuit allows constant force tension at varying speeds of stringing. In puller use, one close hydraulic circuit allows variable continuous speed in both directions. The machine has a system that allows it to maintain the pull force, programmed by automatically adapting the speed in compliance with the load (even when not rotating).

FEATURES

- One pair of steel capstans lined with multi-grooved nylon sectors.
- Device to control low-force tensions (1-15kN), fit for OPGW cables, with idle position.
- Machine control panel equipped with electronic device operating as dynamometer, preselector of max pull force, metre counter and speedometer.
- Safety negative hydraulic brake.
- Front oscillating conductor-driver with nylon rollers.
- Rigid axle, tyres, hand brake and drawbar for towing at low speed on worksite.
- Stabilisers, share and attachments for anchoring the machine.
- Oil cooling system.
- Auxiliary hydraulic circuit for additional equipment (One reel stand or reel winder).

OPTIONAL DEVICES

- 008 Axle suspension, air braking system, drawbar and lights for towing on road (Registration excluded).
- 012 Installation of one hydraulic circuit to feed a press for high pressure joints (Max. 700bar).
- 014 Reel winder arm fit for a 1400mm diameter reel.
- 037.4 Remote control with 10m of cable.
- 038 Digital dynamometer with programmer of maximum wanted pulling force value, mounted on the radio-control (Model No. 038).
- 045.2 Automatic clamp for locking the wire.
- 045.3 Manual clamp for locking the wire.
- 069.2 Electronic device for recording the pull force, with USB port and printer.
- 119 Capstans with treated-steel grooves.

TECHNICAL



CAPSTANS & ROPE/CONDUCTOR

Capstans	2 x Ø 1200 mm
Max conductor diameter	34mm
Max rope diameter	16mm
Max joint diameter	50mm

ENGINE

Diesel	
Power	46kW
Cooling System	Water
Electric System	12VDC

PULL PERFORMANCES

Max pull	45kN
Speed at max pull	2.5km/h
Max speed	4.5km/h
Pull at max speed	20kN

TENSION PERFORMANCES






Max tension	45kN
Max speed	5km/h

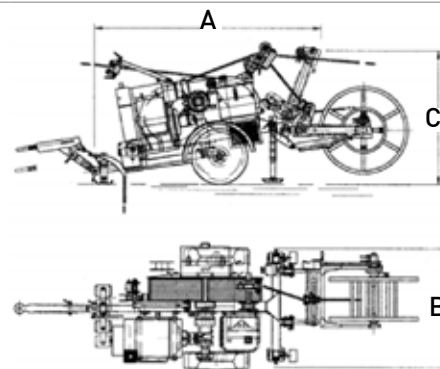
For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

STRINGING MACHINE – PULLER/TENSIONER 70KN

MODEL NO. F 200.AF.60.2 PULLER - TENSIONER



				
Capstan Diameter (mm)	Max Conductor OD (mm)	Max Rope Diameter (mm OD)	Engine Power (kW)	Max Continuous Pull Force (kN)
1200	2x34	18	65	70



Model No. F 200.AF.60.2
(Also shown with optional 014 bottom right)

A x B x C = 3.25 x 2.10 x 2.30m
Wt = 3500 kg

Hydraulic machine designed to operate either as a tensioner and a puller, suitable for stringing one or two conductors. One hydraulic circuit allows constant tension at variable speeds of stringing. In puller use, one closed hydraulic circuit allows variable continuous speed in both directions. The machine has a system that allows maintenance of the pull force, programmed by automatically adapting the speed in conjunction with the load (even when not rotating).

FEATURES

- One pair of steel capstans lined with multi-grooved nylon sectors.
- Machine control panel equipped with dynamometer, preselector of max pull force and metre counter.
- Safety negative hydraulic brake.
- Two front oscillating conductor-drivers with nylon rollers.
- Two back fix conductor-drivers with nylon rollers.
- Rigid axle, tyres, hand brake and drawbar for towing at low speed in workplace.
- Stabilisers, share and attachments for anchoring the machine.
- Oil cooling system.
- Two auxiliary hydraulic circuits for additional equipment (2 reel-winders or reel-stands).

OPTIONAL DEVICES

- 008 Axle suspension, air braking system, drawbar and lights for towing on road (Registration excluded).
- 012 Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).
- 014 Reel-winder arm suitable for 1400mm OD reel.
- 017 Device to control low-force tensions (2-30kN), especially for optical fibre cable.
- 037.4 Remote control with 10m of cable.
- 038 Electronic radio-control with lever for stretching and releasing the rope.
- 045.2 Automatic clamp for locking the wire (for 2 wires).
- 045.3 Manual clamp for locking the wire (for 2 wires).
- 069.3 Prearrangement for electronic device RES.
- 069.2 Electronic device RES.
- 119 Capstans with treated-steel grooves.

TECHNICAL



CAPSTAN & ROPE/CONDUCTOR

Capstans	2x1200mmOD
Max cond. diameter	2x34mm
Max rope diameter	18mm
Max joint diameter	45mm

ENGINE

Diesel	
Power	65kW
Cooling System	Water
Electric System	12VDC

PULL PERFORMANCES

Max pull	70kN
Speed at max pull	2km/h
Max	5.0km/h
Pull at max speed	25kN

TENSION PERFORMANCES






Max tension	70kN
Max speed	5km/h

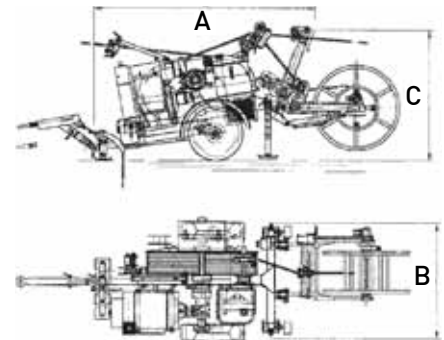
For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

STRINGING MACHINE – PULLER/TENSIONER 45kN

MODEL NO. F 120.AF.45.2 PULLER TENSIONER



				
Capstan Diameter (mm)	Max Conductor OD (mm)	Max Rope Diameter (mm OD)	Engine Power (kW)	Max Continuous Pull Force (kN)
1500	2x36	16	62	45



Model No. F 120.AF.45.2 Shown with optional accessories

A x B x C = 3.90 x 2.10 x 2.40m
Weight = 3300kg

Hydraulic machine designed to operate either as a tensioner and a puller, suitable for stringing one conductor. One hydraulic circuit allows constant force tension at varying speeds of stringing. In puller use, one close hydraulic circuit allows variable continuous speed in both directions. The machine has a system that allows it to maintain the pull force, programmed by automatically adapting the speed in compliance with the load (even when not rotating).

FEATURES

- One pair of steel capstans lined with multi-grooved nylon sectors.
- Machine control panel equipped with electronic device operating as dynamometer, preselector of max pull force, metre counter and speedometer.
- Connection-plug for RES.
- Two auxiliary hydraulic circuits for additional equipment (1 or 2 reel-winders or reel-stands).
- Device to control low-force tensions (2-20kN), fit for OPGW.
- Safety negative hydraulic brake.
- Two front oscillating conductor-drivers with nylon rollers.
- Two back fix conductor-drivers with nylon rollers.
- Rigid axle, tyres, hand brake and drawbar for towing at low speed on worksite.
- Stabilisers, share and attachments for anchoring the machine.
- Oil cooling system.

OPTIONAL DEVICES

- 008 Axle suspension, air braking system, drawbar and lights for towing on road [registration excluded].
- 012 Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).
- 014 Reel-winder arm fit for a 1400mm OD reel.
- 028 Silenced diesel engine.
- 037.4 Remote control with cable.
- 038 Radio-control for puller use (Max distance 50m).
- 045.2 Automatic clamp for locking the wire (for 2 wires).
- 045.3 Manual clamp for locking the wire (for 2 wires).
- 069.2 Electronic device RES.
- 119 Capstans with treated-steel grooves.

TECHNICAL



CAPSTANS & ROPE/CONDUCTOR

Capstans	2 x 1500 mm
Nylon Grooves	10 + 10
Max cond. diameter	36mm
Max rope diameter	16mm
Max joint diameter	50mm

ENGINE

Diesel	
Power	62kW
Cooling System	Water
Electric system	12VDC

PULL PERFORMANCES

Max-pull	45kN
Speed at max pull	2.5km/h
Max	5.0km/h
Pull at max speed	24kN

TENSION PERFORMANCES






Max tension	45kN
Max speed	5km/h

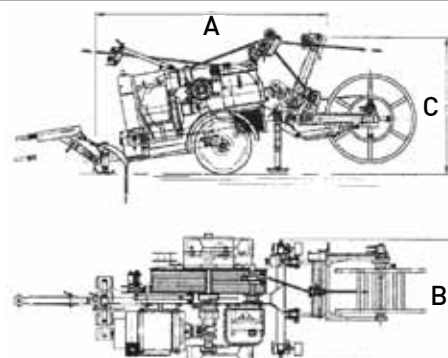
For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

STRINGING MACHINE – PULLER/TENSIONER 90kN

MODEL NO. F 200.AF.90.2 PULLER - TENSIONER



				
Capstan Diameter (mm)	Max Conductor OD (mm)	Max Rope Diameter (mm OD)	Engine Power (kW)	Max Continuous Pull Force (kN)
1200	2x34	18	86	90



Model No. F 200.AF.90.2 Shown with optional accessories

A x B x C = 3.25 x 2.10 x 2.30m
Weight = 4500kg (Standard version)

Hydraulic machine designed to operate either as a tensioner and a puller, suitable for stringing one conductor. One hydraulic circuit allows constant force tension at varying speeds of stringing. In puller use, one close hydraulic circuit allows variable continuous speed in both directions. The machine has a system that allows it to maintain the pull force, programmed by automatically adapting the speed in compliance with the load (even when not rotating).

FEATURES

- One pair of steel capstans lined with multi-grooved nylon sectors (Optional: steel-grooves, see Model No. 119).
- Machine control panel equipped with electronic device operating as dynamometer, preselector of max pull force, metre counter and speedometer.
- Connection-plug for RES.
- Safety negative hydraulic brake.
- Two front oscillating conductor-drivers with nylon rollers.
- Two back fix conductor-drivers with nylon rollers.
- Rigid axle, tyres, hand brake and drawbar for towing at low speed on worksite.
- Stabilisers, share and attachments for anchoring the machine.
- Oil cooling system.
- Two auxiliary hydraulic circuits for additional equipment (Reel winders or reel stands).

OPTIONAL DEVICES

- 001.1 Freewheeling disconnection (neutral) of capstans.
- 008 Axle suspension, air braking system, drawbar and lights for towing on road (homologation excluded).
- 014 Reel-winder arm fit for a 1400mm OD reel.
- 017 Device to control low-force tensions (3-25kN), fit for fibre optics.
- 028 Silenced diesel engine.
- 037.4 Remote control with 15m of cable.
- 038 Electronic radio control (Max distance 50m).
- 045.2 Automatic clamp for locking the wire (for 2 wires).
- 045.3 Manual clamp for locking the wire (for 2 wires).
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull.
- 119 Capstans with steel grooves chemically treated.

TECHNICAL



CAPSTANS & ROPE/CONDUCTOR

Capstans	2 x 1200mm OD
No. of grooves	10 + 10
Max cond. diameter	2 x 34mm
Max rope diameter	18mm
Max joint diameter	40mm

ENGINE

Diesel	
Power	86kW
Cooling System	Water
Electric System	12VDC

PULL PERFORMANCES

Max-pull	90kN
Continuous pull	
80kN @ 2.0km/h	
70 kN @ 2,2 km/h	
45 kN @ 3,5 km/h	
Max	5.0 km/h
Pull at max speed	30kN

TENSION PERFORMANCES






Max tension	90kN
Continuous pull	80kN
Max speed	5km/h

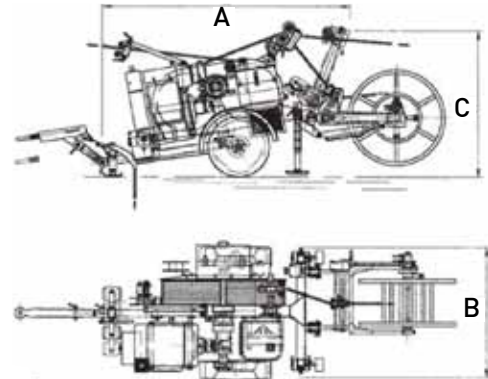
For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

STRINGING MACHINE – PULLER/TENSIONER 90kN

MODEL NO. F 120.AF.90.2 PULLER – TENSIONER



				
Capstan Diameter (mm)	Max Conductor OD (mm)	Max Rope Diameter (mm OD)	Engine Power (kW)	Max Continuous Pull Force (kN)
1500	2x40	22	86	90



Model No. F 120.AF.90.2

A x B x C = 3.80 x 2.10 x 2.40m
Weight = 4600kg

Hydraulic machine designed to operate either as a tensioner and a puller, suitable for stringing one conductor. One hydraulic circuit allows constant force tension at varying speeds of stringing. In puller use, one close hydraulic circuit allows variable continuous speed in both directions. The machine has a system that allows it to maintain the pull force, programmed by automatically adapting the speed in compliance with the load (even when not rotating).

FEATURES

- One pair of steel capstans lined with multi-grooved nylon sectors (optional: steel-grooves, see Model No. 119).
- Machine control panel equipped with electronic device operating as dynamometer, preselector of max pull force, metre counter and speedometer.
- Connection-plug for RES.
- Safety negative hydraulic brake.
- Two front oscillating conductor-drivers with nylon rollers.
- Two back fix conductor-drivers with nylon rollers.
- Rigid axle, tyres, hand brake and drawbar for towing at low speed on worksite.
- Stabilisers, share and attachments for anchoring the machine.
- Oil cooling system.
- Two auxiliary hydraulic circuits for additional equipment (reel winders or reel-stands).

OPTIONAL DEVICES

- 001.1 Freewheeling disconnection (neutral) of capstans.
- 008 Axle suspension, air braking system, drawbar and lights for towing on road (Registration excluded).
- 014 Reel-winder arm fit for a 1400mm OD reel.
- 017 Device to control low-force tensions (3-25kN), fit for fibre optics.
- 020 Nylon sectors for capstans, with grooves fit for conductor 46mm OD.
- 028 Silenced diesel engine.
- 037.4 Remote control with 15 m of cable.
- 038 Electronic radio control (max distance 50m).
- 045.2 Automatic clamp for locking the wire (for 2 wires).
- 045.3 Manual clamp for locking the wire (for 2 wires).
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull.
- 119 Capstans with steel grooves chemically treated.

TECHNICAL



CAPSTANS & ROPE/CONDUCTOR

Capstans	2 x 1500mm OD
No. of grooves	10 + 10
Max cond. diameter	2 x 40mm
Max rope diameter	22mm
Max joint diameter	40mm

ENGINE

Diesel	
Power	86 kW
Cooling System	Water
Electric System	12VDC

PULL PERFORMANCES

Max-pull	90kN
Speed at max pull	2.0km/h
Max	5.0km/h
Pull at max speed	30kN

TENSION PERFORMANCES





Max tension	90kN
Max speed	5km/h

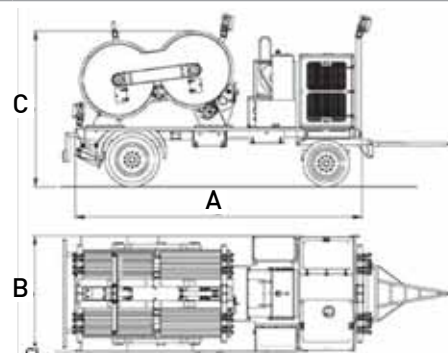
For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

STRINGING MACHINE – PULLER/TENSIONER 150kN

MODEL NO. F 120.AF.150.42 PULLER - TENSIONER



			
Capstan Diameter (mm)	Max Conductor OD (mm)	Engine Power (kW)	Max Continuous Pull Force (kN)
1500	4x45	175	150



Model No. F 120.AF.150.42

A x B x C = 6.00 x 2.47 x 3.15m
Weight = 12,500 kg

Hydraulic tensioner suitable for stringing one, two, three or four conductors. Two hydraulic circuits allow constant force tension even at variable stringing speeds. The two circuits can be used independently or simultaneously, with automatic partition of the forces. The machine is equipped with an engine for pull-back operations. In pulling-back mode, one hydraulic circuit allows variable continuous speed in both directions, allowing use one of the hydraulic circuits or both coupled.

FEATURES

- Two pairs of steel capstans lined with multi-grooved nylon sectors.
- Machine control panel equipped with 2 dynamometers with pre-setting of max-pull force, metre counter and speedometer.
- Two safety negative hydraulic brakes.
- Front and back conductor-drivers with nylon rollers.
- Two back fix conductor-drivers with nylon rollers.
- Frame with two axles, steering-one with drawbar, leaf spring suspensions and tires, fits for towing on the road at 60 km/h (homologation excluded).
- Hydraulic back stabilisers and hydraulic share on front side.
- Oil cooling system.
- Mechanism to synchronise the motion of the capstans in tensioner use.
- Four auxiliary hydraulic circuits for additional equipment (i.e. motorised reel-stands).

OPTIONAL DEVICES

- 005.1 Chassis with tandem axle, drawbar, suspension, air braking system, tires and lights for towing on the road (Registration excluded).
- 006 Lights and braking system of the chassis.
- 006.3 Braking system with ABS.
- 009 Spare tyre.
- 012 Predisposition of one hydraulic circuit to feed a press for high pressure joints (Max. 700bar).
- 014 Installation on the machine of 1 or 2 hydraulic commanded reel winders.
- 020 Set of interchangeable nylon sectors for capstans, with grooves suitable for 2 conductors with diameter greater than 50mm.
- 037.4 Cable remote control (15m).
- 038 Radio control.
- 045.2 Automatic clamp for locking the wire (for 4 wires).
- 119 Capstans with treated steel grooves for pulling steel wires.

TECHNICAL



CAPSTANS & ROPE/CONDUCTOR

Capstans	4x1500mm OD
Grooves per capstan	10(40)
Max conductor diameter	4x45mm
Max wire rope diameter	4x32mm

TENSION PERFORMANCES

Max tension	1x150kN or 2x75kN
Max tension per cond.	37.5kN
Max speed	5km/h

ENGINE

Diesel	
Power	175 kW
Cooling System	Water
Electric System	24VDC

PULL PERFORMANCES





Max-pull	1x150kN or 2x75kN
Speed @ max pull	2km/h
Max speed	5km/h
Pull @ max speed	1x55kN or 2x27.5kN

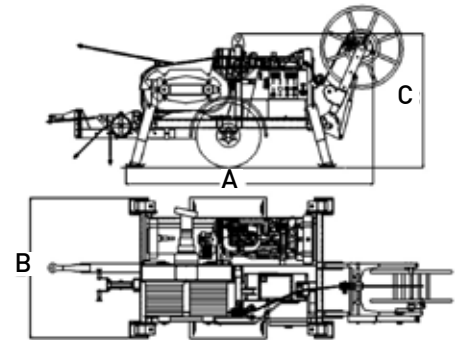
For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

STRINGING MACHINE – PULLER 160kN

MODEL NO. F 105.160 PULLER



			
Capstan Diameter (mm)	Max Rope Diameter (mm OD)	Engine Power (kW)	Max Continuous Pull Force (kN)
650	28	215	160



Model No. F 105.160

A x B x C = 4.20 x 2.40 x 2.20m
Weight (without rope) = 6200kg

Hydraulic puller suitable for pulling one overhead conductor. One hydraulic circuit allows variable continuous speed in both directions by operating one control. A device for pull programming brings the fixed value, adjusting automatically the velocity according to the loads on the line (even when not rotating).

FEATURES

- One pair of multi-grooved steel capstans suitable for stringing one steel rope.
- Machine control panel.
- Electronic instrument that operates as dynamometer, preselector of max pull force, metre counter and speedometer.
- Safety negative hydraulic brake.
- Chassis with rigid axle, overrun brake and drawbar for towing at low speed at worksite.
- Hydraulic back and front stabilisers.
- Attachments for anchorage.
- Reel winder suitable for 1800mm OD reel, with automatic rope winder.
- Oil cooling system.

OPTIONAL DEVICES

- 005.1 Tandem axle with torsion bar suspensions, air braking system and lights.
- 006 Lights and pneumatic brake system for towing on the road (Registration excluded).
- 008 Axle with leaf spring suspension, drawbar, pneumatic braking system, tires and lights for towing on the road (without registration).
- 026 PVC cloth cover.
- 028.7 Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
- 037 Remote control with 15 m of cable.
- 038 Electronic radio control (50m max).
- 045.2 Automatic clamp for rope.
- 069.2 Electronic device with USB port and printer, to save and print the data of the pull.
- 084 Bigger reel winder fit for a 2250mm OD reel.
- 115 Arrangement for pulling 2 ropes simultaneously, with supplementary hydraulic circuit for controlling the second reel winder.
- 174.1 Synchroniser device for matching 2 machines to pull 2 ropes simultaneously, complete with cable-control (20m) for controlling the 2 machines.



TECHNICAL



CAPSTANS & ROPE/CONDUCTOR

Capstans	2x650mm OD
Capstan Grooves	10+10
Max rope diameter	28mm
Max joint diameter	80mm

ENGINE

Diesel	
Power	215kW
Cooling System	Water
Electric System	24V

PULL PERFORMANCES

Max-pull	160kN
Speed @ max-pull	2.5km/h
Max speed	5km/h
Pull @ max speed	80kN

REEL-WINDER





Type	Arm
Max reel diameter	1800mm

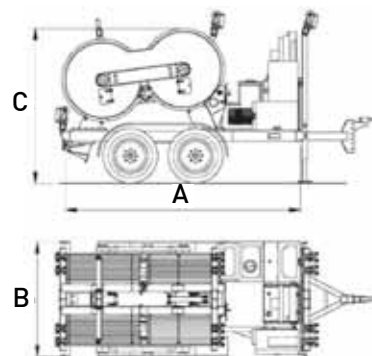
For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

STRINGING MACHINE – TENSIONER 150kN

MODEL NO. F 120.140.42 TENSIONER



			
Capstan Diameter (mm)	Max Conductor OD (mm)	Engine Power (kW)	Max Continuous Pull Force (kN)
1500	4x40	64	150



Model No. F 120.140.42

A x B x C = 5.10 x 2.50 x 3.00m
Weight = 8,500kg

Hydraulic tensioner suitable for stringing one, two, three or four conductors. Two hydraulic circuits allow constant force tension even while varying the stringing speed. The two circuits can be used independently or simultaneously, with automatic partition of the forces. The machine is equipped with an engine for pull-back operations. In pull-back mode, one hydraulic circuit allows variable continuous speed in both directions, allowing use of one of the hydraulic circuits or both coupled.

FEATURES

- Two pairs of steel capstans lined with multi-grooved nylon sectors.
- Machine control panel
- Two dynamometers with preselector of max pull force.
- Two metre counter/speedometers.
- Two safety negative hydraulic brakes.
- Front and back conductor-drivers with nylon rollers, for 4 cond.
- Two back fix conductor-drivers with nylon rollers.
- Rigid axle (tandem), tyres, hand brake and drawbar for towing at low speed on worksite.
- Stabilisers, share and attachments to anchor the machine.
- Oil cooling system.
- Mechanism to synchronise the motion of the capstans in tensioner use.
- Four auxiliary hydraulic circuits for additional equipment (i.e. motorised reel-stands).

OPTIONAL DEVICES

- 005.1** Chassis with tandem axle, drawbar, suspension, air braking system, tires and lights for towing on the road (Registration excluded).
- 006** Lights and braking system of the chassis.
- 012** Installation of one hydraulic circuit to feed a press for high pressure joints (Max. 700Bar).
- 014** Arrangement on the machine of 1 or 2 hydraulic commanded reel winders.
- 020** Set of interchangeable nylon sectors for capstans, with grooves suitable for 2 conductors with 50mm OD (or different diameter on demand).
- 045.2** Automatic clamp for locking the wire (for 4 wires).
- 119** Capstans with treated steel grooves for steel wires.

TECHNICAL



CAPSTAN & ROPE/CONDUCTOR

Capstans	4x1500mm
Grooves per capstan	10 (40)
Max cond. diameter	4x40mm

TENSION PERFORMANCES

Max tension	150kN=2x75kN
Max tension per cond.	37.5kN
Max speed	5km/h

ENGINE

Diesel	
Power	64kW
Cooling System	Water
Electric System	12VDC

PULL-BACK PERFORMANCES (puller)

Max-pull	2x75kN
Max speed	1km/h

For Wire Ropes, Reels and Drum Stands refer to Section E (Pages E39-45)

ELECTRONIC INSTRUMENTS



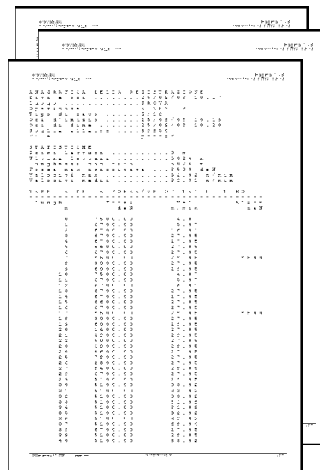
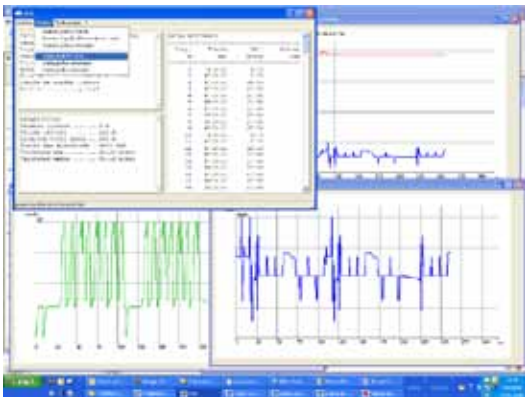
Electronic digital display and interface for control and status of the machine.
Suitable for pullers, tensioners and puller-tensioners. Two versions available:
DEG-V and DEG-M

DEG-V displays in real time the pull force, the speed and length of cable (Up to 240,000 samples, approx. 200km of line). It is easy to use and has hour and date display. It also allows setting of the maximum pull-force limit with alarm.

DEG-M* in addition to the functions of the DEG-V functions, it allows storage of the data monitored, and then allows the data to be copied to a USB memory stick for transfer to a computer.



* The instrument DEG-M can also be equipped with a portable thermal printer for printing the stored data. Model No. DEG-VAL. The printer is supplied with cable for connection to the plug on the instrument, 3 reels of paper and an aluminium case (37x25x10cm) for safe transport and storage.



MACHINE ACCESSORIES

REMOTE CONTROLS REC SERIES

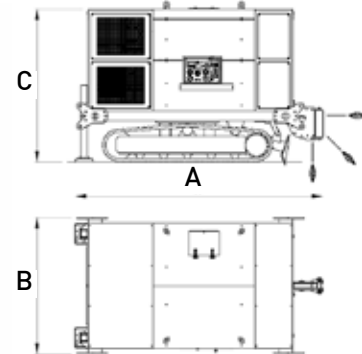


For control of machine, wireless and with cable connection.

NOTE: Most machines require original factory installed electronic equipment to be able to use the remote controls.

Model No.	Picture	Type	Description
REC.1		Cable	Remote control with cable with control stick for the capstans rotation, suitable for 1-circuit machines "puller" and "puller-tensioner" installed with pumps with electronic controls. Max operative distance is 30m.
REC.2		Cable	Remote control via cable, suitable for 1-circuit machines "puller" and "puller-tensioner" installed with pumps with electronic controls. Max operative distance is 30m. OPTIONAL <ul style="list-style-type: none"> • Installation of a dynamometer to read the pulling force, with pre-selection of the max force desired. • Metre counter and speedometer. • Start/stop of the engine. • Engine accelerator.
REC.3		Cable	Remote control via cable, suitable for 2-, 3-, or 4-circuit machines "puller" and "puller-tensioner". Max operative distance: 30 m. OPTIONAL <ul style="list-style-type: none"> • Installation of a dynamometer to read the pulling force, with pre-selection of the max force desired. • Metre counter and speedometer. • Start/stop of the engine. • Engine accelerator.
RER.1		Wireless	Radio control suitable for machines "puller" and "puller-tensioner" installed with pumps with electronic controls. Max operative distance: up to 150 m. FEATURES <ul style="list-style-type: none"> • Capstans rotation control stick (puller use) • Speed regulation control (puller use) • Tension force regulation (tensioner use) • Emergency stop OPTIONAL <ul style="list-style-type: none"> • Installation of a dynamometer to read the pulling force, with pre-selection of the max force desired. • Metre counter and speedometer. • Start/stop of the engine. • Engine accelerator.

MODEL NO 051.3 CATERPILLAR TRACKS



Some machines can be equipped with high resistance rubber caterpillar tracks.

FEATURES

- The caterpillar system allows manoeuvrability in small areas, raise up on inclined paths and to reach a speed of 2 km/h
- Less damage to public, private or protected grounds
- Power transmission supplied by the hydraulic circuit of the puller
- Self-acting negative parking brakes interposed between the transmission gear-boxes
- Reversible movement
- Radio-control
- Hydraulic controlled share on the pull side, for anchoring the machine
- Back stabilizers
- Front and back hooks for towing the machine

Performance	
Speed (Moving)	Adjustable
Max Speed	Standard 2km/hr Optional 4km/hr
Max Inclination	80%
Minimum Turn Circle	4.5m
Specific Load to Soil	0.26kg/cm ³

Examples Of Application	
Puller Model No. F 275.P.40	
Dimensions (m)	2.15 x 1.8 x 1.4
Total Weight (kg)	1,800
Puller Model No. F 285.P.100	
Dimensions (m)	2.86 x 1.85 x 1.87
Total Weight (kg)	3,600
Puller Model No. F 260.PR.400.S	
Dimensions (m)	4.50 x 2.2 x 2.6
Total Weight (kg)	12,500

Dimensions and weight of standard machine with caterpillar, with no other optional devices or rope. For performances and features of the machine, please read its data sheet.

G. DYNAMOMETERS & LOAD CELLS

G1 – G10

DYNAMOMETERS – HI-TOOL-NGK	G1
DYNAMOMETERS – TRACTEL	G2-G6
DYNAMOMETERS – PIAB	G7-G8
TENSION METER – DILLON	G9
NOTES	G10

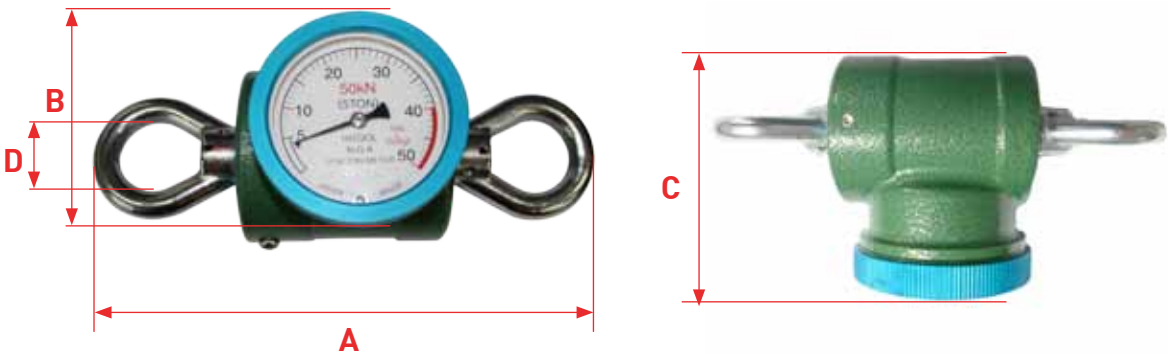
DYNAMOMETERS – HI-TOOL-NGK

DYNAMOMETERS AND LOAD CELLS (MADE IN JAPAN)

HI-TOOL CO., LTD

FEATURES

- Compact, lightweight, rugged construction.
- Designed for line work.
- Graduated in kN (1 kilo newton “kN” = 102 kg force).
- Accuracy +/- 3% full scale.
- Both pulling eyes rotate 360 degrees.
- Optional maximum reading indicator pointer kit available for easy installation.
- Optional easily installed screw-on face with twin steel protective bars also available.
- Each tool is serial numbered and supplied in a heavy duty fabric case with calibration certificate.



Model	Capacity (kN)	Graduation (kN)	A (mm)	B - Body Ø (mm)	C (mm)	D (mm)	Weight (kg)
TM-5	5	0.1	160	75	90	20	0.9
TM-10	10	0.2	190	75	90	25	1.0
TM-20	20	0.5	190	75	90	25	1.1
TM-30	30	0.5	240	75	95	35	1.9
TM-50	50	1.0	250	90	120	35	2.6
TM-100	100	2.0	350	110	140	50	6.0

OPTIONAL ACCESSORIES



GLASS PROTECTION BARS

MODEL No. TM5/30 BARS
Suits TM-5 to TM-30
Dynamometers

MODEL No. TM50/100 BARS
Suits TM-50 to TM-100
Dynamometers



MAXIMUM LOAD INDICATOR

MODEL No. TM5/30 POINTER
Suits TM-5 to TM-30
Dynamometers

MODEL No. TM50/100 POINTER
Suits TM-50 to TM-100
Dynamometers



TM20 Shown with optional glass protection bar and maximum load indicator. To order complete with both optional accessories add suffix 'COMPLETE' to part number. For example: **TM-30COMPLETE**



TRACTEL-LLX-DYNAMOMETERS

DYNAFOR™ Offer an extensive range of load link dynamometers based on the strain gauges technology. This State-of-the art technology is utilised in the new generation LLX2 and LLXH, the connection between sensor and display, USB connection between display and PC, and monitoring software.

The Dynafor™ LLX devices are electronic load indicators to measure tensile forces (N) and to determine hanging loads (kg).



LLX-2.5 shown

COMPACT AND LIGHTWEIGHT

- High strength aluminium alloy and up-to-date miniature electronics giving lightweight and compact units
- Designed to take a shackle each end providing solid anchor points

SAFETY AND RELIABILITY

- Strong with accurate digital display
- Weatherproof and dustproof
- Coefficient of safety:4

FEATURES

- LCD Display.
- Display in mass or force
- Automatic zero when switched on
- Tare over full range
- Digital output for data processing
- Peak hold: maximum effort held in memory
- Low battery indicator.
- Overload indicator

TECHNICAL DATA

- Accuracy: +/- 0.2% of normal capacity
- Battery life - 250 to 700 hours depending on model
- Weatherproofed to IP65
- Operating temperature: -10°C to + 50°C
- Temperature compensation: automatic zero adjustment when equipment free load is switched ON

SPECIFICATIONS

Model		LLX-0250	LLX-0500	LLX-1250	LLX-2500	LLX-5	LLX-12.5	LLX-25	LLX-50	LLX-100	LLX-250
Capacity	t	0.25	0.50	1.25	2.5	5	12.5	25	50	100	250
Accuracy	±kg	0.5	1	2.5	5	10	25	50	100	200	500
Smallest load increments (kg)		0.1	0.2	0.5	1	2	5	10	20	50	100
Test load	t	0.5	1	2.5	5	10	25	50	85	145	333
Max. display	kg/t	250.0	500.0	1250.0	2500	5000	12500	25000	50000	100.00	250.00
Height of digits	mm	18	18	18	18	18	25	25	25	25	44
Weight	kg	1.1	1.1	1.1	1.4	1.9	3.8	6.6	15.1	46	215
Material		Aluminium alloy									
Dimensions mm	A	190	190	190	214	226	310	360	440	660	905
	B	83	83	83	83	90	110	134	164	260	424
	C	56	56	56	56	56	58	68	98	118	248
	D	16	16	16	24	32	47	56	72	108	150
	E	166	166	166	184	197	243	272	332	488	685
	F	12	12	12	15	14,5	33,5	44	54	86	110
	G	47	47	47	47	54	70	84	104	174	250
	H	43	43	43	50	58	92	114	142	227	310
	I	16	16	16	25	32	48	58	86	104	190

DYNAMOMETERS

TRACTEL – LLX1

TRACTEL – LLX1 – DYNAMOMETERS



DESCRIPTION

The dynafor™ LLX1 dynamometers are precision force sensors used to measure forces and indicate loads. Enables use of standard shackles on both ends.

OPERATING PRINCIPLE

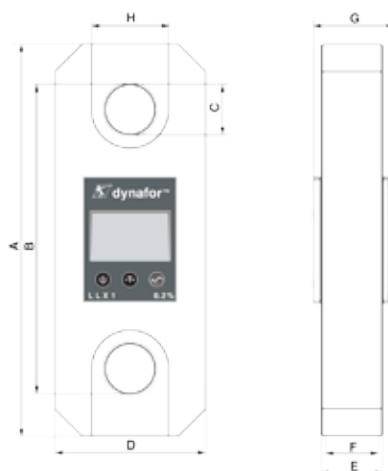
Strain gauge measurement of the extension, within its limits of elasticity, of a metal body subjected to traction stress. The sensor generates an electrical signal that is proportional to the load. This signal is processed by a micro-processor analyser and then displayed on a built-in LCD display.

TECHNICAL SPECIFICATIONS

- Capacities from 0,5 t up to 20 t
- Precision: 0,2 % of full scale.
- Safety coefficient : minimum 4
- Power supply : 3 batteries 1,5 V "AA" or 3 rechargeable batteries 1,2 V "AA"
- Packaging : plastic carrying case
- Protection : IP 65 (NEMA 4)
- See details on page 2

OPTIONS AND ACCESSORIES

- Radio Remote display, type LLX1.



NEW Improved

- Electronics
- Design
- 40% Lighter (LLX)



MODEL: LLX1-REMOTE



MODEL NO.		LLX1-0.5	LLX1-1	LLX1-2	LLX1-3.2	LLX1-5	LLX1-6.3	LLX1-12.5	LLX1-20
Maximum Capacity	t	0.5	1.0	2.0	3.2	5.0	6.3	12.5	20.0
Test Load	t	0.75	1.50	3.00	4.80	7.50	9.60	18.75	30.00
Safety Coefficient		Minimum 4							
Precision	± daN	0.2 % FS							
		1	2	4	6	10	13	25	40
Increment	daN	0.2	0.5	1	1	2	2	5	10
Max. Display	daN	110 % maximum capacity							
Number Height	mm	18							
Autonomy		450h (Batteries 1.5 V "AA")							
Weight	kg	1.1	1.1	1.3	1.5	2.3	2.3	4.3	7
IP Protection		I.P. 65							
Usafe		From - 20° to 40°C							
Sensitivity to T°		0.05% per 10°C							
Sensor Material		Aluminium							
Dimensions mm	A	220	220	233	243	275	275	343	371
	B	196	196	207	207	217	217	257	269
	C	14	14	22	22	28	28	42	54
	D	90	90	100	100	115	115	125	134
	E	32	32	32	32	32	32	51	67
	F	16	16	24	24	29	29	48	64
	G	47.5	47.5	47.5	47.5	47.5	47.5	66.5	67
	H	45	45	50	50	57	57	62	66
Radio Option		RF technology: Zigbee 2.4 GHz				Range : 40 m in free field, see details § 14			

TRACTEL-LLX2-DYNAMOMETERS

DYNAFOR™ Offer an extensive range of load link dynamometers based on the strain gauges technology. This State-of-the art technology is utilised in the new generation LLX2 and LLXH, the connection between sensor and display, USB connection between display and PC, and monitoring software.

DYNAFOR™ LLX2 devices are precision load indicators to measure tensile forces (N) and to determine hanging loads (kg).

One DYNAFOR™ LLX2 units consists of a sensor and a remotely installed display (2,4 Ghz connection).



LLX2-3.2 shown

Extended Range

- Comes in seven capacities: 0.5T, 1T, 2T, 3.2T, 5T, 6.3T and 10T.

Removable Display

- The LLX2 display attaches securely to the sensor unit or can be held in your hand for remote operation.

Crossed Fastening Planes

- The two axis of the sensor are crossed, enabling movements of lifting accessories on both sides, thus avoiding stresses due to load movements and enhancing appliance precision (Coplanar version available on request).

Resistant To Shock and Weather

- The Dynafor LLX2 can be used indoors and outdoors, with excellent shock and moisture resistance, rated to IP66 protection.

High Precision

- The Dynafor LLX2 has an accuracy of 0.1%, the industry standard.

A Wireless Link with 80 Metre Range

- With its 2.4Ghz frequency band, the Dynafor LLX2 provides a large operating range (80 metres) and can be used simultaneously in an environment with no risk of interference where a number of different devices are operating.

High Endurance

- Sensor battery life: 300 to 1000 hours, depending on functions used, and 3000 hours while on standby.
- Display battery life: 48 hours while in use.

Intuitive Commands

- Use of and access to the various functions is fast and easy.

Interchangeable Displays

- The Dynafor LLX2 uses a single model display for all models, ensuring high utilisation and flexibility.

Several Sensors and Displays can be Associated

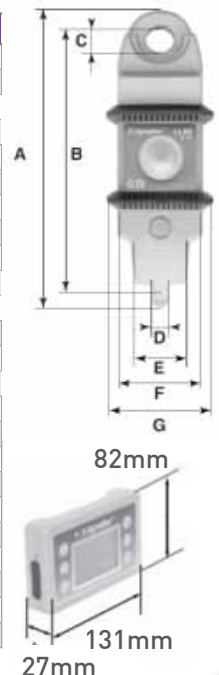
- Up to 4 sensors can be associated to up to 4 displays each.

PC Link

- The optional PC Connection Kit (PC to LLX2 via USB) allows advanced processing of measurement data.

SPECIFICATIONS

MODEL		LLX2-0.5	LLX2-1	LLX2-2	LLX2-3.2	LLX2-5	LLX2-6.3	LLX2-10	Display Unit	
Maximum capacity		0.5	1	2	3.2	5	6.3	10	All	
Test load	t	0.75	1.5	3	4.8	7.5	9.6	15	-	
Safety coefficient		Minimum 4								
Precision		0,1 % according to ISO 376 at 21°C (I.P. 67 = 0,2 %)								
	daN	0.5	1	2	3.2	5	6.3	10	-	
Increment	daN	0.1	0.2	0.5	0.5	1	1	2	←	
Max. Display	daN	550	1100	2200	3520	5500	6930	11000	←	
Number height	mm	-	-	-	-	-	-	-	25	
Autonomy		From 300 to 1000 h depending of functions								48 h
Radio scope	m	80 (in open field) (I.P. 67 = 60)								
RF Technology		2.4 Ghz								
Weight	kg	2.300				3.350		6.45	0.180	
IP Protection		IP 66 NEMA 4 (option : IP 67)								IP 54
Usage		From - 20° to 40°C								
Sensitivity to T°		0.05% per 10°C								
Head Material		Steel								-
Sensor Material		Aluminium						Steel	-	
Dimensions mm	A	248	24	248	248	290	290	341	-	
	B	224	224	224	224	254	254	296	-	
	C	Ø 20	Ø 20	Ø 20	Ø 20	Ø 28	Ø 28	Ø 40	-	
	D	10	10	1	10	1	16	20	-	
	E	24	24	24	24	35	35	5	-	
	F	80	80	80	80	80	80	80	-	
	G	100	100	100	100	100	100	100	-	



DYNAMOMETERS TRACTEL - LLXH

TRACTEL-LLXH-DYNAMOMETERS

DYNAFOR™ Offer an extensive range of load link dynamometers based on the strain gauges technology. This State-of-the art technology is utilised in the new generation LLX2 and LLXH, the connection between sensor and display, USB connection between display and PC, and monitoring software.

The dynafor™ LLXH (h for hybrid) are precision appliances for measuring pulling force and indicating loads.

They combine the proven mechanical body of the LLX with the new electronic software from the LLX2.

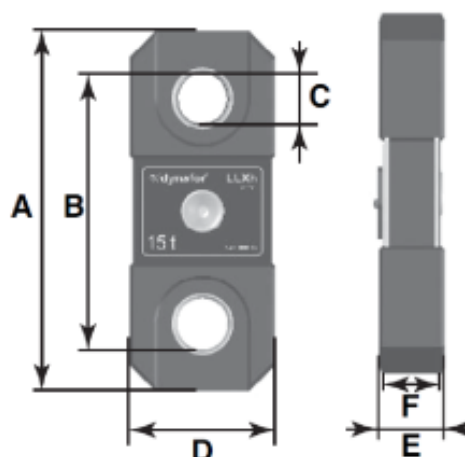
They are precise within +/- 0,2 % and are available from 15T (150kN) to 250T (2,500kN).



LLXH50T shown

SPECIFICATIONS

MODEL		LLXH 15T	LLXH 25T	LLXH 50T	LLXH 100T	LLXH 250T	Display
Maximum capacity	t	15	25	50	100	250	ALL
Test load	t	30	50	100	200	500	-
Safety coefficient		Minimum 4_					-
Precision		0,2 % according to ISO 376 . 21°C					-
	daN	30	50	100	200	500	-
Increment	daN	5	10	20	50	100	←
Max. display		16500 daN	27500 daN	55000 daN	110.00 t	275.00 t	←
Number height	mm	-	-	-	-	-	25
Autonomy		From 300 to 1000 h depending of functions					48 h
Radio scope	m	80 (in open field) (I.P. 67 = 60)					
RF Technology		2.4 Ghz					
Weight	kg	4	6.6	15.1	46	215	0.180
IP Protection		IP 65 (option : IP 67)					IP 54
Usage		From - 20° to 40°C					
Sensitivity to T°		0.05% per 10°C					
Sensor material		Aluminium					-
Dimensions (mm)	A	320	360	440	660	905	-
	B	247.5	277	338	488	685	-
	C	47.5	56	72	108	150	-
	D	130	134	164	260	424	-
	E	58	68	98	118	248	-
	F	48	58	86	104	190	-



DYNAMOMETERS TRACTEL - MWX



TRACTEL-MWX-DYNAMOMETERS

DYNAFOR™ Offer an extensive range of load link dynamometers based on the strain gauges technology. This State-of-the art technology is utilised in the new generation MWX SERIES, the connection between sensor and display, USB connection between display and PC, and monitoring software.

Load indicator equipped with permanent hanging ring and hook with safety latch. Optional wireless remote display and control.

Dynafor™ MWX+ and MWX+ TR are a part of the crane scale product range. They are especially suitable for the quantification of hanging loads (kg) in industrial environments. MWX+ shown



NEW GENERATION COMPONENTS

Three versions available:

Standard, (60m Range)
Radio "TR" (10m Range)
Infrared "IR"

Lightweight, Compact, Strong

Liquid crystal display (LCD): 5 digits
Display: Mass or Force
Height of digits: 25 mm for 0,5 t, 1 t, 2 t and 3,2 t
44 mm for 5 t, 6,3 t 12,5 and 25 t

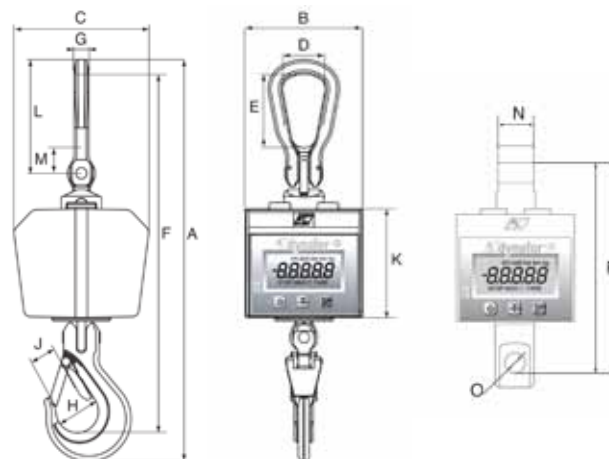
Peak hold

Tare over full range
Ambient temperature range: -10°C to +40°C
Weatherproof and dustproof: IP65
Material: Body in aluminium alloy
Finish: painted

Articulated mechanical interface (hook, shackle)

Top suspension: clevis master link
Bottom suspension: hook with catch
Power supply: 3 x 1.5 V, AA or R6
Battery life: 350 hours variable, depending on the setting of the functions

Accuracy: +/- 0.1% of capacity
Operating coefficient: 1,25
Safety coefficient: 4
High Overload coefficient: 2:1
Optional PC Interface



SPECIFICATIONS

Model		MWX 0.5	MWX 1	MWX 2	MWX 3.2	MWX 5	MWX 6.3	MWX 12.5	MWX 25
Capacity	t	0,5	1	2	3,2	5	6,3	12,5	25
Accuracy (0,1%)	±kg	0,5	1	2	3,2	5	6,3	12,5	25
Smallest load increment	kg	0,2	0,5	1	1	2	2	5	10
Test load	t	0,65	1,25	2,5	4	6,25	7,8	15,5	31,25
Max. display	kg	500,0	1000,0	2000,0	3200	5000	6300	12500	25000
Heights of digits	mm	25	25	25	25	44	44	44	44
Weight	kg	4,3	4,3	4,3	4,3	9	9	20,5	18
Material		Aluminium alloy body							
Dimensions	A	470	470	470	470	694	694	913	-
	B	136	136	136	136	206	206	206	-
	C	160	160	160	160	203	203	203	206
	D	50	50	50	50	85	85	98	203
	E	87	87	87	87	148	148	203	-
	F	423	423	423	423	620	620	800	370
	G	17	17	17	17	27	27	54	-
	H	44	44	44	44	71	71	80	-
	J	30	30	30	30	41	41	63	-
	K	126	126	126	126	167	167	167	-
	L	128	128	128	128	225	225	316	167
	M	18	18	18	18	26	26	50	-
	N	-	-	-	-	-	-	-	68
	O*	-	-	-	-	-	-	-	52

Compatible with the shackle and the hook for Dynafor LLX-25T

NOTE: ADD "TR" TO THE SUFIX FOR RADIO CONTROLLED UNIT (e.g. MWX 0.5 TR)

NOTE: ADD "IR" TO THE SUFIX FOR INFRARED UNIT (e.g. MWX 0.5 IR)

DYNAMOMETERS PIAB

PIAB DYNAMOMETERS

The PIAB Dynamometer is excellent for measurement and control of tension forces, where accuracy, reliability and safety in all conditions is required.

The PIAB Dynamometer is extremely robust and reliable instrument and is an all-weather instrument.

TECHNICAL DATA

ACCURACY: $\pm 0.6\%$ of the max. capacity

WORKING TEMPERATURE: Max. $+60^{\circ}\text{C}$

TAREING: The dynamometer can be tarred to approx. 10% of the full scale.

To obtain best accuracy the dynamometer should be supplied calibrated for a known tare.

SCALE: White lacquered with black graduation.

PROTECTION CLASS: IP 67, IEC 529 NEMA 4X

Range of Application

The PIAB Dynamometer is an all-weather instrument, equally suitable for use in the laboratory as out in the field for weighing and measuring mechanical forces.

Function

The pull rod movement operates the scale drum through a square thread stem.

The power-absorbing element consists of specially made Belleville type spring washers, designed to be entirely free from wear. The spring washers cannot be overloaded.

Safety

Safety factor 5:1, guaranteed to withstand a load of 5 times full scale reading before rupture.

The resistance to rupture is tested by the National Swedish Institute for Materials Testing.

The PIAB Dynamometer may be overloaded by 100% without impairing the accuracy.

The PIAB Dynamometers, types M-G, have drop-forged steel eye brackets (SIS 2174, St 52-3N acc. to DIN 17100, 50 D acc. to BS 4360); giving a guaranteed impact resistance to -20°C .

The O-ring of the pull rod is protected by a neoprene rubber membrane.

On instantaneous unloading, e.g. breaking test, the return movement of the pull rod is retarded by a specially made spring washer. The PIAB Dynamometer is approved by the National Board of Occupational Safety and Health for integral connection in the carrying system of a lifting device and for weighing of test loads in connection with inspection.

PIAB



Dynamometer for remote reading

The PIAB Dynamometer used for remote reading is supplied with a built-in precision potentiometer. The potentiometer is directly connected to the scale mechanism of the PIAB instrument. The electrical resistance of the potentiometer varies in proportion to the load on the dynamometer.

The resistance is indicated on a receiving instrument, calibrated individually and marked with the same serial number as the dynamometer.

The electrical connections are made on a connection block in a surface mounted connection box.

Contact function

The PIAB Dynamometer can be equipped with a built-on adjustable Switch Head. Using a Microswitch, which is directly influenced by the pull rod, the PIAB Dynamometer gives an electrical contact function

at a preset value. For further technical specifications please refer to PIAB Info 9116-1 PIAB Switch Head Dynamometer.

Protection against corrosion

The PIAB Dynamometer is fully pressure tight and each instrument is pressure tested.

The external surfaces are zinc plated with clear chromate passivation.

If the PIAB Dynamometer is to be used in a very corrosive atmosphere, it can be polyester lacquered.

APPLICATIONS FOR THE PIAB DYNAMOMETER



In line construction it is important to control the installed tension of conductors according to type and conditions. For field work light and robust equipment is especially important. The PIAB Dynamometers are used for this duty all over the world.



Obligatory standards of control for occupational safety and health require that safety ropes and belts are regularly and properly checked.



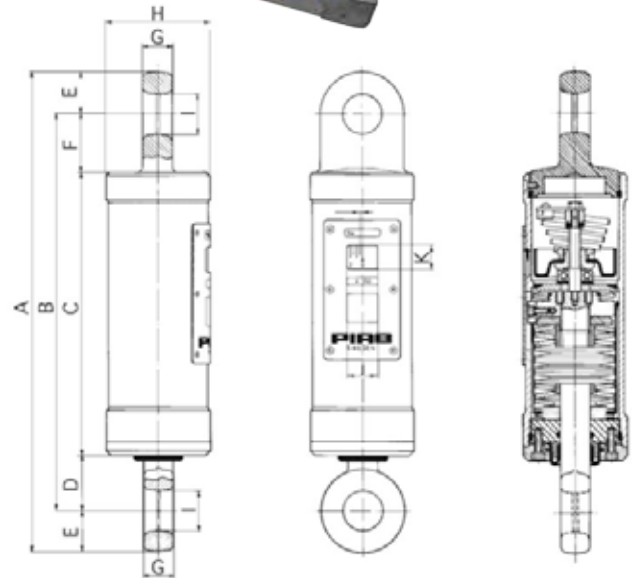
This electrical overhead traveling crane is protected against overload by a PIAB Dynamometer in the hook line anchorage, giving the crane operator the actual load on the hook together with overload warnings and power shunt.

PIAB DYNAMOMETER FUNCTION



The pull rod movement operates the scale drum through a square thread stem. The power-absorbing element consists of specially made Belleville type spring washers, so designed as to be entirely free from wear. The spring washers cannot be overloaded. The PIAB Dynamometer can be overloaded with 100% without affecting the accuracy.

- Can temporarily be overloaded by 100% without affecting the accuracy.
- Fully pressure tight, and each instrument is pressure tested.
- The PIAB Dynamometer can be equipped for remote reading or contact functions (micro switches).
- Available with polyester lacquering for use in very corrosive environment. (optional)



Model No.	TYPE	Capacity	Graduations		Weight Kg	Measurements in mm									
		kg/N	1	Mm		A	B	C	D	E	F	G	H	I	J x K
300015	K	250kg	5	2.2	1.9	266	230	165	42	18	23	20	50	17	24 x 20
300016	NK	2,500N	50N												
300020	A	500kg	10												
300021	NA	5,000N	100N	2											
300025	B	1,000kg	20												
300026	NB	10kN	200N		2.3	292	256	191	42	18	23	20	50	17	26 x 20
300230	B x 1.5	1,500kg	50	1.6											
300231	NB x 1.5	15kN	250N												
300030	M	2,000kg	25	2.3	7.8	395	327	234	45	34	48	25	86	33	26 x 20
300031	NM	20kN	500N												
300035	O	3,000kg	50	2.5											
300036	NO	30kN	500N		15	413	329	230	45	42	55	30	122	40	26 x 20
300040	Q	5,000kg	50	2.5											
300041	NQ	50kN	500N												
300045	S	10,000kg	100	3.5	26.5	495	385	260	60	55	65	45	149	56	26 x 20
300046	SQ	100kN	1kN												
300050	U	20,000kg	200												
300051	NU	200kN	2kN	4.2	78	675	505	300	102	85	103	70	228	81	65 x 23
300055	G	25,000kg	200												
300056	NG	250kN	2.5kN												
300060	E	50,000kg	250	2.7	115	831	631	387	123	100	121	95	231	115	65 x 23
300061	NE	500kN	2.5kN												

TENSION METER DILLON

QUICK CHECK TENSION METER

DILLON

The Dillon Quick-Check Tension Meter quickly measures tension in cable guardrails, guy lines and overhead wires. It installs, measures and removes in seconds. The digital load cell is highly accurate and requires no lookup or correction tables.

The Fastest Cable Tension Meter

The Dillon Quick-Check can be placed on a cable, measure its tension, and removed in under five seconds! There are no complex lookup tables, no conversion charts. The operator can quickly select from 15 different wire sizes and types stored in Quick-Check's memory. The Check-Tensioning mode graphically displays the current and target tensions for extremely quick setting of line tension. Even the infrequent battery changes are quick.



Broad Application

The Quick-Check can be employed in many industries to ensure proper tensioning. Typical applications include tower and stack guy wires, pre-tensioned cable barriers, bridges, elevators, winch rope, prestressed concrete, aircraft cables and utilities.

FEATURES

- Accommodates a wide range of wire sizes and styles
- Extended handle length facilitates easy placement on cable
- Built-in averaging saves time and eliminates errors
- Stores calibrations for up to 15 unique wire sizes and types
- Built-in temperature sensor with patented automatic tension adjustment
- Sheaves with bearings eliminate friction and provide the best accuracy
- Easy-to-read display with full-text prompts and easy to use soft key interface
- Uses standard AA batteries and has a long life
- Time saving check-tensioning mode
- Portable and rugged – designed for outdoor use

SPECIFICATIONS OF UNIT

MODEL NO.	TENSION CAPABILITY (KN/KG)	WIRE SIZE (MM)	ACCURACY* (±) %	NO. OF CALIBRATIONS	TEMP RANGE °C	SHEAVE RANGE (MM) ¹	RE-CALIBRATION	SIZE (CM)	WT (KG)
36289-0022	10/1000	4.76-19.05	3-5	Up to 15 Independent	-20 to 60	←12.7	24 Months, Sooner with Frequent Use	25x59x8	5
36289-0014	45/4500								
36328-0017MTS	Carry Case - Medium Duty, Die Cut Density Foam							70x41x20	1.5

* ±3% instrument capacity (calibrated to specific wire size & type, ±5% with same wire diameter as calibrated but different wire type)

¹ Sheave accommodates rated wire size and 12.7mm smaller. Sheaves are not compatible with larger wire sizes – order additional sheaves for wire sizes.

SELECT SHEAVE (Other sheave sizes available upon request)

MODEL NO.	SHEAVE CODE	ACCOMMODATES WIRE DIAMETERS (MM)
36309-0085	L	4.75-6.5
36309-0044	P	4.75-12.7
36309-0010	S	6.5-19.0
36309-0101	T	12.7-25.4

Note that the first wire calibration is free, all others are charged, with pricing reduced the more you order (Categories are 2-5, 6-10 & 11-15).

EXAMPLE OF ORDER

MODEL NO.	DESCRIPTION
36289-0014	Quick Check Meter
36309-0010	Sheave Code "S" (6.5-19mm)
1st Calibration (FREE)	For Wire 15.88mm (1x19)
2nd Calibration	For Wire 12.70mm (1x7)
3rd Calibration	For Wire 9.53 (1x7)
36328-0017MTS	Carry Case

Order a quick check meter used to tension up to 45kN wires; 15.88mm (1x19), 12.70mm (1x7) and 9.53mm (1x7) with carry case.

DILLON Dynamometers also available upon request

NOTES

[illegible]

H. ASSORTED EQUIPMENT

H1 – H18

TREE TRIMMING KITS	H1
TOOL HOLDERS-BOOM MOUNTED – JAMESON	H2
TOOL HOLDERS-BUCKET MOUNTED – JAMESON	H3
STORAGE EQUIPMENT – ESTEX	H4-H6
DIRT LIFT TARP – ESTEX	H7
LOAD CONTAINMENT NETS – SSEA	H8
ROBOREEL - WIRE REELS	H9
HEADLAMP – ROBOTTOOLS	H9
SIGNALLER TORCH	H10
POLE BUG	H11
WORK-SITE LIGHTING	H11-H13
EMERGENCY HAZARD LIGHTING	H14
RATCHET WRENCHES	H15
BATTERY IMPACT WRENCH	H16-H18

TREE TRIMMING

H ASSORTED EQUIPMENT

TREE TRIMMING KITS (MADE IN USA)

ALL OF YOUR TREE TRIMMING NEEDS IN ONE BAG

Open the tool kit bag and you have your choice of tree trimming tools in the length you need, all in a convenient heavy duty vinyl tool bag that offers long wear and maximum protection for the tools.



Kit Qty		Model No	Description
4141	4142		
4	-	HF546-4	Stick Ext 1.2m
-	4	HF546-6	Stick Ext 1.8m
1	1	HF4125	Cutter Head
1	1	HFA18007	Stick Base Cap
1	1	HFA10012	Adaptor Universal Head
1	1	HFP10046	Universal "S" Hook
1	1	HFA11000	Saw Pruning Universal
1	1	HFA10016	Handle Universal Saw
1	1	HFA30007	Scabbard for Saw
1	-	HF01-020	Carry Bag 1.2m Sticks
-	1	HF01-021	Carry Bag 1.8m Sticks

Model No.	Description	Weight
4141	TREE TRIMMING KIT 1,200mmL x 32mm DIA ROUND FOAM FILLED SECTIONS (electrically tested at factory)	6.8kg
4142	TREE TRIMMING KIT 1,800mmL x 32mm DIA ROUND FOAM FILLED SECTIONS (electrically tested at factory)	8.6kg
Optional		
4005	ROPE INSULATOR 860mmL	0.136kg
4010	ROPE INSULATOR 1100mmL	0.136kg



Rope Insulator for up to 33kV
MODEL No. HF4110

Rope Insulator for up to 66kV
MODEL No. HF4005



BOOM MOUNTED TOOL HOLDERS (MADE IN USA)

Take the tools out of the bucket and mount them on the boom for safe, convenient access. Made from high impact plastic, Jameson's boom-mount tool holders can be strapped to round or square booms



All boom mount tool holders include the Jameson Handle Unit. This web strap and ratchet lock clamp fastens the hydraulic tool securely into a fixed position on the boom. Its rubberised liner prevents the tool handle from sliding out of the upper holder box. Fits round and square booms.



Nylon Ratchet Strap
MODEL No. 24-09R



Saw Holder
MODEL No. 24-08R



Long-Reach Pole Saw Holder
Suits Greenlee/Fairmont Style Saws
MODEL No. 24-03F

Long-Reach Pole Saw Holder
Suits Stanley Style Saws
MODEL No. 24-03



Circular Saw Holder
Includes Handle Holder (24-08R)
MODEL No. 24-02



24-04 Hydraulic Pruner Holder
Includes Handle Holder (24-08R)
MODEL No. 24-04

Model No.	Description	Size (mm)	Weight (kg)
24-08R	Saw Handle Holder	203 x 114	0.6
24-09R	Nylon Ratchet strap	178 x 89	0.4
24-03F	Long Reach Pole Saw Holder Suits Greenlee/Fairmont Style Saws	813 x 102	3.0
24-03	Long Reach Pole Saw Holder Suits Stanley Style Saws	813 x 102	1.9
24-02	Circular Saw Holder Includes Handle Holder (24-08R)	305 x 178	2.0
24-04	Hydraulic Pruner Holder Includes Handle Holder (24-08R)	305 x 190.5	2.0

(SWP) PLATFORM MOUNTED TOOL HOLDERS

AERIAL BUCKET MOUNTED TOOL HOLDERS (MADE IN USA)

Jameson's heavy duty bucket mount tool holders offer safe, convenient storage for bucket truck tools. Water repellent and UV resistant, they are designed to withstand extreme weather conditions.



Chainsaw Scabbard
MODEL No. 24-14A



Bucket Tool Holders feature an Adjustable Clamp Bracket that fits any size bucket, with or without liner, and mounts inside or outside bucket.



Impact Wrench Holder
MODEL No. 24-12A



Impact Wrench Holder with
Scabbard
MODEL No. 24-12AH

Slide in
adjustable
dividers



Tool Tray
MODEL No. 24-17



Removable
Liner

Chainsaw Scabbard with
Removable Liner
MODEL No. 24-14L



2Double Pocket Tool holder
MODEL No. 24-15D



Tool Board
MODEL No. 24-25

Model No.	Description	Size (mm)	Bucket Lip Max (mm)	Weight (kg)
24-12A	Impact Wrench Holder	254 x 125 x 178	95	1.2
24-12A	Impact Wrench Holder with Scabbard	762 x 280 x 229	95	2.2
24-17	Bucket Mounted Tool Tray	584 x 356 x 203	81	3.2
24-14L	Chainsaw Scabbard with Removable Liner	890 x 203 x 152	89	2.1
24-14A	Chainsaw Scabbard	850 x 127	89	2.0
24-15	Single Pocket Tool holder (not shown)	559 x 229 x 178	73	1.8
24-15D	Double Pocket Tool holder	559 x 229 x 229	73	3.0
24-25	Tool Board	571 x 457	71	2.5

SWP (PLATFORM) TOOL APRONS & HOOKS

STORAGE EQUIPMENT (MADE IN USA)

Estex is a solutions provider in the storage and management of tools



ESTEX



SINCE 1900

TOOL APRONS

Estex has designed a series of tool aprons with multiple pocket configurations to fit inside the bucket. They were designed to fit flat against the liner to minimise interference with line work yet maximise a linemen's ability to reach the necessary tools. Each apron has a non-conductive rod in the top for support as well as two brass grommets.



Yellow Vinyl Tool Apron with
Multiple pockets
MODEL No. 1829-AP-2



Black INOSIL Tool Apron with
hard body and Multiple pockets
MODEL No. 1829-HB-7



Model No.	Description	Size (mm)	Weight (kg)
1829-AP-2	Tool Apron-Yellow w/multiple pockets	724 x 102 x 673	2.3
1829-HB-7	Tool Apron-Black INOSIL w/multiple pockets & hard body	607 x 102 x 540	3.0

HANGING HOOKS



MODEL No.
1830



MODEL No.
1831



MODEL No.
1842



MODEL No.
1842-1



MODEL No.
1843



MODEL No.
1849



MODEL No.
1849-OE



MODEL No.
1849-OE-1

Model No.	Description	Bucket Lip Size (mm)	Weight Approx. (kg)
1830	Polymer Hook 17.5mm Dia	55.00	0.2
1831	Polymer Hook 17.5mm Dia	76.00	0.2
1842	PVC Hook 16mm Dia	76.00	0.2
1842-1	PVC Hook 19mm Dia	76.00	0.2
1843	PVC Hook 16mm Dia	-	0.2
1849	PVC Hook 19mm Dia	100.00	0.2
1849-OE	PVC Cross Arm Hook 19mm Dia Also suitable for 95.25mm wide bucket lips	95.25	0.2
1849-OE-1	PVC Hook 19mm Dia	100.00	0.2

STORAGE EQUIPMENT - BAGS & TOOL BUCKETS

STORAGE EQUIPMENT (MADE IN USA)

ESTEX



SINCE 1900

BAGS AND TOOL BUCKETS

All Estex tool bucket are made of heavy duty canvas or vinyl coated nylon for long wear and use. The top ring is a single piece moulded, non-metallic material designed to stay open even under severe and continuous load. The bottoms are made of high impact polymer resins or leather.

The bag has leather side supports at the rope holes and a unique Estex feature whereby the bottom is stitched on and the body of the bag is folded back over the stitches to protect the threads from abrasion and excessive wear. This has the added benefit of providing a smooth padded area at the bucket bottom. Otherwise, your bucket becomes a rough sharp source of wear on the bucket truck and on the aerial bucket.

The bucket also has Strong UV resistance and rot resistant rope handle



Hose Bag
MODEL No. 2630



Hydraulic Crimper Holder
MODEL No. 1863



Hydraulic Crimper Holder
MODEL No. 1807-1



Model No.	Description	Dimensions (mm)	Weight (kg)
2630	Hydraulic hose bag, heavy weight vinyl	432 x 89 x 470	1.8
1863	Hydraulic low pressure crimper holder heavy weight vinyl bag	200dia opening x 400h	4.1
1807-1	Heavy duty canvas tool bucket for bolt cutters & compression tools, hard body plastic, 5 compartments	406 x 229 x 508	2.3

TOOL BUCKETS



Miniature Tool Bucket
MODEL No. 2009



Vinyl Tool Bucket
MODEL No. 2059-V-HB



Canvas Tool Bucket
MODEL No. 2022



Tapered Canvas Tool Bucket
MODEL No. 2050-S-IP



Model No.	Description	Dimensions (mm)	Weight (kg)
2009	Miniature tool bucket, without pockets	127 Ø opening x 152h	0.9
2022	Heavy duty canvas tool bucket, moulded top ring & bottom, polypropylene handle without pockets	203 Ø opening x 305h	1.0
2050-S-1P	Tapered heavy duty canvas tool bucket, moulded top ring & bottom	305 Ø opening 203 Ø bottom x 305h	1.1
2059-V-HB	Vinyl tool bucket with plastic bottom, 14 pockets, rope handle and snaphook	304 Ø opening x 304h	1.3

STORAGE EQUIPMENT - TOOL BAGS

STORAGE EQUIPMENT (MADE IN USA)

ESTEX



SINCE 1900

TOOL BUCKETS



Oval Tool Bucket (FR)
MODEL No. 1810-FR-C



Hard Body Oval Tool Bucket
MODEL No. 1820-HB-C



Canvas Oval Tool Bucket
MODEL No. 1820



Splicers Oval Tool Bucket (INOSIL)
MODEL No. 1815-14-7



Canvas Splicers Oval Tool Bucket
MODEL No. 1815-14



Splicers Tool Bucket
MODEL No. 2059



Canvas Tool Carrier
MODEL No. 2196-2-TVA



Canvas Tool Bags
MODEL No. 2113-20
MODEL No. 2113-22



Canvas Tool Bag
MODEL No. 2113-24

Model No.	Description	Dimensions (mm)	Weight (kg)
1810-FR-C	Oval tool bucket, fire retardent, hard body liner, w/cover and stabaliser	381 x 178 x 229	1.6
1820-HB-C	Oval tool bucket, w/hard body liner & cover (15 inside pockets)	381 x 178 x 229	1.2
1820	Heavy duty canvas oval tool bucket, w/pvc side supports (15 inside pockets)	381 x 178 x 229	1.1
1815-14-7	Splicers cordura oval tool bucket (inosil) (15 pockets inside / 14 pockets outside)	381 x 178 x 229	1.7
1815-14	Splicers canvas oval tool bucket (15 pockets inside / 14 pockets outside)	381 x 178 x 229	1.3
2059	Splicers heavy duty canvas tool bucket moulded top ring & bottom, polypropelene handle, (14 pockets outside)	305 x 305	1.4
2196-2-TVA	Canvas tool carrier, w/shoulder strap (20 pockets inside / 2 large pockets inside)	467 x 222 x 229	0.9
2113-20	Heavy duty canvas tool bag, steel frame, hard base, leather strap closure (508mm long)	508 x 229 x 356	1.9
2113-22	Heavy duty canvas tool bag, steel frame, hard base, leather strap closure (559mm long)	559 x 254 x 356	2.1
2113-24	Heavy duty canvas tool bag, steel frame, hard base, leather strap closure (610mm long)	610 x 254 x 356	2.2

DIRT LIFTING TARP

MODEL NO. 2864-8DTR-SF DIRT LIFTING TARP (MADE IN USA)

FEATURES

- Heavy duty safety orange rip-stop canvas with double stitched reinforced webbing
- Tested to AS3668-1989 Appendix D
- Multi-trip use
- Keeps worksite clean and keeps soil/dirt off pedestrian walkways
- Easily empty boring auger dirt and return dirt to same hole by releasing a single strap during pole change overs
- Folds up for truck compartment storage

SPECIFICATIONS

Dimensions	2.4m x 2.4m
WLL	1350kg
Colour	Safety Orange



Certified, Cyclic Load
Tested Over 70 Times!

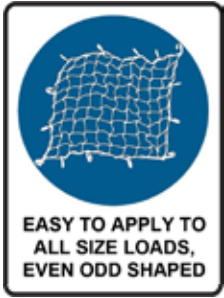


Manufacture Label with
Rating / Care / Warning



LOAD CONTAINMENT NETS

Contain packages and loose items in the back of your Truck, Ute or Trailer



Type	11 Sizes Available	Break Force (kg)
POLYETHYLENE (PE)	(Blue) has a Strand & Knotted appearance	68

Model No.	Size (m)
LCNPE1.8X1.5	1.8x1.5
LCNPE1.8X2.4	1.8x2.4
LCNPE2.0X2.4	2.0x2.4
LCNPE2.1X2.1	2.1x2.1
LCNPE2.4X2.4	2.4x2.4
LCNPE2.2X2.6	2.2x2.6
LCNPE2.0X3.0	2.0x3.0
LCNPE2.4X3.0	2.4x3.0
LCNPE4.0X3.0	4.0x3.0
LCNPE5.0X3.0	5.0x3.0
LCNPE6.0X3.0	6.0x3.0
LCN-TIE DOWN	10 ropes per Pack



BLUE NET (PE)
SHOWN IN CARRY BAG



TIE-DOWN ROPES AVAILABLE
(10 PER PACK) MODEL No.
LCN-TIE DOWN

PLASE NOTE: SPECIAL DESIGNED NETS ARE AVAILABLE UPON REQUEST

PLEASE NOTE: THIS PRODUCT OFFERS EXCELLENT CONTAINMENT, BUT IN NO WAY EXEMPTS THE USE OF ADEQUATE APPROVED RESTRAINT METHODS

ANTL TESTED (AUSTRALIAN NATIONAL TESTING LABORATORY)







TIE-DOWNS CAN BE
USED TO BUNCH
EXCESS NETTING



GUY WIRE REEL & HEADLAMP

ROBOREEL - GUY WIRE REEL

		<p>REELS</p> <p>Provides an easy and safe means to unwind and rewind guy wire and cable on rugged, all-weather heavy-duty reels. Made of steel and zinc coated. Features four adjustable arms (Guy Wire) or eight adjustable arms (Triplex) that allow easy and secure means of loading, unwinding and rewinding various coils with different diameters. Coils can be simply rolled into the stand and clamped into place with the adjustable arms. Wire is easily pulled or rewound through “smooth” centre guides.</p> <p>BASE PLATE</p> <p>Can be installed on wall or floor with base plate sold separately. Securely and easily mount or remove your reel. Slide reel into base plate and a spring loaded latching system provides a secure means of holding the reel during transport. Ideal accessory to quickly remove or remount.</p>
		
<p>GUY WIRE MODEL NO. 5415 & 5276</p>	<p>TRIPLEX MODEL NO. 5478</p>	

Model No.	Description	Features	Accepts Coils Outside/Inside Dia. (mm)	Dimensions (mm) HxDxW	Wt (kg)
5276	Guy Wire Reel for 12.7mm OD	4 Adj. Arms	559-787/(Widths Up to 121mm)	857x235x819	18.6
5415	Guy Wire Reel for 12.7mm OD	4 Adj. Arms	813-915/(Widths Up to 222mm)	857x235x819	20.1
5478	Triplex Wire Reel	8 Adj. Arms	660-813/356-508	876x356x851	26.4
5074	Base Plate	-	-	-	3.0

HEADLAMP (MADE IN USA)

MODEL NO # 7625

The number 1 helmet light for Industrial Workers & Utility Linemen is now even better! The Ultimate III has two times the lumens and longer burn times!

FEATURES

- Extremely Bright 50 Lumens
- Intrinsically Safe (Class 1 Div. 1)
- Lightweight & Waterproof
- Four Light Modes(high, medium, low, flashing)
- Adjustable Beam
- Extremely Rugged & Chemical Resistant
- Stretch Rubber
- Head Band Kit
- Secure Helmet Mounting



Utilising a unique “Superbrite LED” and proprietary optics, the ULTIMATE III is optimal for both localised needs and long distant spotting requirements (in fact, it is so powerful on the high setting that it can be used as a flashlight). Realising that workers need different amounts of light for different conditions and situations – the ULTIMATE III is equipped with three brightness levels and a blinking emergency/signalling mode.

SPECIFICATIONS

- Power: 50 Lumens
- Lamp: Shock Resistant LED
- Batteries: 3 AAA Alkaline
- Burn Time: 60 + hrs (low)
- Weight: 105 g



TORCH (INDUSTRIAL, RAIL & MINING)

DESCRIPTION

The SIGNALLER is a lantern and torch combined. It has multiple LEDs for greater light concentration that is visible for up to 2km.

The standard units come with green, red, amber and white LEDs.

The torch is powered by a 6volt 4Ah rechargeable battery with up to 30 hours life per full battery charge. They are weather proof and come with adjustable stand and carry strap.

All units are supplied with both AC and DC battery chargers.

Warranty:12 months from date of purchase.

Model No	Lights	Type
RGWA	White, Green, Red and Amber LEDs and torch.	Standard
RGW	White, Green and Red LEDs and torch.	Special

NOTE: Custom built models available upon request.

Kit Includes All Items

- Torch
- Shoulder Strap
- Instruction Manual
- 230 VAC Charger
- 12 VDC Charger



MODEL NO. TWINLEDWHITE

Specially designed bright LED torch for maintenance personnel which has the same features as the Signaller torch above but has;

- 2 light modes (white only)
- Built in protection power supply
- Wall mount plate and wires for permanent mounting on wall or in vehicle
- Centre superior "CREE" LED'S
- Ideal for workshops



WORKSITE LIGHTING

LIGHT – POLE TRANSPORTATION

“POLE BUG” LED STROBE LIGHT & 2-FLAG HOLDER

DESCRIPTION

Using effective, long lasting LED technology - these LED’s are rated for 100,000 hours of heavy duty operation providing a reliable pole mount transportation device. The single bright **RED LED** (also available in **Amber**), with a 8-11km visibility range, includes four flash patterns: Comet, Single, Steady Burn and Flare Flicker. The light module is encapsulated for vibration and moisture resistance with dual front/angled reflectors. The lights can be viewed from the back and sides. The system is powered by three alkaline “C” batteries allowing the 100+ hours of continuous operation. Easy to attach and deploy, using heavy duty strap that attaches to all type of poles and sizes. Additional features include powder coated metal components and dual flag holders. Includes batteries and two red flags.

FEATURES

Red or **Amber** LED Light: Four Flash Patterns
 LED Rating: 100,000 hours
 Batteries: Three Alkaline “C” size
 Battery Run Time: 100+ Hours

Model No.
 7015-R (**Red**)
 7015-A (**Amber**)



WORKSITE

SOLARIS RANGE - LED PORTABLE RECHARGEABLE AREA LIGHTING SYSTEM

The Solaris Range is Nightsearcher’s new generation of portable rechargeable lighting systems. The newly designed head, fitted with 18 LEDs, offers individual optics per LED to maximise light coverage and minimise glare.

Available in a range of sizes to suit all applications, the largest unit generates an incredible 24,000 lumens spread over 100m. These LED floodlights are a safe alternative to halogen based equipment.

Each of the range offers HIGH/LOW/FLASHING options and is designed to pulse every 30 seconds when the battery is running low. It comes with a red “stand by” LED allowing the user to locate the lamp when not in use.

Supplied and incorporated in a specialist robust outdoor case, which is covered by an unlimited lifetime guarantee. The Solaris complete system can be assembled within seconds.



Solo #18880P



Duo (38) #18881P

Model No.	18880P	18881P
Light Output	3000 / 1500 lumens	6000 / 3000 lumens
Light Source	18x CREE® LEDs	18x CREE® LEDs
Beam Spread	30° – 120°	60° – 240°
Running Time	9hrs (High) 18hrs (Low) 36hrs (Flashing) 900hrs (Standby)	4.5hrs (High) 9hrs (Low) 18hrs (Flashing) 450hrs (Standby)
Charge Time (hrs)	7hrs	7hrs
Battery	12V 24Ah lead acid	12V 24Ah lead acid*
Head Size (mm)	L300 x W58 x H248	L300 x W58 x H248
Case Size (mm)	L455 x W315 x H365	L455 x W315 x H365
Extendable Height (mm)	Min 1145 / Max 1945	Min 1145 / Max 1945
Product Weight (Kg)	16	23
Approvals	CE	CE

WORKSITE (Continued)

HEAD

- 18 High powered CREE® LEDs
- Advanced focused optics for intensified light; creating 3 times more power
- IP65
- Robust and weatherproof construction
- 50,000 hours LED lifetime
- Low heat emission and environmentally friendly lighting source
- Low voltage 12V safe operation
- 360° swivel and 180° tilting head
- Can operate on power sources between 10V - 30V

CASE

- Ultra high-impact ABS plastic with air pressure compensation valve
- Closed lid charging
- Equipped with locks, handles, inline wheels and telescopic-handle*
- Able to withstand temperatures ranging from -40° up to +80° C
- Sturdy, stackable and weatherproof
- Unlimited lifetime guarantee

*In-line wheels and telescopic handle applies to DUO (38 A/h) and QUATTRO only

MAST

- 4 section extendable mast with 360° tilt and turn rotating head
- Quick lock/release system
- Extends from 500-1300mm. Maximum height when fitted on case 2245mm
- Linkable, for extended height

SUPPLIED WITH

Head, case, mast, power source and mains charger

OPTIONAL EXTRAS

- 16A Single charger enabling use of one head, whilst charging
- Car adapter / 5m extension lead
- Magnetic base
- Mounting clamp
- Multicharger
- Infra-red LEDs
- Coloured filters
- Flashing mode
- Solar panel
- Different lens for wider or narrower beams
- Additional power supply enabling head to run directly from a 230V power source



WORKSITE LIGHTING

LED ROBUST AND LIGHTWEIGHT FLOODLIGHT

FEATURES

The LED WORKBRITE is a fully portable and rechargeable floodlight. The pivoting head, with 180 LEDs, offers a bright white beam. Using a rechargeable lead acid battery, the light will operate for 3.5 hours on full brightness, and 6+ hours at a reduced brightness.

Compact and lightweight, this unit is easy to carry and both chargers can be stored inside the back of the head for easy transportation. Cool operation and unlike generator powered lighting there is no noise or pollution giving an energy efficient solution for a greener future.

- 2000 lumens
- 180 bright LEDs – up to 100,000 hour life
- Operates for 3 to 6+ hours
- Quick recharge
- Battery charging indicator
- Battery over charge protection
- Cool operation, suitable for confined or limited spaces
- 110° adjustable light head
- Impact resistant plastic housing – robust and weatherproof
- Compact – chargers can be stored in the back of the head

SPECIFICATIONS

Model No.	NSLEDWORKBRITE
Light output	2000 lumens
Light source	180 LEDs
Battery	4V 7A/h lead acid
Running time	3.5 to 6+hrs
Charge time	8hrs
Product weight (kg)	2.3
Product size (mm)	L306 x W258 x H457
Boxed size (mm)	L270 x W130 x H330
Boxed weight (kg)	2.6

Supplied with: Mains and vehicle chargers

Optional Extras: Tripod 1.7m (Model No. NSLEDWORKBRITE)



Folds for easy transport

EMERGENCY RECHARGEABLE LED HAZARD LIGHTS

The Pulsar 6-pack rechargeable LED hazard warning lights are designed so they can be quickly deployed to warn traffic or direct traffic away from hazards.

Supplied as a set of 6, these small but robust lights are manufactured in shock resistant plastic housing, are waterproof to a depth of 10 metres, and will float.

They are virtually indestructible (withstanding most vehicle weights if run over). Incorporating strong magnet to allow attachment to vehicles etc.

Ingenuously designed, the PULSAR is charged within its case, using either mains or vehicle charger.

- Rechargeable LED emergency lights
- Available in sets of amber, blue, green, red or infra-red
- 16 LEDs per PULSAR
- 9 different flashing patterns including rotating, flashing and SOS
- Visible from any angle, from a distance up to 300 metres
- Shock resistant housing, able to withstand most vehicle weights
- Waterproof, can be submerged to a depth of 10 metres
- Incorporating a strong magnetic base
- Rechargeable Li-ion batteries
- Charged directly in the storage case
- Battery charging indication



Part No.	NSPULSARB (Blue) NSPULSARR (Red) NSPULSARY (Amber) NSPULSARG (Green) NSPULSARIR (Infrared) (THE ABOVE COME AS A SET OF 6)
Light source	Coloured LED (Life time up to 50,000hrs)
Battery	Li-ion 3.7V
Charge time (hrs)	1-3 Pulsar: 2-6 hrs 4-6 Pulsar: 12-14 hrs
Product size(mm)	Pulsar L180 x W108 x H35 Kit L444 x W368 x H64
Product weight (kg)	Pulsar 0.19 Kit 3.00
Operation Mode	Run Time (fully charged)
1 – Rotate	9hrs
2 – Quad Flash	9hrs
3 – Single Blink	60hrs
4 – Alternating Blink	9hrs
5 – SOS	14hrs
6 – Constant On High	5hrs
7 – Constant On Low	35hrs
8 – 2 LED Flashlight	9hrs
9 – 4 LED Flashlight	6hrs

Supplied with: Mains, vehicle chargers and charging case



RATCHET WRENCHES

H ASSORTED EQUIPMENT

WRENCHES – STANDARD & UTILITY

DOUBLE SIDED PODGER RACTHET WRENCHES

Model No.	Size (mm A/F)	Opening	Length (mm)
64110	10 x 12	12 POINT	240
64111	11 x 13		240
64114	14 x 15		280
64117	17 x 19		315
64118	18 x 24		360
64119	19 x 24		360
64121	21 x 23		360
64122	22 x 24		360
64124	24 x 30		360
64127	27 x 30		425
64128	27 x 32		425
64132	32 x 36		425
64135	38 x 41		485
64146	46 x 50		485
61624	½" Male to ¾" Male	n/a	400

To order pawl and spring add "R" to the end of the part number
(eg. 64117-R)



UTILITY RATCHET WRENCHES

Model No.	Size (mm A/F)	Notes	Length (mm)
61317-6P	13 x 17	6 Point Hex with Acetate Handle for IPC's	180
61317-6PL	13 x 17		280
BY3	17 x 19 x 24 x 30 (4 in 1 spanner)	Ideal for Pole Work	285

#61317-6P



#61317-6PL



#BY3 (Made in Japan)



#19



#30



#24



#17



MODEL No. SB-3UK IPC/SHEAR BOLT IMPACT WRENCH

FEATURES

The SB-3UK is a battery operated impact wrench especially designed to torque down the shear bolts or IPC's (Insulation Piercing Connectors) for electrical connection use.

The tool features a unique shape to reduce its length for easy access to tight space. It develops 196 Nm of torque and features variable speed to 2,200 rpm. As it was designed for electrical work, there is no opening for air circulation.

Continuous use will overheat and damage the tool. Rest the tool after 20 bolts are sheared.

DETAILS

- Battery operated impact wrench for shear bolts
- 196Nm torque
- Variable speed to 2,200 rpm
- 1/2" square drive
- Short body length for tight space application
- Well balanced and light weight
- 14.4V battery
- Quality backed by ISO 9001 Quality Management System

SPECIFICATIONS

Torque	196 N.m
Speed	0~2,200 rpm
Motor	14.4 VDC
Socket Retainer	1/2" square drive
SIZE	350 (L) x 180 (H) x 75 (W) mm
WEIGHT	2.2 kg

ORDERING INFORMATION

(See page A10 for Battery & Charger details)

MODEL NO: SB-3UK (BB)

For lithium-ion batteries

Includes: Wrench Unit, Plastic Carrying Case, 2 Batteries (BP-80) and 12/24VDC-230VAC Charger (CH-90DCC-A)

IZUMI



BATTERY IMPACT WRENCH

MODEL NO. ROBOIMPACT (MADE IN USA)

FEATURES

Extremely small, light-weight, powerful and durable. This tool is the lightest weight-to-power cordless impact in the world!

The light weight combined with a proprietary cushioned handle and "pistol" design will increase job efficiency, reduce operator fatigue, and allow use in environments where hoses and cords are unsafe or inconvenient.

2 DRILLS IN 1

Perfect for utility and other heavy industry. Ideal for drilling hard wood power poles, crossarms, wharf/bridge structures, tightening nuts and bolts.

SPECIFICATIONS

Model No	ROBOIMPACT
Kit Contains	Tool, Two Batteries, Impact Adaptor, (Model No. 2801) 230VAC Charger & Carry Case
Voltage	18VDC
Nm of Torque	340+
Impacts Per Min	2400+
Free Speed	1950
Chuck	7/16" Hex Quick-Change
Cordless Battery	RoboPak 18VDC
Charging Options	AC or DC
Weight of Tool & Battery (kg)	2.95

Refer to page C8 for impact adaptors
Refer to page C7 For bushranger impact augers



Model No. 2801
1/2"-7/16" Sq
Drive adaptor
included



MODEL NO 2736 (BB) IMPACT WRENCH

Offers superior power, performance, versatility and durability. Unmatched in performance, the Cordless Roboimpact is the most powerful tool of its kind in the world. Whether overhead, on the ground, or even underground, it can be used in the most demanding drilling and hardware applications.



FEATURES

- Heavy-Duty Proprietary Motor and Gearing - Powerful 30 amp reversible motor provides in excess of 2500 rpm of torque for drilling and hardware applications.
- Hex Quick-Change - Accepts standard 7/16" hex bits and 1/2" Impact Adaptor (#2801)
- Extended Run Time Hilti Battery - Powered by state-of-the-art Hilti 36 volt battery. Advanced technology provides greater working capacity and longer cycle life. Battery can also be used with Hilti TE 6-A 36v Cordless Rotary Hammer Drill.
- Military Switch and Handle - Reversing single speed switch located on high strength, impact resistant handle.
- Two Position Side-Handle - For increased comfort and control.

SPECIFICATIONS

Model No	2736(BB)
Voltage	36V
Nm of Torque	515+
Impacts Per Min	2500+
Chuck	7/16" quick-change
Cordless Battery Capacity	3.0Ah Li-ION
Dimensions (mm)	438 x 82 x 280
Includes	Tool (#2736), 2 Batteries Li-ION (#2756), 230VAC Charger (#4372), Impact Adaptor Drive (#2801) & Case
Weight of Tool & Battery (kg)	6.15

Refer to page C8 for impact adaptors

Refer to page C7 For bushranger impact augers



I. CABLE PREPERATION

I1 – I14

ACSR CONDUCTOR TRIMMER	I1
UNIVERSAL CABLE STRIPPER – INTERCABLE	I2
OUTER SHEATH CABLE STRIPPER – INTERCABLE	I3
OUTER & INNER SHEATH STRIPPER – INTERCABLE	I4
OH CABLE INSULATION STRIPPER – INTERCABLE	I5
SEMI CONDUCTOR REMOVAL TOOL – INTERCABLE	I6
CHAMPER & INSULATION CUTTING – INTERCABLE	I7
UNIVERSAL STRIPPING TOOL – INTERCABLE	I8
CABLE PREPERATION TOOLS	I9-I10
INSLUATION STRIPPER & SEMI-COM SCORER – SPEED SYSTEMS	I11
CHAMPER TOOLS – SPEED SYSTEMS	I12
INSULATION REMOVER – IZUMI	I13
NOTES	I14

ACSR CONDUCTOR TRIMMER

MODEL NO. PSC-1 ACSR TRIMMER



FEATURES

The PSC-1 ACSR Trimmer quickly and accurately removes the aluminium stranding from around the steel core of ACSR conductors. Made of an aluminium alloy, this tool is lightweight and durable. The cutter, bushing holder and case are sold as one unit.

The case has slots to store 10 bushings while the 11th bushing can be stored in the tool.

SPECIFICATIONS

Model No	Conductor Name	OD in mm
87CHERRY	CHERRY	14.30
87GRAPE	GRAPE	17.50
87PANTHER	PANTHER	21.00
87LEMON	LEMON	21.00
87LYCHEE	LYCHEE	22.80
87BEAR	BEAR	23.45
87LIME	LIME	24.50
87MANGO	MANGO	27.00
87ZEBRA	ZEBRA	28.62
87ORANGE	ORANGE	29.30
87OLIVE	OLIVE	31.50

Weight 4.3kg

DETAILS

OTHER SIZE BUSHES TO SUIT THE PSC-1 CAN BE MANUFACTURED TO ORDER

NOTE: BUSHES ARE FULLY INTERCHANGEABLE WITH RIDGID #87 ACSR TRIMMER BUSHES.

REPLACEMENT CUTTER WHEEL SUIT PSC-1—# 54270

FULL RANGE OF SPARE PARTS SUIT PSC-1 ARE AVAILABLE ON REQUEST.



AMS SERIES UNIVERSAL CABLE STRIPPERS
(MADE IN ITALY)

FEATURES

For stripping the outer sheath from all MV and LV cables.
Suitable for work on live parts up to 1000V AC and 1500V DC
(model AMS 1000V).

Designed to strip up to 5mm thick outer sheaths from all
MV and LV cables with minimum 25mm outside diameters
(limitation only for circular cuts). Suitable for work on live parts
up to 1000V AC and 1500V DC (Model AMS 1000V - Model No.
17130 only).

SPECIFICATIONS

- Longitudinal and circular cuts
- Designed to strip both ends and in the middle
- Depth adjustment from 0 to 5mm.
- Stripping without damaging conductor or screen
- Interchangeable two-sided blade
- Easy stripping down to -10°C
- Snap closure mechanism (AMS only)
- Model AMS 1000V is also designed for very low temperature
uses, down to -40°C

Applications

LV cable with PVC insulation



MV cables with polyethylene insulation



MV cables with PVC outer insulation



Telecommunications cables



intercable



CABLE PREPARATION

Picture			
Model No	AV6220	17130	AV6299
Details	AMS	AMS 1000V Insulated	AMS Replacement Blade
Supplied With	Sturdy case to contain the tool and its instructions for use		
Wt (kg)	0.2	0.2	0.1
Dimensions (mm)	160x35x65	170x50x75	N/A

OUTER SHEATH CABLE STRIPPER

OUTER SHEATH CABLE STRIPPER (MADE IN ITALY)

intercable

Model No. AE6210 (MSU)

FEATURES

Designed to strip outer sheaths with a thickness up to 5mm of LV/MV cables with outside diameters from 25 to 60mm.

SPECIFICATIONS

- Circular and helical cuts
- Positioned on the cable using a vice system
- Operates by simply rotating it around the cable axis
- Designed to strip both ends
- Cut depth from 0.5 to 5mm
- Interchangeable blade
- Easy stripping down to -10°C

Model No.	AE6210
Weight (kg)	0.9
Dimensions (mm)	290 x 110 x 90
Replaceable blade	AE6219

ITEMS INCLUDED IN KIT

- Special MSU cable stripper
- Cable knife - AV3910
- Imitation leather case



AIS OUTER & INNER CABLE SHEATH STRIPPER

AIS SERIES OUTER & INNER CABLE SHEATH STRIPPER

intercable

Designed to cut and remove the outer plastic sheath

- Cuts and removes outer plastic sheaths up to 50mm thick, on LV & MV cables having diameters within the range of 16-52mm
- Ideally suited for removal of outer waterproof sheathing on MV cables
- Hooked blade for removal of the cut sheath
- Purpose built tool for making round and longitudinal cuts with minimal effort
- Ratchet lever moves tool in both directions longitudinally with no danger of personal injury
- 2 component handles
- Can be used down to -40°C
- Colour coded and easy to change plastic spacer rings allow the cutting depth to be adjusted in steps of 0.5mm
- Complies to EN 60900 and useful for live work up to 1000VAC



17197



17194



Set Consists of;

- AIS Cable Stripper
- Plastic Case
- Longitudinal feed lever
- Plastic Spacer Rings, for cutting depth adjustment 0.5-5mm
- 2 spare screws to secure the cutting blade

Model No	Description	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
17190	Cable Stripper 16mm (Set)	390	330	105	1.95
17192	Replacement blade				
17194	Feed lever				

OH CABLE INSULATION STRIPPER

CABLE PREPARATION TOOLS (MADE IN ITALY)

intercable

MODEL NO. 17170 OVERHEAD CABLE INSULATION STRIPPER



Norm: EN 10020    EN/IEC 60900:2004

Designed to strip single core cables 6 - 150 mm². Suitable for live working up to 1000VAC or 1500DC.

TECHNICAL

- Stripping length adjustable from 20-80mm
- Insulated handle with bayonet connection
- Stripping inserts for cross sections from 6-150mm²
- Cutting direction indicated by an arrow on the insert
- Interchangeable, hardened blade
- Insulation in compliance with EN/IEC 60900:2004
- Can be used to -40°C

Model No.	Description	Dimensions (mm)	Wt (kg)
1717 0	FSI 150 Complete Set	235x200x55	0.90
Above Kit Contents & Spares			
1717 1	Insulated Handle	-	-
1717 016	Stripping Insert 16mm ²	-	-
1717 025	Stripping Insert 25mm ²	-	-
1717 035	Stripping Insert 35mm ²	-	-
1717 050	Stripping Insert 50mm ²	-	-
1717 054	Stripping Insert 54.6mm ²	-	-
1717 070	Stripping Insert 70mm ²	-	-
1717 9	Spare Blade Each (3 in kit)	-	-
1717 0	Hollow Hex Wrench 2.5mm	-	-
128935	Plastic Case & Foam Insert	-	-
Additional Inserts Also Available			
1717 006	Stripping Insert 6mm ²	-	-
1717 010	Stripping Insert 10mm ²	-	-
1717 095	Stripping Insert 95mm ²	-	-
1717 150	Stripping Insert 150mm ²	-	-

MODEL NO. AE 6200 INSULATED WIRE STRIPPER

Designed to strip flexible single-pole cables with 2.5/4/6mm² cross sections and rigid single-pole cables with 10mm cross sections. Suitable for live working up to 1000VAC or 1500VDC.

TECHNICAL

- Stripping depth 20mm maximum
- Blade built into the tool
- Cutting direction indicated by an arrow
- Insulation in compliance with EN/IEC 60900:2004
- Range of application to -10°C
- Supplied in nylon case



Model No.	Description	Dimensions (mm)	Wt (kg)
AE 6200	FSI Set	170x55x50	0.15

Norm: EN 10020    EN/IEC 60900:2004

CABLE PREPARATION TOOLS (MADE IN ITALY)

intercable

MODEL NO. 1722 1 SEMI-CONDUCTOR
SCREEN REMOVAL TOOL

For removal of the vulcanised semi-conducting screen up to 1.5mm thick on medium and high voltage cables with thicknesses of insulation in the range 10-52mm.

TECHNICAL

- Anodised Aluminium construction provides an extremely light and robust tool
- Contact surfaces are coated to provide low frictional resistance
- The change over lever allows activation/de-activation of axial movement
- Removal of the screen can start or stop at any point required
- Axial movement in both directions possible
- The shape of the blade ensures that the end of the screen layer will always be conical
- Blade of tempered steel
- Cutting depth using special blade with stripping depth with cone from 0 till 1,5 mm adjustable
- Cutting depth can be limited or blocked
- Very small rotation of 220mm OD max.
- Shaved screen deflected away using the guiding device on the tool



Model No.	Description	Dimensions (mm)	Wt (kg)
1722 0	FBS Complete Set	235x200x55	0.80
Above Kit Contents (Components not sold separately)			
1722 1	Stripper Only	-	-
AG1013	Silicone Gel	-	-
1710 0	Hollow Hex Wrench 2.5mm	-	-
128930	Plastic Case	-	-
Spares			
1714 2	Replaceable Blade	-	-

CHAMFER & INSULATION CUTTING

CABLE PREPARATION TOOLS (MADE IN ITALY)

intercable

MODEL NO. 17240 CHAMFER CUTTER

To make chamfer cuts of the primary insulation, of medium-voltage-cables having primary insulation diameters of 15-60mm.

TECHNICAL

- Anodised Aluminium construction provides an extremely light and robust tool
- For chamfering the primary insulation (2 chamfers of 60°)
- The clamping system locks the tool precisely on the cable
- Silicone Gel is not required
- Replaceable hardened steel blade
- Rotation diameter 220mm maximum

Model No.	Description	Dimensions (mm)	Wt (kg)
1724 0	UFS Cutter with Case	170x50x90	0.39
Above Kit Contents (Components not sold separately)			
1724 1	Cutter Only	-	0.37
Spares			
1724 2	Replacement Blade	-	-
1710 0	Hollow Hex Wrench 2.5mm	-	-

MODEL NO. 17230 INTERNAL INSULATION CUTTING TOOL

For removal of the primary insulation up to 15mm insulation thickness on medium voltage cables (6-45kV) with diameters from 15-52mm.

TECHNICAL

- Anodised Aluminium construction provides an extremely light and robust tool
- Contact surfaces are coated to provide low frictional resistance
- The clamping system locks the tool precisely on the cable
- For removal of insulation at terminations
- Spiral or straight cut possible
- Forward feed can be adjusted in 5 steps
- Cutting depth selectable 0-15 mm
- Any required length of insulation can be removed. Insulation removal can be terminated at any selected point
- Replaceable hardened steel blade
- Rotation diameter max 220 mm

Model No.	Description	Dimensions (mm)	Wt (kg)
1723 0	IMS II Complete Set	275x220x65	1.00
Above Kit Contents (Components not sold separately)			
1723 1	Cutter Only	-	-
AG1013	Silicone Gel	-	-
1710 0	Hollow Hex Wrench 2.5mm	-	-
128940	Plastic Case with Foam Insert	-	-
Spares			
1723 2	Replacement Blade	-	-



CABLE PREPARATION TOOLS (MADE IN ITALY)

intercable

MODEL NO. AV6300 UNIVERSAL CABLE STRIPPING TOOL 10/20/30KV TECHNICAL

- For stripping internal insulation coatings (MS cables) with stranded conductors
- Handle adjustable according to length of stripping replaceable cutter heads for different cross sections of insulation coatings
- Replaceable cutter heads for different wire cross sections or insulation coatings
- Custom design available
- On demand special inserts for special cable types.
- Not an insulated tool



Model No.	Description	Cable Voltage (KV)	PE Coating (mm) OD	Conductor (mm) OD	WT (kg)
AV6300	Stripping Handle (Accepts all strip inserts below)	-	-	-	0.20
AV6399	Replacement Blade Only	-	-	-	-
1716021	Strip Insert Only 25mm ²	10	15.7	7.1	0.08
1716024	Strip Insert Only 25mm ²	10	17.5	8.2	0.08
1716002	Strip Insert Only 25mm ²	10	19.0	10.7	0.08
1716013	Strip Insert Only 25mm ²	10	22.3	13/15	0.08
1716003	Strip Insert Only 25mm ²	10	22.5	13.3	0.08
1716027	Strip Insert Only 25mm ²	10	23.4	14.3	0.08
1716020	Strip Insert Only 25mm ²	10	25.4	16.2	0.08
1716006	Strip Insert Only 25mm ²	10	27.8	18.4	0.08
AV63025	Strip Insert Only 25mm ²	20	19.3	6.3	0.08
AV63035	Strip Insert Only 35mm ²	20	20.7	7.4	0.08
AV63050	Strip Insert Only 50mm ²	20	21.6	8.3	0.08
AV63070	Strip Insert Only 70mm ²	20	23.3	10.1	0.08
AV63095	Strip Insert Only 95mm ²	20	25.0	11.6	0.08
AV63120	Strip Insert Only 120mm ²	20	26.6	13.4	0.08
AV63150	Strip Insert Only 150mm ²	20	27.9	14.4	0.08
AV63185	Strip Insert Only 185mm ²	20	29.8	16.5	0.08
AV63240	Strip Insert Only 240mm ²	20	32.0	18.6	0.08
1716011*	Strip Insert Only 150Emm ²	30	29.8	14.7	0.08

* Designed for single conductor, not stranded

MODEL NO. AV 6320 STRIPPING TOOL SET TECHNICAL

- For helical stripping of the internal insulation coatings of HV-Cable
- Handle adjustable according to length of stripping
- Replaceable cutter heads for different wire cross sections or insulation coatings - only for 20kV cable
- 10kV version also available



Model No.	Description	Dimensions (mm)	WT (kg)
AV6320	Stripping Tool Set with 11 Parts	340x260x70	1.80
KIT CONTENTS & SPARES			
Model No.	Description	Model No.	Description
128920	Plastic Case w/Foam	130007	Strip Insert Only 70mm ²
125200	Stripping Handle	130009	Strip Insert Only 95mm ²
244500	Universal Cable Stripper	130012	Strip Insert Only 120mm ²
130002	Strip Insert Only 25mm ²	130015	Strip Insert Only 150mm ²
130003	Strip Insert Only 35mm ²	130018	Strip Insert Only 185mm ²
130005	Strip Insert Only 50mm ²	130024	Strip Insert Only 240mm ²

CABLE PREPARATION TOOLS

CABLE PREPARATION TOOLS

CABLE END STRIPPING TOOL FOR CCT (COVERED CONDUCTOR THICK)



Model No	IBST5024
Description	<ul style="list-style-type: none">• Used for removal of core insulation.• Removes insulation up to 5.5mm thick.• Cable range from 12-32mm.• Long Life Blade.• Instructions included.

NOTE: Tool is not designed to strip mid-span conductor

ABC END STRIPPER



Model No	ABC95
Model No	ABC150
Description	For stripping aluminium aerial bundled conductor 95mm ² (ABC95) and 150mm ² (ABC150). NOTE: Conductor must be clean and round using circular cutters or hacksaw. Instructions Included.

CABLE PREPARATION TOOLS



Model No	HCS40	
Description	For stripping of various round cables up to 40mm diameter. Supplied with standard sheath blade. Scoring and insulation (bevel) blades also available. -Effective on water block cables. Mid span and end stripping. Instructions Included.	



Model No	IR	IR-LV
Description	Ripper stripper or safe removal of cable sheaths. -Pan head stops damage to inner core and accidental cuts to the user. A safer alternative to using a knife. Instructions Included.	
Replacement Blade Model No	IRB	IRBLV



Model No	HSCS1342	
Description	Semi-Con scorer for safe stripping of semi-conductor layer from insulation. -Very fine blade adjustment to prevent unnoticed damage to insulation. Supplied with spare blades and spare hex keys for blade changing. Instructions Included.	

SEMI-CON SCORER

CABLE PREPARATION TOOLS

1542-2CL SERIES INSULATION STRIPPER

FEATURES

The 1542-2CL Series Stripper is designed to remove PE, XLP, EPR and other types of insulation from high voltage power cable.

- Strips Cable insulation
- Precise blade depth adjustment
- Maximises reliability of installation
- Provides greater speed and increased safety
- No bushings required
- Instructional CD and video available

SPECIFICATIONS

Cable O.D. Range 12.7 - 44.5 mm

MODELS AND ACCESSORIES

Model/Type	Description
1542-2CL - Speed Stripper	Tool with Wedge Blade Installed, spare Straight Blade
1542-2CL-1 - Speed Stripper	Tool with Wedge Blade installed, spare Wedge Blade
1542-2CL-2 - Speed Stripper	Tool with Straight Blade installed, spare Straight Blade
1562 - Wedge Blade (XLP)	
1581 - Straight Blade (EPR)	
1650X - Tool Stop	
1590X - Small cable adapter for cables 8.0 - 12.7 mm	
1646X - Scale gauge measures stripback	
Split Handle - Optional folding handle	add S to catalog number (i.e. 1542-2CL-1S)
2689 - Chamfering Tool/Scale Gauge	[2672 Replacement Chamfering Blade]



SEMI-CON STRIPPER

1700 Series Adjustable Blade Scorer

FEATURES

The 1700 Series Semi-Con Scorers have adjustable blade depth for scoring (scribing) the semi-conductive shield of high-voltage cable so the semi-con can be removed without nicking or damaging the cable insulation.

- Adjustable blade depth 0.03 - 2.54mm
- Square, and spiral cut
- Scores (scribes) semi-con without damage to insulation
- Leaf springs maintain constant pressure during operation
- Instructional CD and video available

SPECIFICATIONS

Cable O.D. 12.7 - 50.8 mm

MODELS AND ACCESSORIES

Model/Accessory	Description
1700 - Adjustable Blade Scorer	with square cut/spiral cut
1700-SS - Adjustable Blade Scorer	with square cut/spiral cut and dial locking set screw
1700-LC - Adjustable Blade Scorer	with square cut/ spiral cut - Saddle relief for close-in cut
1700-SS-LC - Adjustable Blade Scorer	with square cut/spiral cut and dial locking set screw - Saddle relief for close-in cut
1678 - Scoring Blade	Replacement Blade - all tools



CHAMFER TOOLS

CT-1 CHAMFER TOOL

FEATURES

The CT-1 Chamfering Tool cut a 45 degree bevel on the insulation of cables with an O.D. of 12.7 – 34.9mm.

- Chamfers cable end at 45 degrees
- For use on 4.4 – 8.7mm insulation (15kV thru 35kV)
- Prepares edge of cable insulation for pre-molded termination
- Adjustable - no adapters or bushings required

SPECIFICATIONS

Cable O.D. 12.7 - 34.9mm

MODELS AND ACCESSORIES

Model/Accessory

CT-1 - Chamfering Tool

2672 - Replacement Blade



CT-2 CHAMFER TOOL

FEATURES

The CT-2 Chamfering Tool cut a 45 degree bevel on the insulation of cables with an O.D. of 24.1 – 69.9mm.

- Chamfers cable end at 45 degrees
- For use on 4.4 – 8.7mm insulation (15kV thru 35kV)
- Prepares edge of cable insulation for pre-molded termination
- Adjustable - no adapters or bushings required

SPECIFICATIONS

Cable O.D. 24.1 - 69.9 mm

MODELS AND ACCESSORIES

Model/Accessory

CT-2 - Chamfering Tool

2672 - Replacement Blade



INSULATION REMOVER

INSULATION REMOVER

MODEL NO. NP-400

Peels insulation jacket of the conductor.

FEATURES

The NP-400 can peel insulation from a conductor with an O.D. of 10 to 32 mm and a maximum insulation thickness of 3 mm.

This tool will not work on semiconductors since the cutting blade uses a scoop design to pull insulation away from the wire strands.

It is most commonly used on jacketed aluminum and copper cables for both underground and overhead.

The NP-400 can handle mid-span peeling as well as cable end preparation. A simple rotation and hand force is all it takes to remove the jacket.

SPECIFICATIONS

10 mm to 32 mm O.D. insulated cable (Vinyl or polyethylene jackets) with insulation thickness of 1.5 mm to 3 mm

SIZE 80 (W) x 200 (L) mm

WEIGHT 740g

DETAILS

It is necessary to change the blade depth according to the insulation thickness.

Operating instructions:

- 1 Set the blade depth by rotating the adjusting knob.
- 2 Set the conductor in the peeler.
- 3 Start peeling by rotating the peeler around the conductor.
- 4 Apply hand force against the peeling direction to end the peeling.

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NOTES

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J. HOLE MAKING & BENDING

J1 – J42

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HAND HYDRAULIC PUNCH KITS

MODEL NO. SH-5PDG HYDRAULIC HAND PUNCH

Punching capacity : 90mm diameter hole on 3.2mm thickness mild steel.
40.5 diameter hole on 3.2mm thickness stainless steel.

FEATURES

The SH-5PDG is a portable hand hydraulic punch with swivel head for easy access to tight work areas.

DETAILS

- Self-contained hand hydraulic punch
- Ideal for switchboards
- Slim design

SPECIFICATIONS

Model No	SH-5PDG
Output force (kN)	50
Rotation	2 Way 360 Degree
Case Included	Steel
Weight (kg)	2.4

MILD STEEL MODEL NO. SH-5PDGISOMS

INCLUDES:

- 1 SH-5PDG Hand hydraulic punch
- 2 Draw studs (3/8" & 3/4") Model No. 10-04 & 10-05
- 3 Collars/Spacers (Large, Medium, Small, Ex-small)
- 1 Steel carrying case
- 7 Round Punching Dies Shark Brand 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm Diameter
(3 crown style ISO)
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14

STAINLESS STEEL MODEL NO. SH-5PDGISOSS

INCLUDES:

- 1 SH-5PDG Hand hydraulic punch
- 3 Draw studs (3/8", 7/16" & 3/4") Model No. 10-04, 29451 & 29452
- 4 Collars/Spacers (Large, Medium, Small, Ex-small)
- 1 Steel carrying case
- 7 Round Punching Dies Shark Brand 16.2, 20.4, 22.5, 25.4, 32.5 & 40.5mm Diameter
(twin cutting edges ISO)
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14

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MODEL NO. SH-10

CAPACITY

- 104 mm diameter hole on 3.2 mm thickness mild steel
- 50.8mm diameter hole on 3.2 thickness stainless steel

FEATURES

PUNCHING CAPACITY:

The SH-10 is a hand pump with remote punching head on hose lead for flexibility.

DETAILS

- Ideal for switchboards
- Slim and manoeuvrable design

SPECIFICATIONS

Model No	SH-10
Output force (kN)	87
Oil Required (cc)	35
Dimensions (mm)	63 (dia) x 125 (H)
Weight (kg)	1.85 (SH-10 Cylinder) 4.8 (Cylinder, pump & hose)

MILD STEEL MODEL NO. SH-10ISOMS

- 1 SH-10 Hand hydraulic punch
- 2 Draw studs (3/8" & 3/4") Model No. 10-04 & 10-05
- 3 Collars/Spacers (Large, Medium & Small)
- 1 Steel carrying case
- 7 Round Punching Dies Shark Brand 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm Diameter (3 crown style ISO)
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14

STAINLESS STEEL MODEL NO. SH-10ISOSS

- 1 SH-10 Hand hydraulic punch
- 3 Draw studs (3/8", 7/16" & 3/4") Stainless Steel Model No. 10-04, 29451 & 29452
- 3 Collars/Spacers (Large, Medium & Small)
- 1 Steel carrying case
- 7 Round Punching Dies Shark Brand 16.2, 20.4, 22.5, 25.4, 32.5 & 40.5 & 50.8mm Diameter (twin cutting edges ISO)
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14



HAND HYDRAULIC PUNCH KITS

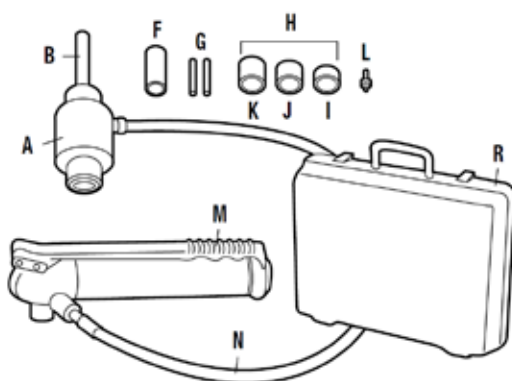
HYDRAULIC PUNCH KIT (MADE IN USA)

- Fast, easy and simple to operate.
- Compact design for field use on construction sites and maintenance jobs.
- Punches 10 times faster than wrench method.
- Can be used with most standard round Slug-BusterR and Slug-Splitter SC™ punches along with Shark punch and dies.
- Can be used with non-round punches (adapter may be required).
- 3-foot hose
- Powerful 11-ton hydraulic ram.

Model No	Description	Wt (kg)
15906	Driver, Hand Pump, Draw Studs and Spacers and Plastic Case	10.9

Ram and Hand Pump Hydraulic Driver Parts Identification

Model No	Item #	Description
17091	A	Ram (includes Item B)
10109	B	Draw Stud-3/4" x 8"
03170	F	Punch Sleeve
20963	G	Draw Stud-3/8" x 7.9"
15908	H	Spacer Group (includes Items I, J and K)
03248	I	Spacer-Short
03249	J	Spacer-Medium
06904	K	Spacer-Long
34410	L	Kwik StepperR Step Bit 1/2"
13284	M	Hydraulic Hand Pump
06302	N	High Pressure Hose-1/4" x 3'
30206	R	Plastic Case



Example of kit only
(Punch and dies not included)

MODEL No. REC-55PDF

FEATURES

The REC-5PDF is a battery operated punch driver with swivel head for easy access to tight enclosed control or switchboard panels.

The REC-55PDF features a punching capacity of 3.2 mm thick mild steel with 90mm holes.

SPECIFICATIONS

Ram stroke	18 mm
Motor	14.4 VDC
Reservoir capacity	55 cc
Output force	7.5 tonne
SIZE	355 (L) x 240 (H) x 75 (W) mm
WEIGHT	4.4 kg (inc. battery)

The number of holes per battery charge for 90mm OD hole on 3.2mm steel is approx. 55 with (BP-80 BATTERY)

Refer pages J12-J22 for available punches and dies.

ACCESSORIES

Double moulded carrying case available upon request

ORDERING INFORMATION

(See page A10 for Battery & Charger details)

MODEL REC-55PDF(BB)

Includes: Battery Puncher, Shoulder Strap, Plastic Carrying Case, Draw Studs 3/4" & 3/8", Collars (L, M, S, SS), 1 x Short Stud Adaptor (3/4" x 3/8") 2 Batteries (BP-80) and 12/24VDC-240VAC Charger (CH-90DCC-A), Includes: Crimper with case

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REC-5PDF shown with BP-70EI



Punches sold separately

BATTERY MULTI TOOL

MODEL No. REC-5200MX

FITTED WITH 200AT-410 12 TONNE CRIMP HEAD



PULL PIN TO OPEN
HINGED HEAD



SPECIFICATIONS

Motor	14.4 VDC
Reservoir capacity	100 cc
Force at die face	127 kN
Size	356 (L) x 326 (H) x 70 (W) mm
Weight	5.8kg with BP-80 Battery (without crimp head)

Accepts existing 12 ton U-type dies
Maximum Capacity 300 mm AL & CU
PLEASE NOTE: Add (BB) to the model number suffix
for lithium-ion batteries e.g. REC 5200MX (BB)
Includes: Battery Tool, Shoulder strap, Carrying case,
2 Batteries (BP-80) and 12/24VDC-240VAC Charger
(CH-90DCC-A)
(INTERCHANGEABLE HEADS NOT INCLUDED)

MODEL No. 200AT-AP18 Angle Steel Puncher attachment to suit REC – 5200MX

Punching capacity	17.5 mm Dia Holes in 6mm thick steel
Size	186 x 130 x 67 mm
Weight	3.8 kg
Includes Punches	10.5, 13.5 & 17.5mm OD

Approximately 82 holes punched per battery charge

MODEL No. 200AT-9PD Knock out Puncher attachment to suit REC-5200MX

Punching capacity	Up to 63.5mm 3.2mm thick Stainless Steel and (115.5mm) diameter hole on 3.2mm thick Mild Steel.
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Approximately 50 Holes per battery charge

DETAILS

- Punch & die, Draw Studs & Spacer Collars are the same as those used for SH-10.
- 200AT-9PD comes with Draw Studs & Spacer Collars.

***Refer pages J12-J22 for punches and dies.**





FOR STAINLESS STEEL, MILD STEEL, BRASS, ALUMINIUM ETC TO 3.2MM THICK

MODEL No. 200AT-410 12Tonne Crimp Head attachment to suit REC-5200MX

Opening between Die faces 17mm
Accepts existing 12 ton U-type dies
(See pages A17-A18 for 12T Dies).
Maximum Capacity 300 mm AL & CU
Weight 2.4kg

MODEL No. 200AT-50YC Cable Cutter attachment to suit REC – 5200MX

Cutting capacity: Up to 50mm OD cable (including insulation)
Cuts nonferrous cables only.
Approximately 40 cuts per charge
Weight: 1.0kg

(See Page A10 for Battery and Charger Details)

MODEL No. 200AT-S16 Re-bar and Guy Strand Cutter attachment to suit REC – 5200MX

Cutting capacity	Number of cuts/charge
16mm rebar	120
16mm soft steel bar	120
13mm stainless steel bar	105
16mm Guy Strand	105

MODEL No. 200AT-13WT Threaded rod cutter attachment to suit REC – 5200MX

Cutting capacity	Number of cuts/charge
M10 or 3/8 BSW Steel Threaded Rod	105
Stainless Steel	52
M12 or 1/2 BSW Steel Threaded Rod	82
Stainless	42

Comes with 13WT-06 M12 Blade Set
OPTIONAL BLADE SETS
13WT-07 M10, 13WT-02 3/8 BSW, 13WT-05 1/2 BSW

HYDRAULIC PUNCH – SINGLE ACTING HIGH PRESSURE

MODEL No. SH-70B (MADE IN JAPAN)

FEATURES

The portable SH-70B punch was designed to punch holes through 13mm mild steel, aluminium and copper with a 20.5mm maximum hole.

A stripper guide extends on either side of the ram to strip the material after punching. The stripper guide also clamps the punch into place to free operators hands for safety.

The SH-70B comes complete with four sets of Mild Steel punch and die sizes, 10.5mm, 13.5mm, 17.5mm and 20.5mm. This powerful punch has a new designed support stand, comes with a #70E-08 cap nut tightening pin and steel carrying case.

Keyed shaft facilitates slotted and squared punches.



Steel



Copper

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SPECIFICATIONS

Model No	SH-70B
Operating Pressure (bar)	700
Output force (kN) @ 700bar pressure	304
Oil Required (cc)	82
Throat Depth (mm)	70
Dimensions (mm)	360 (H) x 210 (W) x 95 (D)
Weight (kg)	14
Material Thickness (mm)	13

PUNCH & DIES

Refer below table for punch and die kits available, some half sizes are stocked and are available upon request. 20.5mm is the maximum hole size and 6mm is the minimum hole size.

Suffix "ST" is for Steel and "CU" is for Copper

Model No.	Description	Model No.	Description
SH-70B6PDCU	6MM PUNCH AND DIE CU	SH-70B14PDCU	14MM PUNCH AND DIE CU
SH-70B6PDST	6MM PUNCH AND DIE ST	SH-70B14PDST	14MM PUNCH AND DIE ST
SH-70B7PDCU	7MM PUNCH AND DIE CU	SH-70B15PDCU	15MM PUNCH AND DIE CU
SH-70B7PDST	7MM PUNCH AND DIE ST	SH-70B15PDST	15MM PUNCH AND DIE ST
SH-70B8PDCU	8MM PUNCH AND DIE CU	SH-70B16PDCU	16MM PUNCH AND DIE CU
SH-70B8PDST	8MM PUNCH AND DIE ST	SH-70B16PDST	16MM PUNCH AND DIE ST
SH-70B9PDCU	9MM PUNCH AND DIE CU	SH-70B17PDCU	17MM PUNCH AND DIE CU
SH-70B9PDST	9MM PUNCH AND DIE ST	SH-70B17PDST	17MM PUNCH AND DIE ST
SH-70B10PDCU	10MM PUNCH AND DIE CU	SH-70B18PDCU	18MM PUNCH AND DIE CU
SH-70B10PDST	10MM PUNCH AND DIE ST	SH-70B18PDST	18MM PUNCH AND DIE ST
SH-70B11PDCU	11MM PUNCH AND DIE CU	SH-70B19PDCU	19MM PUNCH AND DIE CU
SH-70B11PDST	11MM PUNCH AND DIE ST	SH-70B19PDST	19MM PUNCH AND DIE ST
SH-70B12PDCU	12MM PUNCH AND DIE CU	SH-70B20PDCU	20MM PUNCH AND DIE CU
SH-70B12PDST	12MM PUNCH AND DIE ST	SH-70B20PDST	20MM PUNCH AND DIE ST
SH-70B13PDCU	13MM PUNCH AND DIE CU	SH-70BPDCU	COPPER PUNCH & DIES COMPLETE SET ONLY
SH-70B13PDST	13MM PUNCH AND DIE ST	SH-70BPDST	STEEL PUNCH & DIES COMPLETE SET ONLY

Replacement punch or die can be ordered separately but are sold in kits, contact us for more information for spares.

STRUCTURAL STUD PUNCH

- Punch 16 and 18 gauge structural studs in 5 seconds.
- Punch 200 holes per battery charge
- 2 batteries, charger included, tool with carry strap and carry case in kit eliminating downtime.
- Punches a 34.1 mm diameter hole in 1.5 mm thick steel. For use with Greenlee 05927 & 05928 bushings.
- Swivel head rotates 360° for use in tight corners.
- Pistol grip handle gives better leverage and reduces fatigue.
- Replaceable punch and die.
- Lightweight 4.2kg tool provides heavy-duty performance.



SPECIFICATIONS

Model No	Actual Hole Size	Weight	Length	Height	Capacity	Battery	Charger
	mm	kg	mm	mm	mm		
10308	34.1	4.2	381	298	1.5	12V, 2.0Ah, NiCd	12VDC
10309	34.1	4.2	381	298	1.5	12V, 2.0Ah, NiCd	230VAC

REPLACEMENT PARTS

Model No	Description	Model No	Description	Model No	Description	Model No	Description
12274	Carrying Strap	10303	Carry Case (MKESP710GL)	03047	230V Charger	21297	Replace Die
07063	Battery	03048	12V Charger	10344	Replace Punch (HE.9055)		

PLUMBER STUD PUNCH

- Punches 66.7 mm diameter hole in metal studs for professional-looking installation of 50mm gas pipes.
- Two-speed lever action for fast, easy punching of 1.0mm thick metal studs.
- 54 mm throat width fits over most studs and channels.
- High strength alloy aluminium c-frame and handle provides lightweight tool for easy handling 4.8 kg.
- Lever action punch retraction strips punch out of metal stud fast and easy. Patent #6,647,630



SPECIFICATIONS

Model No	Actual Hole Size	Weight	Length	Height	Capacity
	mm	kg	mm	mm	mm
06430	66.7	4.8	596	247	1.0

REPLACEMENT PARTS

Model No	Description	Model No	Description
08377	Punch for 06430	08375	Link
08379	Die for 06430	55316	Pin, Groove 7.7mm x 44.4mm

HAND STUD PUNCHES & BUSHINGS

METAL STUD PUNCHES



FEATURES

- Punch up 1.0mm steel studs in one stroke.
- Aluminium head provides strength with minimum weight, reducing operator fatigue.
- Contoured handle design gives better operator leverage and makes it possible to punch in tight places.
- Self-stripping design eliminates punch hang-ups.
- Automatically centres holes on standard studs.

SPECIFICATIONS

Capacity

22280 - 41.3 mm and wider studs.

1.0 mm thick steel studs.

21285 - 63.4 mm and wider studs.

1.0 mm thick steel studs.



Model No	Description	Weight (kg)
22280	22.2mm Diameter Stud Punch	3.2
21285	34.1mm Diameter Stud Punch	3.5
04006	Punch for 22280	
22286	Die for 22280	
24823	Punch for 21285	
21297	Die for 21285	
06015	Pin Kit	
36617	Link	
05932	Link & Pin Kit (22280/21285)	
21557	Compression Spring	

BUSHINGS FOR METAL STUD PUNCHES

FEATURES

- Triple lock design holds bushing securely.
- Locks securely into metal studs from 0.55mm to 2.5mm thick.
- Helps protect wire insulation from sharp edges of metal studs.
- Makes pulling smooth and easy by preventing hang-ups of cable on raw metal edges.



SPECIFICATIONS

Model No	Description	Weight (Kg)
22289	1,000 Bushings for 22.2 mm Diameter Hole	1.7
05928	1,000 Bushings for 34.1 mm Diameter Hole	7.0

MODEL 10415



MODEL No. 10415

FEATURES

- Punch up through 1.0mm steel studs in one stroke.
- Unique patented punch rolls the edge over for smooth installation of armoured cable; cable won't hang up.
- Contoured handle design gives better operator leverage and makes it possible to punch in tight places.
- Automatically centres holes on standard studs.

SPECIFICATIONS

Model No	Actual Hole Size mm	Weight kg	Length mm	Height mm	Capacity mm
10415	31.7	1.8	426	114	0.9

Model No	Description
10419	Punch for 10415



KNOCK OUT PUNCH & DIES (MADE IN JAPAN)

FEATURES

For use with hydraulic punch driver. A premium grade range of punch & dies manufactured from high grade tool steel for mild steel and premium grade tool steel for stainless steel ensuring accurate holes and long punch life.




SPECIFICATIONS

				
Description	Crown style punch		Twin cutting edges cuts slugs in half	
Type	MILD STEEL / BRASS / ALUMINIUM (Max 3.2mm thick)		STAINLESS STEEL / MILD STEEL / BRASS / ALUMINIUM (Max 3.2mm thick)	
ROUND Hole Size (mm)	Model No	Draw Stud Used	Model No	Draw Stud Used
16.2	PD-16.2MS	10-04 or 30043 - 3/8"	PD-16.2SS	30043 - 3/8" (1.6mm thick)
20.4	PD-20.4MS	10-04 or 30043 - 3/8"	PD-20.4SS	29451 - 7/16" (2.5mm thick)
22.5	PD-22.5MS	10-04 or 30043 - 3/8"	PD-22.5SS	29451 - 7/16" (2.5mm thick)
25.4	PD-25.4MS	10-04 or 30043 - 3/8"	PD-25.4SS	29451 - 7/16" (2.5mm thick)
32.5	PD-32.5MS	10-05 or 03294 - 3/4"	PD-32.5SS	29452 - 3/4"
40.5	PD-40.5MS	10-05 or 03294 - 3/4"	PD-40.5SS	29452 - 3/4"
50.8	PD-50.8MS	10-05 or 03294 - 3/4"	PD-50.8SS	29452 - 3/4"
63.5	PD-63.5MS	10-05 or 03294 - 3/4"	PD-63.5SS	29452 - 3/4"

PD-SET-MS – Mild Steel Punch & Die Set, Includes 7 Sizes: 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm

PD-SET-SS – Stainless Steel Punch & Die Set, Includes 7 Sizes: 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm

Picture	Type	BRASS / ALUMINIUM / ETC (Max 3.2mm thick)	MILD STEEL (2.5mm thick)	STAINLESS STEEL (Max 1.5mm thick)
	SQUARE Hole Size (mm)	Model No	Draw Stud Used	
	46	PD46-SQ	03S0036060	
	68	PD68-SQ	03S0036060	
	92	PD92-SQ	03S0036060	
	45	PD45-SQ	03S0036060	

PUNCHES & DIES – SLUG SPLITTER

KNOCK OUT PUNCH & DIES (MADE IN JAPAN)



For use with hydraulic punch driver. A premium grade range of punch & dies manufactured from high grade tool steel for mild steel, ensuring accurate holes and long punch life. **For mild steel up to 3.2mm thick.**

Round Hole Size (mm)	Model No	Draw Stud Used (UNF)
21.9	16	3/8
20.0	19	3/8
26.3	25	3/8
27.4	22	3/4
34.2	28	3/4
39.0	39	3/4
48.7	42	3/4
60.5	54	3/4
76.0	70	3/4
77.1	75	3/4
88.8	82	3/4
102.5	92	3/4
115.2	104	3/4



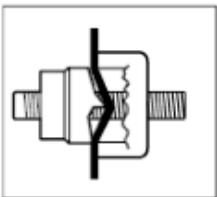
SLUG SPLITTER SC KNOCKOUTS



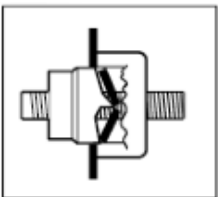
FEATURES

Slug-Splitter SC™ (Self-Centering) Knockout Punches

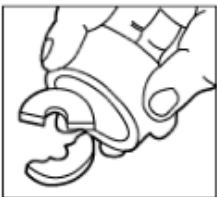
- Slug-Splitter SC™ heavy-duty punches are designed to punch up through 3.5 mm stainless steel.
- Unique slug-splitting design and tool steel construction easily punch 3.5 mm mild steel and stainless steel.
- Self-centering punch aligns itself on pilot hole. (Slug-Splitter SC™)
- No need to draw crosshairs or line up die alignment marks. (Slug-Splitter SC™)
- Unique punch profile also splits slugs for easier slug removal.
- Heavy-duty dies and stainless steel draw studs for longer life.
- Excellent abrasion resistance for punching fiberglass and plastic.
- Slug-Splitter SC™ punch units consist of: punch, die and draw stud. Check individual punch for specific capacity.
- Patent Pending for Self-centering Slug-Splitter SC™.



Unique Slug-Splitter SC™ punch design creases slug as the punch is drawn into the die.



Slug is split in half as punching operation is completed.



Split slugs fall free from the die and stud.

SPECIFICATIONS

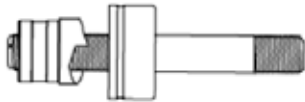
Application	3.5mm stainless steel, mild steel, fiberglass and plastic, etc
Operation	Operate with battery, hydraulic or high leverage ratchet driver only.

SELF CENTERING

Model No. Punch	Model No. Die	Hole Size \varnothing (mm)	Capacity Stainless Steel (mm)	Draw Studs	
Slug-Splitter SC (Self Centering) Knockout Punches					
28156	28157	28.3	3.5	31872	29452
36490	36489	30.5	3.5	31872	29452
28158	28159	34.6	3.5	31872	29452
28160	28161	43.2	3.5	31872	29452
28162	28163	49.6	3.5	-	29452
28165	28166	61.5	3.5	-	29452

STANDARD

Model No. Punch	Model No. Die	Hole Size \varnothing (mm)	Capacity Stainless Steel (mm)	Draw Studs	
04599	04598	16.2	2.5	29451	29451
31119	31128	18.6	2.5	29451	29451
31120	31129	20.4	2.5	29451	29451
04602	04601	25.4	3.5	31872	29452
04605	04603	32.5	3.5	31872	29452
31122	31135	37.0	3.5	31872	29452
04608	04607	40.5	3.5	31872	29452
31123	31131	47.0	3.5	-	29452
04611	04609	50.8	3.5	-	29452
31124	31132	54.0	3.5	-	29452
31125	31133	60.0	3.5	-	29452
04614	04613	64.0	3.5	-	29452



SLUG-BUSTER SC FOR USE WITH SPANNER OR WRENCH HAND OPERATED

FEATURES

- Save time and ensure accuracy!
Self-centering punch aligns itself on pilot hole.
- No need to draw crosshairs or line up die alignment marks.
- Unique punch also splits slugs for easier slug removal.
- US Patent No. 6,973,729



SLUG-BUSTER®

THRUST BEARING

SPECIFICATIONS

Model No	Hole Sizes	Weight (Unit)	Punch Only	Die Only	Stud Only
	\varnothing (mm)	g	Model No	Model No	Model No
10801	22.2	137	11361	14722	00042
10802	28.3	363	11362	06972	04040
10807	30.5	408	11357	36278	04040
10803	34.6	454	11363	04011	04040
10804	43.2	590	11364	04013	04040
10805	49.6	953	11365	04061	04042
10806	61.4	1043	11366	04063	04042

SLUG-BUSTER® KNOCKOUT PUNCHES

SLUG-BUSTER® KNOCKOUT



1.

Unique Slug-Buster® punch design creases slug as the punch is drawn into the die.

2.

Slug is split in half as punching operation is completed.

3.

Split slugs fall free from the die and stud.



FEATURES

- The contractor's choice – worldwide.
- Unique punch profile also splits slugs for easier slug removal.
- Use with battery-powered, hydraulic or manual operation.
- Uses standard Greenlee dies and draw studs.
- Slug Buster punches available in sizes up thru 64.0 mm.

SPECIFICATIONS

Capacity	3.5mm Punch mild steel, aluminium, fiberglass and plastic
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PUNCH UNIT – INCLUDES PUNCH, DIE & DRAW STUD

Punch Kit Model No	Hole Sizes Ø (mm)	Capacity Mild Steel (mm)	Weight (Unit) g	Punch Only Model No	Die Only Model No	Stud Only for Manual Operation Model No
06727	12.5	1.5	137	06728	06729	04218
12356	12.7	1.5	69	12360	12358	04218
12357	14.3	1.5	73.5	12357	12361	04218
31989	15.2	2.0	137	31969	32002	00042
35177	16.2	2.0	137	35163	35162	00042
12335	17.5	2.0	177	12337	12336	00042
31990	18.6	2.0	137	31970	32003	00042
12307	19.1	2.0	183	12306	12305	00042
31991	20.4	2.0	137	31971	32004	00042
31962	22.5	3.5	137	31756	14722	00042
12338	23.8	2.0	253	12340	12339	00042
35178	25.4	2.0	227	35165	35164	06678
12341	27.0	2.0	261	12343	12342	00042
31963	28.3	3.5	363	31757	06972	04040
31993	28.3	2.0	227	31973	32006	00042
60246	30.5	3.5	273	60237	36278	04040
36508	30.5	2.0	273	36284	36279	00042
12308	31.8	1.5	326	12309	12310	00042
35179	32.5	3.5	363	35169	35168	04040
12344	33.4	1.5	345	12346	12345	00042
31964	34.6	3.5	454	31758	04011	04040
12304	34.9	3.0	507	12303	12302	04040
31995	37.0	3.5	545	31975	32008	04040
12313	38.1	3.0	559	12312	12311	04040
35180	40.5	3.5	545	35158	35159	04040
12347	41.3	3.5	610	12349	12348	04040
31965	43.2	3.0	590	31759	04013	04040
12316	44.5	3.5	661	12315	12314	04040
31996	47.0	3.5	862	31976	32009	04042
12350	47.6	3.0	853	12354	12352	04042
31966	49.6	3.5	953	31760	04061	04042

continued on next page

SLUG-BUSTER® KNOCKOUT PUNCHES

Punch Kit Model No	Hole Sizes \varnothing (mm)	Capacity Mild Steel (mm)	Weight (Unit) g	Punch Only Model No	Die Only Model No	Stud Only for Manual Operation Model No
35181	50.8	3.5	1043	35160	35161	04042
36171	54.0	3.5	1134	36172	36173	04042
12351	57.2	3.0/3.5	1336	12355	12353	04042
31998	60.0	3.5	1270	31978	32011	04042
31967	61.5	3.5	1452	31761	04063	04042
35182	64.0	3.5	1542	35167	35166	04042



SPECIAL APPLICATION PUNCHES

SPECIAL APPLICATION HAND OPERATED PUNCHES

OILTIGHT PUNCHES WITH NOTCHES



SPECIFICATIONS

Hole Size mm			Max Capacity Mild Steel mm	Operation Type	Model No						Min Pilot Hole mm	Weight Kg	Optional Adapt for Hyd Drive
A	B	C			Complete Punch Unit*	Punch	Die	Draw Stud	BB Drive Nut	Counter Nut			
22.5	3.2	25.4	2.0	Hand-Hyd	60238	60239	60250	60117	60165	60258	15.9	0.95	60167 ◇
30.5	4.8	36.0	3.5	Hand-Hyd	60242	60243	60249	60117	60165	60258	15.9	1.2	60167 ◇

◇ For maximum draw stud life, hydraulic or battery drivers are recommended

KEY PUNCHES



SPECIFICATIONS

Hole Size mm			Max Capacity Mild Steel mm	Operation Type	Model No						Min Pilot Hole mm	Weight Kg	Optional Adapt for Hyd Drive
A	B	C			Complete Punch Unit*	Punch	Die	Draw Stud	BB Drive Nut	Counter Nut			
12.2	1.4	0.8	1.5	Hand-Hyd	60101	60102	60103	60115	60120	05244	9.5	0.4	60114 ◇
29.7	3.1	2.5	2.0	Hand-Hyd	60104	60105	60106	60166	60165	60258	23.8	1.0	60167 ◇
32.1	4.0	2.5	2.0	Hand-Hyd	60107	60108	60109	60166	60165	60258	23.8	1.1	60167 ◇
33.7	2.6	2.5	2.0	Hand-Hyd	60110	60111	60112	60166	60165	60258	23.8	1.1	60167 ◇

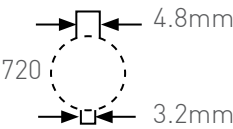
◇ For maximum draw stud life, hydraulic or battery drivers are recommended

KEYWAY PUNCH



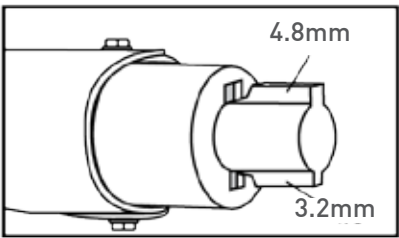
FEATURES

- Eliminates time-consuming hand sawing and filing when making keyways for push-button switches.
- Use as a nibbler to make wider or deeper keyways.
- Punches 3.2 mm or 4.8 mm keyways for 22.5 mm or 30.5 mm push-button holes.

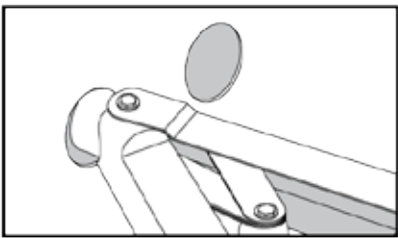


SPECIFICATIONS

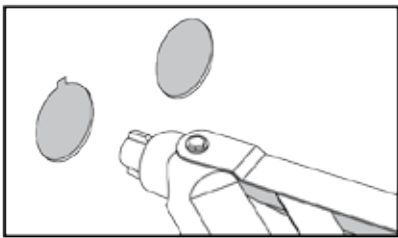
Model No	Description	Operation	Capacity	Weight Kg
26534	Keyway Punch	Manual	3.5mm	1.27
26534	(Replacement) Punch			
26538	(Replacement) Die			



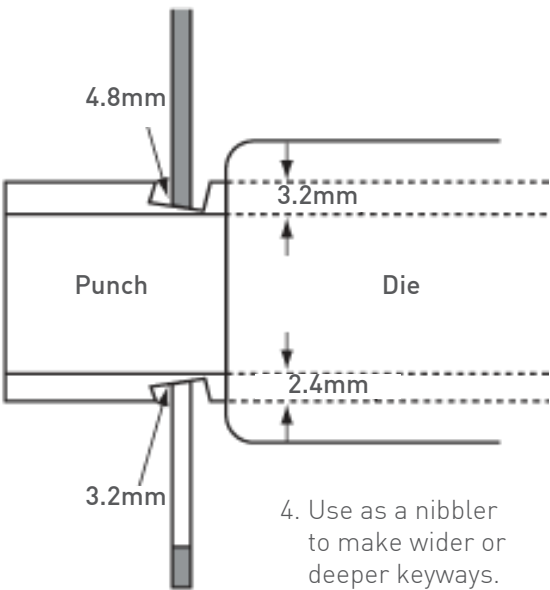
1. Locate proper cutting notch on the cutting head.



2. Place cutting notch inside edge of hole and cut keyway.



3. Withdraw the punch.

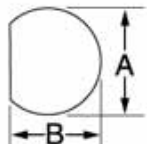


4. Use as a nibbler to make wider or deeper keyways.

"D" & DOUBLE "D" PUNCHES

SPECIAL APPLICATION HAND OPERATED PUNCHES

"D" PUNCHES



SPECIFICATIONS

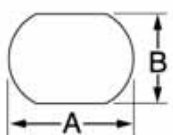
Hole Size mm		Max Capacity Mild Steel mm	Op. Type	Model No						Min Pilot Hole mm	Weight Kg	Optional Adapt for Hyd Drive
A	B			Complete Punch Unit*	Punch	Die	Draw Stud	BB Drive Nut	Counter Nut			
12.7	11.9	2.0	Hand-Hyd	60077	60078	60079	60115	60120	05244	9.5	0.41	60114 ◇
5.9	15.1	2.0	Hand-Hyd	61080**			34421	34733	04638	12.7	0.50	33967 ◇
19.1	17.9	2.0	Hand-Hyd	61083**			34421	34733	04638	12.7	0.50	33967 ◇

◇ For use with any Greenlee Hydraulic Driver or Battery-Powered Driver

** Sold as Unit only

For maximum draw stud life, Greenlee recommends the use of battery or hydraulic drivers

DOUBLE "D" PUNCHES



SPECIFICATIONS

Hole Size mm		Max Capacity Mild Steel mm	Op. Type	Model No				Min Pilot Hole mm	Weight Kg	Optional Adapt for Hyd Drive
A	B			Complete Punch Unit*	Draw Stud	BB Drive Nut	Counter Nut			
19.5	16.3	2.0	Hand-Hyd	61086**	34421	34733	04638	12.7	0.50	33967 ◇
20.2	17.6	2.0	Hand-Hyd	61089**	34421	34733	04638	12.7	0.50	33967 ◇
23.2	19.2	2.0	Hand-Hyd	61092**	34421	34733	04638	12.7	0.54	33967 ◇
23.2	20.2	2.0	Hand-Hyd	61095**	34421	34733	04638	12.7	0.90	33967 ◇
34.9	28.6	2.0	Hand-Hyd	60098**	60166	60165	60258	23.8	1.10	60167 ◇

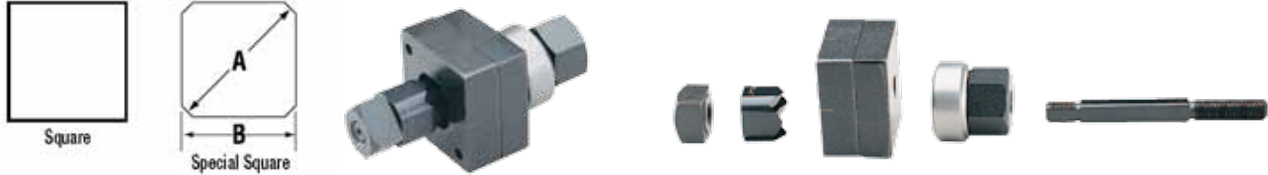
◇ For use with any Greenlee Hydraulic Driver or Battery-Powered Driver

** Sold as Unit only

For maximum draw stud life, Greenlee recommends the use of battery or hydraulic drivers

SQUARE AND SPECIAL SQUARE PUNCHES

SQUARE AND SPECIAL SQUARE PUNCHES



SPECIFICATIONS

Hole Size mm	Max Capacity Mild Steel mm	Op. Type	Model No						Min Pilot Hole mm	Weight Kg	Optional Adapt for Hyd Drive
			Complete Punch Unit*	Punch	Die	Draw Stud	BB Drive Nut	Counter Nut			
12.7	1.5	Hand-Hyd	60001	60002	60003	60115	60120	05244	9.5	0.50	60114◇
15.9	2.0	Hand-Hyd	61004	60005	60006	34421	34733	04638	12.7	0.68	33967◇
19.1	2.0	Hand-Hyd	61007**	-	-	34421	34733	04638	12.7	0.68	33967◇
22.4	2.0	Hand-Hyd	61010**	-	-	34421	34733	04638	12.7	0.82	33967◇
24.0	2.0	Hand-Hyd	61013**	-	-	34421	34733	04638	12.7	1.0	33967◇
25.4	2.0	Hand-Hyd	60016	60017	60018	60117	60165	60258	15.9	1.1	60167◇
45.0	3.5	Hyd Only	60287	60288	60289	60118	-	60235	30.2	2.7	◇
46.0	3.5	Hyd Only	60019	60020	60021	60118	-	60235	30.2	2.8	◇
50.8	3.5	Hyd Only	60168	60169	60170	60118	-	60235	30.2	3.1	◇
68.0	3.5	Hyd Only	60171	60172	60173	60118	-	60235	30.2	4.6	◇
92.0	3.5	Hyd Only	60174	60175	60176	60118	-	60235	30.2	6.7	*
104.8	3.5	Hyd Only	60177	60178	60179	60118	-	60235	30.2	8.5	*
138.0	2.0	Hyd Only	60234	60023	60024	60118	-	60235	30.2	9.1	*
Special Square											
A=22.5 B=20.1	2.0	Hyd Only	61125**			34421	34733	04638	12.7	0.3	33967

*For use with with Hand and Foot Pump Hydraulic Drivers with Ram

◇ For use with any Hydraulic Driver or Battery-Powered Driver For maximum draw stud life, we recommend the use of battery or hydraulic drivers

** Sold as Unit only

RECTANGULAR PUNCHES

SQUARE AND SPECIAL SQUARE PUNCHES



SPECIFICATIONS

Hole Size	Max Capacity Mild Steel mm	Op. Type	Model No						Min Pilot Hole mm	Weight Kg	Optional Adapt for Hyd Drive
			Complete Punch Unit*	Punch	Die	Draw Stud	BB Drive Nut	Counter Nut			
11.1x22.2	1.5	◇Hand-Hyd	60025	60026	60027	60115	60120	05244	9.5	0.50	60114◇
17.0x19.0	2.0	◇Hand-Hyd	61028	60029	60030	34421	34733	04638	12.7	0.68	33967◇
19.1x29.0	2.0	◇Hand-Hyd	60031	60032	60033	60117	60165	60258	15.9	1.00	60167◇
19.1x33.3	2.0	◇Hand-Hyd	60034	60035	60036	60117	60165	60258	15.9	1.00	60167◇
21.9x25.9	2.0	◇Hand-Hyd	60037	60038	60039	60117	60165	60258	15.9	1.00	60167◇
22.0x30.0	2.0	◇Hand-Hyd	60040	60041	60042	60117	60165	60258	15.9	1.10	60167◇
22.0x42.0	2.0	◇Hand-Hyd	60043	60045	60046	60117	60165	60258	15.9	1.30	60167◇
25.1x29.0	2.0	◇Hand-Hyd	60047	60048	60049	60117	60165	60258	15.9	1.20	60167◇
31.8x35.1	2.0	◇Hand-Hyd	60050	60051	60052	60117	60165	60258	15.9	1.40	60167◇
33.3x67.9	3.5	◇Hyd Only	60053	60054	60055	60018	-	60235	30.2	2.30	◇
35.0x52.0	3.5	◇Hyd Only	60056	60057	60058	60018	-	60235	30.2	2.80	◇
35.0x65.0	3.5	◇Hyd Only	60059	60060	60061	60018	-	60235	30.2	3.10	◇
35.0x82.0	2.0	*Hyd Only	60062	60063	60064	60018	-	60235	30.2	3.50	*
35.0x112.0	2.0	*Hyd Only	60065	60066	60067	60018	-	60235	30.2	4.20	*
46.0x92.0	3.5	*Hyd Only	60068	60069	60070	60018	-	60235	30.2	4.00	*
57.2x88.9	3.5	*Hyd Only	60071	60072	60073	60018	-	60235	30.2	4.60	*
68.0x138.0	2.0	*Hyd Only	60074	60075	60076	60018	-	60235	30.2	7.30	*

*For use with with Hand and Foot Pump Hydraulic Drivers with Ram
◇ For use with any Hydraulic Driver or Battery-Powered Driver For maximum draw stud life, we recommend the use of battery or hydraulic drivers

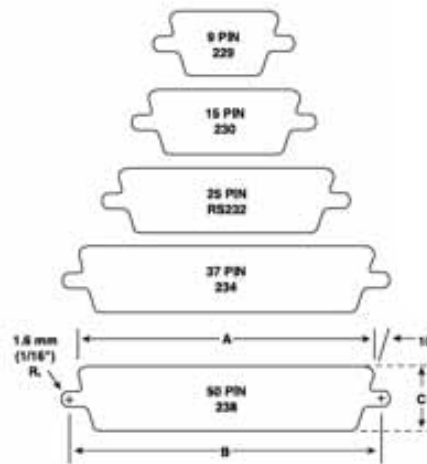
ELECTRONIC CONNECTOR PANEL PUNCHES

ELECTRONIC CONNECTOR PANEL PUNCHES



FEATURES

- Cut-out and mounting slots are punched in one operation.
- Drill only one 11.1 mm pilot hole. (See page J26 for Kwik Stepper step bits.)
- Fast, accurate panel punching with no sawing or filing required.
- Universal size punches for front or back mount of TRW Cinch and ITT Cannon-type or equivalent connectors in 9, 15, 25, 37 or 50-pin configurations.



SPECIFICATIONS

Capacity	1.5 mm mild steel; 3.5 mm aluminium
Operation	Manual with a wrench; hydraulic drivers, Battery Driver, Ram and Pump hydraulic drivers

Complete Punch Unit	No of Pins	Dimensions			Model No					Weight
		A (mm)	B (mm)	C (mm)	Punch	Die	Draw Stud	Square Counter Nut	Drive Nut	Kg
34436	9	20.0	24.9	11.9	34441	35196	34421	04638	34733	0.64
34437	15	28.6	33.3	11.9	34442	35197	34421	04638	34733	0.68
34420	25	42.0	42.1	11.9	34418	35198	34421	04638	34733	0.91
34429	37	58.3	63.4	11.9	34427	35199	34421	04638	34733	0.91
34444	50	55.9	61.0	14.7	34443	35200	34421	04638	34733	0.91

KNOCK OUT PUNCH & DIES

DIAMOND HANDY PUNCHERS (MADE IN JAPAN)

DIAMOND

Powerful punching action produces a burr free, round or elliptical hole far faster. Strong enough for steel, these punchers run off single phase (double insulated) or battery and are equipped with side handle, stand, 11mm punch with die and carrying case.



EP-19V	EP-20S	EP-1475V	EP-1406V	EP-2110V	EPC-1518V
Most popular model	More powerful than EP-19V, for thicker bars with throat scale	Features deep throat for lip channel bars	Lightest model available	Suitable for H-Beams	Battery version, provides approximately 200 punches per charge

Model No	Max Hole Size (mm)		Max. Material Thickness (mm)		Wt (kg)	Dimensions (mm)	Power	Watts
	Circular	Elliptical	Mild St / Alum	Stain Steel		L x W x H		
EP-19V	20	14 x 21	6	5	16.1	133x195x484	230V	1050
EP-20S	21	14 x 21	8	6	15	138x217x554	230V	2500
EP-1475V	15	11 x 16.5	6	5	11.8	124x175x421	230V	1020
EP-1406V	15	11 x 16.5	6	5	9.6	124x175x381	230V	1020
EP-2110V	22	18.2 x 22	10	5	23.8	138x217x554	230V	2500
EPC-1518V	15	11 x 16.5	6	5	7.6	460x98x246	Battery	N/A

Model No	Round Hole Size (mm)	3.4	4.2	5	5.5	6	6.5	6.5	8	8.5	8.5	10	11	12	13	14	15	16	17	18	18.5	19	20	21	22
EP-19V	Mild St/Al	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	-	-
	S.Steel	-	-	-	-	-	3	3	4	4	4	5	5	5	5	5	4	4	4	4	4	4	4	-	-
EP-20S	Mild St/Al	-	-	-	-	4.5	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	-	-
	S.Steel	-	-	-	-	3	3	-	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	-	-
EP-1475V	Mild St/Al	2.3	2.3	3.2	3.2	4.5	6	6	6	6	6	6	6	6	6	6	6	-	-	-	-	-	-	-	-
	S.Steel	-	-	-	-	-	3	-	4	5	5	5	5	5	5	5	4	-	-	-	-	-	-	-	-
EP-1406V	Mild St/Al	2.3	2.3	3.2	3.2	4.5	6	6	6	6	6	6	6	6	6	6	6	-	-	-	-	-	-	-	-
	S.Steel	-	-	-	-	-	3	-	4	5	5	5	5	5	5	5	4	-	-	-	-	-	-	-	-
EP-2110V	Mild St/Al	-	-	-	-	-	-	-	-	-	-	6	9	9	9	9	10	10	10	10	10	10	10	10	10
	S.Steel	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	6	6	6	6	6	6	6	6	6
EPC-1518V	Mild St/Al	2.3	2.3	3.2	3.2	4.5	6	6	-	6	6	6	6	6	6	6	6	-	-	-	-	-	-	-	-
	S.Steel	-	-	-	-	-	3	-	4	5	5	5	5	5	5	5	4	-	-	-	-	-	-	-	-

Model No	Elliptical Hole Size (mm)	4.5x9	5.5x11	6.5x10	6x13	6.5x13	8x13	8.5x13	8.5x17	9x13.5	9x16	9x18	10x15
EP-19V	Mild St/Al	-	-	6	6	-	6	-	6	6	-	6	6
EP-20S	Mild St/Al	-	-	6	6	-	6	-	6	8	-	8	8
EP-1475V	Mild St/Al	4.5	6	6	-	6	-	6	-	6	-	-	6
EP-1406V	Mild St/Al	4.5	6	6	-	6	-	6	-	6	-	-	6
EP-2110V	Mild St/Al	-	-	-	-	-	-	-	-	6	6	-	9
EPC-1518V	Mild St/Al	4.5	6	6	-	6	-	6	-	6	-	-	6

Model No	Elliptical Hole Size (mm)	10x18	10x20	11x16.5	12x18	12x20	13x19	14x19.5	14x21	14x22	16.5x20	18.2x22
EP-19V	Mild St/Al	-	6	6	6	-	-	6	6	-	-	-
EP-20S	Mild St/Al	-	8	8	8	-	-	8	8	-	-	-
EP-1475V	Mild St/Al	-	-	6	-	-	-	-	-	-	-	-
EP-1406V	Mild St/Al	-	-	6	-	-	-	-	-	-	-	-
EP-2110V	Mild St/Al	9	-	9	-	9	9	10	-	10	10	10
EPC-1518V	Mild St/Al	-	-	6	-	-	-	-	-	-	-	-

PUNCH & DIE SETS FOR DIAMOND HANDY PUNCHERS

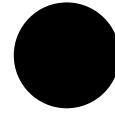


PUNCH/DIE SETS OF OTHER SIZES ARE AVAILABLE ON REQUEST.
WHEN ORDERING PLEASE NOTE TO ORDER PUNCH AND DIE SEPERATELY.

EP-2110V

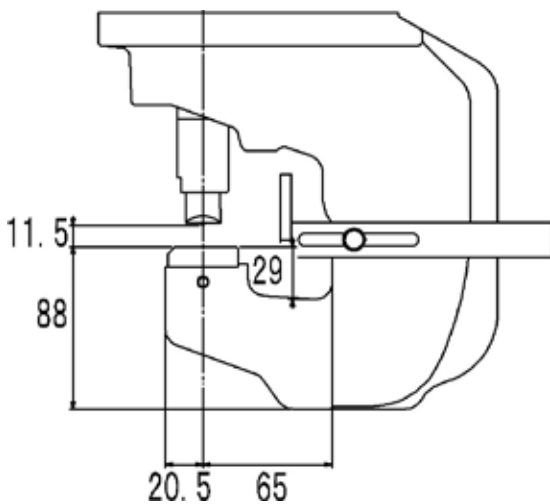


Elliptical hole			CUSTOM-MADE		
Size	Punch AH	Die AH	Size	Punch AH	Die AH
			8.0X15	6P11225L	6P12025B
9x13.5	6P1124L	6P1204B			
9X16	6P1125L	6P1205B			
10X15	6P1126L	6P1206B			
10X18	6P1127L	6P1207B			
			10X20	6P11272L	6P12072B
			10X25	6P11271L	6P12071B
11X16.5	6P1128L	6P1208B			
			11X18	6P11280L	6P12081B
			11.5X25	6P1129L	6P12082B
12X20	6P1134L	6P1213B			
13X19	6P1130L	6P1209B			
			14X18	6P11311L	6P1216B
14X19	6P1131L	6P1210B			
			14X21	6P11318L	6P12161B
14X22	6P11310L	6P1214B			
			14X22.5	6P11312L	6P1217B
			16X22	6P11325L	6P12115B
16.5X20	6P1132L	6P1211B			
18.2X22	6P1133L	6P1212B			
			North/South Elliptical		
			19.5x14	6P1131LY	6P1210BY



Round hole		
Size	Punch AH	Die AH
10.0	6P1104L	6P1164B
11.0	6P1105L	6P1165B
12.0	6P1106L	6P1166B
13.0	6P1107L	6P1167B
14.0	6P1108L	6P1168B
15.0	6P1109L	6P1169B
16.0	6P1110L	6P1170B
17.0	6P1111L	6P1171B
18.0	6P1112L	6P1172B
19.0	6P1114L	6P1174B
20.0	6P1117L	6P1177B
21.0	6P1115L	6P1175B
22.0	6P1116L	6P1176B

EP-2110V

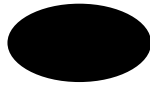


KNOCK OUT PUNCH & DIES

PUNCH & DIE SETS FOR DIAMOND HANDY PUNCHERS

DIAMOND

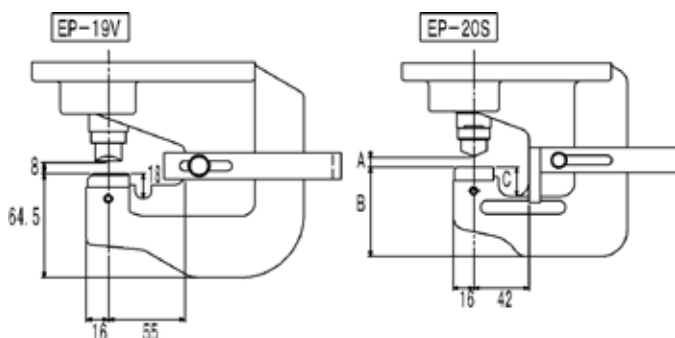
EP-19V/EP-20S



Elliptical hole						
Size	Punch	B Die	A Die	CB Punch	S Punch	TB Die
6.5x10	4P1120	3P1200	3P1180			
6.5x13	4P1121	3P1201	3P1181			
8.5x13	4P1122	3P1202	3P1182	3P1202C		
8.5x17	3P1123	3P1203	3P1183			
9x13.5	4P1124	3P1204	3P1184	3P1204C	3P1124S	3P1204TB
9x18	3P1125	3P1205	3P1185		3P1125S	3P1205TB
10x15	4P1126	3P1206	3P1186	3P1206C	3P1126S	3P1206TB
10x20	3P1127	3P1207	3P1187		3P1127S	3P1207TB
11x16.5	4P1128	3P1208	3P1188	3P1208C	3P1128S	3P1208TB
12x18	3P1129	3P1209	3P1189	3P1209C	3P1129S	3P1209TB
14x19.5	3P11301	3P12101	3P11901		3P11301S	3P12101TB
14x21	3P1131	3P1211	2P1191	3P1211C	3P1131S	3P1211TB



Round hole								
Size	Punch	B Die	A Die	CB Die	S Punch	SB Die	SA Die	TB Die
3.4	4P1096		3P1156					
4.2	4P1097		3P1157					
5.0	4P1098		3P1158					
5.5	4P1099		3P1159					
6.0	4P1100	3P1160	3P1140					
6.5	4P1101	3P1161	3P1141	3P1161C	3P1101S	3P1240	3P1220	
8.0	4P1102	3P1162	3P1142	3P1162C	3P1102S	3P1241	3P1221	
8.5	4P1103	3P1163	3P1143	3P1163C	3P1103S	3P1241	3P1222	
9.0	4P11030	3P11630	3P11430			3P12425	3P12420	3P11630TB
10.0	4P1104	3P1164	3P1144		3P1104S	3P1243	3P1223	3P1164TB
11.0	4P1105	3P1165	3P1145	3P1165C	3P1105S	3P1244	3P1224	3P1164TB
12.0	4P1106	3P1166	3P1146	3P1166C	3P1106S	3P1245	3P1225	3P1166TB
13.0	4P1107	3P1167	3P1147	3P1167C	3P1107S	3P1246	3P1226	3P1167TB
14.0	4P1108	3P1168	3P1148	3P1168C	3P1108S	3P1247	3P1227	3P1168TB
15.0	4P1109	3P1169	3P1149	3P1169C	3P1109S	3P1248	3P1228	3P1169TB
16.0	3P1110	3P1170	3P1150	3P1170C	3P1110S	3P1249	3P1229	3P1170TB
17.0	3P1111	3P1171	3P1151		3P1111S	3P1250	3P1230	3P1171TB
18.0	3P1112	3P1172	3P1152	3P1172C	3P1112S	3P1251	3P1231	3P1172TB
18.5	3P1113	3P1173	3P1153	3P1173C	3P1113S	3P1252		3P1173TB
19.0	3P1114	3P1174	3P1154	3P1174C	3P1114S	3P1253		3P1174TB
20.0	3P1115	3P1175	3P1155	3P1175C	3P1115S	3P1254		3P1175TB3



NOTE

S punch and TB die are only for the EP-20S.

- A Dies are used for thin material (2.0-2.3mm)
- B Dies are used for thick material (3.2-6.0mm)
- SA Dies are used for thin stainless material (1.0-2.3mm), SB Dies are used for thick stainless material (3.0-5.0mm)
- CB Dies are for the B sides of channel bars

PUNCH & DIE SETS FOR DIAMOND HANDY PUNCHERS

DIAMOND

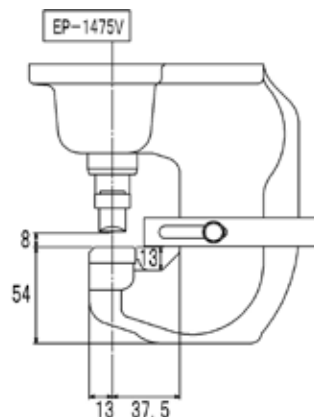
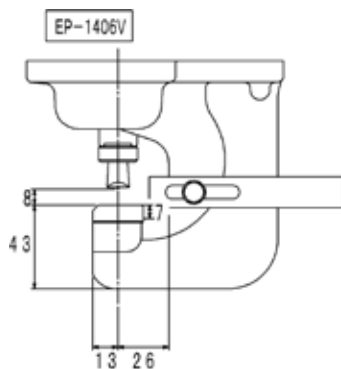
EPC-1518V/EP-1406V/EP-1475V



Elliptical hole				
Size	Punch	B Die	A Die	CB Die
4.5x9	4P1118		4P1178	
5.5X11	4P1119		4P1179	
6.5X10	4P1120	4P1200	4P1180	
6.5X13	4P1121	4P1201	4P1181	4P1201C
8.5X13	4P1122	4P1202	4P1182	
9X13.5	4P1124	4P1204	4P1184	4P1204C
10X15	4P1126	4P1206	4P1168	
11X16.5	4P1128	4P1208	4P1188	4P1208C



Round hole						
Size	Punch	B Die	A Die	CB Die	SB Die	SA Die
3.4	4P1096		4P1156			
4.2	4P1097		4P1157			
5.0	4P1098		4P1158			
5.5	4P1099	4P1159B	4P1159A			
6.0	4P1100	4P1160	4P1140			
6.5	4P1101	4P1161	4P1141		4P1240	4P1220
8.0	4P1102	4P1162	4P1142		4P1241	4P1221
8.5	4P1103	4P1163	4P1143	4P1163C	4P1242	4P1222
9.0	4P11030	4P11635	4P11435	4P11635C		
10.0	4P1104	4P1164	4P1144		4P1243	4P1223
11.0	4P1105	4P1165	4P1145	4P1165C	4P1244	4P1224
12.0	4P1106	4P1166	4P1146	4P1166C	4P1245	4P1225
13.0	4P1107	4P1167	4P1147		4P1246	4P1226
14.0	4P1108	4P1168	4P1148	4P1168C	4P1247	4P1227
15.0	4P1109	4P1170	4P1149	4P1169C	4P1249	4P1228



NOTE

S punch and TB die are only for the EP-20S.

- A Dies are used for thin material (2.0-2.3mm)
- B Dies are used for thick material (3.2-6.0mm)
- SA Dies are used for thin stainless material (1.0-2.3mm), SB Dies are used for thick stainless material (3.0-5.0mm)
- CB Dies are for the B sides of channel bars

DRAW STUDS

DRAW STUDS FOR MANUAL DRIVERS

Replacement Draw Stud Selection Guide. Refer to the pictures and information below when ordering a replacement draw stud.



Mid Section	Circular	Circular	Circular	Circular
Picture				
Model No	04042	00042	04040	04218
Length (mm)	75.0	41.0	54.0	35.0
OD (mm)	19.0	9.5	19.0	6.4
Thread (UNF)	3/4	3/8	3/4	1/4

DRAW STUDS FOR HYDRAULIC DRIVERS

Replacement Draw Stud Selection Guide. Refer to the pictures and information below when ordering a replacement draw stud.

Mid Section	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Picture					 Stainless Steel			 Stainless Steel	 Stainless Steel
Model No	10-14^ (ADAPTOR)	60167 (ADAPTOR)	10-04	10-05	30043	20963*	31872	29451	29452
Length (mm)	-	-	76.0	135.0	71.0	201.0	114.3	108.0	140.0
OD (mm)	19.0 (9.5 INTERNAL)	19.0 (12.7 INTERNAL)	9.5	19.0	9.5	9.5	19.0	11.1	19.0
Thread (UNF)	3/4 (3/8 INTERNAL)	3/4 (1/2 INTERNAL)	3/8	3/4 (3/8 INTERNAL)	3/8	3/8	3/4	7/16	3/4


*Alternative #SMR-3/8x3/4

^ Alternative #33967

DRAW STUDS FOR RATCHET DRIVERS & SPECIAL SQUARE PUNCHES



Replacement Draw Stud Selection Guide. Refer to the pictures and information below when ordering a replacement draw stud.

Type	Special Shape Punches					
Mid Section	Hex					
Picture						
Model No	60116	60117	34421	60115	60166	60118
Length (mm)	127	127	90	87	117	171
OD (mm)	9.5	12.7	9.5	6.3	12.7	19.0
Thread (UNF)	3/8	1/2	3/8	1/4	5/8	3/4

SPACERS FOR PUNCHING

Replacement spacers for punching. Refer to the pictures and information below when ordering a replacement spacer.



KIT CONTAINS

Model No	Type	SH-10	SH-5
5PDF-48	Extra Small		✓
10-03	Small	✓	✓
10-02	Medium	✓	✓
10-01	Large	✓	✓

DRILL & TAP COMBINATIONS

COMBINATION DRILL/TAP BITS

FEATURES

- Complete hole drilling, tapping and deburring/countersinking in one operation with power drill saves labor and time.
- Back tapered beyond tap to prevent thread damage from over-drilling.
- Deburr/countersink also provided on bit beyond back taper.
- Made from hardened high-speed steel vs. carbon steel for longer life.
- High quality hex shank to ensure strong connection to drill chuck.
- Designed to tap up to 3.5mm metal.
- Quick change adaptor included in both metric and standard kits.



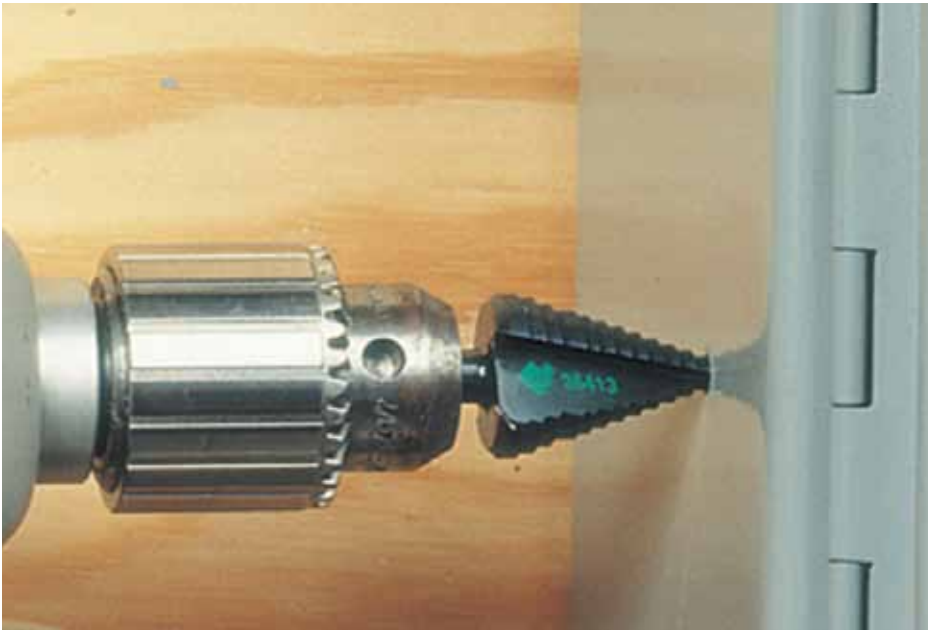
SPECIFICATIONS

Model No	Description	12151 Kit	17620 Kit
Kits			
12151	M3-M10, 6 Piece Drill/Tap Set		✓
17620	6-32 to 1/4-20 6 Piece Drill Tap Set	✓	
Individual & Replacements			
17611	6-32NC	✓	
17612	8-32NC	✓	
17613	10-24NC	✓	
17614	10-32NC	✓	
17615	12-24NC	✓	
17616	1/4-20NC	✓	
11627	5/16-A8NC		
11628	3/8-16NC		
12160	M3 x 0.50		✓
12161	M4 x 0.70		✓
12162	M5 x 0.80		✓
12163	M6 x 1.00		✓
12164	M8 x 1.25		✓
12165	M10 x 1.50		✓



NOTE : To extend the life of your tool, use Cutting/Threading Oil.

KWIK STEPPER STEP BITS FOR MILD STEEL



FEATURES

- Unique split-tip design penetrates through steel faster.
- Resists walking or skidding, even on round surfaces.
- Balanced, double-flute construction requires less pressure, does the work for you.
- Designed and manufactured in USA.












Model No	Description
35884	Kwik Stepper Step Bit Kit (See below for contents)
03607	Kwik Stepper Step Bit Kit (See below for contents)

Model No	Description	03607 Kit	35884 Kit
34401	12.7mm Multi-Hole Step Bit	✓	✓
34403	22.2mm Multi-Hole Step Bit	✓	✓
30008	28.6mm Multi-Hole Step Bit		✓
35936	Plastic Case	✓	✓

STEP BITS

STEP BITS FOR MILD STEEL, PLASTICS, ETC NOT RECOMMENDED FOR STAINLESS STEEL

SPECIFICATIONS

Single Hole Bits are designed to drill one indicated hole size through a series of steps from bit to tip size. Multi-hole bits allow you to drill a hole in any of the stated diameters												
mm	12.7	12.7	12.7	12.7	20.6	22.2	22.2	28.6	34.9	9.7	30.5	32.5
Step Bit Hole Type	Single	Single	Multi	Multi	Multi	Multi	Multi	Multi	Multi	Multi	Multi	Multi
Inch	mm	34410	34401	36402	30005	34411	34403	30008	36414	36018	36020	36022
1/8	3.2		✓									
5/32	4.0		✓									
3/16	4.8		✓	✓	✓		✓					
7/32	5.6		✓									
1/4	6.4		✓	✓	✓		✓					
9/32	7.1		✓									
5/16	7.9		✓	✓	✓		✓					
11/32	8.7		✓									
3/8	9.5		✓	✓	✓		✓					
0.382	9.7									✓	✓	
13/32	10.3		✓									
7/16	11.1		✓	✓	✓		✓					
15/32	11.9		✓									
0.492	12.5										✓	
1/2	12.7	✓	✓	✓	✓		✓	✓				
9/16	14.3				✓		✓					
0.598	15.2										✓	
5/8	15.9				✓		✓					
0.638	16.2											✓ISO-16
11/16	17.5				✓		✓					
0.732	18.6										✓	
3/4	19.1				✓		✓					
0.803	20.4										✓	✓ISO-20
13/16	20.6				✓		✓					
7/8	22.2					✓	✓	✓	✓			
0.886	22.5										✓	
1.00	25.4											✓ISO-25
1.114	28.3										✓	
1-1/8	28.6							✓	✓			
1.201	30.5								✓			
1-7/32	31.0								✓			
1-1/4	31.8								✓			
1.280	32.5											✓ISO-32
1-3/8	34.9								✓			
Overall Length (mm)		47.6	85.7	87.3	87.3	61.9	90.5	74.6	79.4	47.6	95.3	85.7
Minimum Chuck Size (mm)		9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Max Material Thickness (mm)		3.5	3.5	9.5	3.5	3.5	3.5	3.5	3.5	3.5	6.4	6.4
Bit Extension		901	901	901	901	-	-	-	-	901		



IMPACT AUGER BITS

FEATURES

- Especially designed for Australian hardwood
- Preferred by major Australian utilities
- Ideal for power poles, bridges and wharfs
- Manufactured from high grade alloy steel
- Individually packaged in plastic protective tube
- Vigorously tested under Australian conditions
- Can be resharpened
- Also available in tungsten tipped
[Add 'TT' to standard Model No. below]

Bushranger Augers are designed with a tough fast-cutting specially hardened leadscrew and side cutting edges offering the longest tool life and lowest cost-per-hole.

Designed for rugged heavy duty boring jobs in all types of hardwood. Used for utility poles, timber bridges and for pest control applications. Precision machined on absolute centres for easy smooth boring (no wobble). 7/16" hex shank for quick change chuck or standard keyed chuck.



Model Number	Size OD (mm)	Length (mm)
STMSF808X200	8	200
STMSF810X200	10	200
STMSF811X225	11	225
STMSF812X225	12	225
STMSF812X457	12	457
STMSF814X225	14	225
STMSF814X457	14	457
STMSF814X600	14	600
STMSF815X225	15	225
STMSF816X225	16	225
STMSF816X457	16	457
STMSF816X600	16	600
STMSF818X225	18	225
STMSF818X457	18	457
STMSF818X600	18	600
STMSF819x600	19	600

Model Number	Size OD (mm)	Length (mm)
STMSF820X225	20	225
STMSF820X457	20	457
STMSF820X600	20	600
STMSF822X225	22	225
STMSF822X457	22	457
STMSF822X600	22	600
STMSF822X900	22	900
STMSF825X457	25	457
STMSF825X600	25	600
STMSF825X900	25	900
STMSF826x225	26	225
STMSF826X457	26	457
STMSF829X457	29	457
STMSF829X600	29	600
STMSF832X600	32	600
STMSF838X457	38	457

FLEXIBLE DRILLS & QUICK CONNECT EXTENSIONS

D'VersiBIT SYSTEM

D'versiBIT®



FEATURES

A new twist to an old problem.



These flexible steel drill bits are the right tools for installing wire or cable inside existing walls.

It bends to meet your needs!

Fishing wire or cable through existing walls used to be frustrating and time-consuming, but the D'VersiBIT has made it as simple as bowing the spring steel shaft in the direction you want to drill and turning on the power. Proven in the field to deliver accurate and professional results in many applications. Bits range from 4.8 to 25.4 mm in diameter and in shaft length from 304.8 to 1828.8 mm.

The D'VersiBIT System makes it possible to easily accomplish even complex installations. This patented system attaches a quality drill bit to a long flexible spring steel shaft. When used with the Placement Tool, this flexibility makes it possible to easily manipulate the bit within walls. After drilling, attach a D'VersiGRIP to the hole in the drill and pull wire or cable back through the wall.



Type M, Masonry	Type HS, Wood
	
<ul style="list-style-type: none"> • For drilling in masonry walls and through plaster. • Recommended for use with Abrasion Shield to reduce friction and abrasion as the shaft turns against masonry. 	<ul style="list-style-type: none"> • Designed for aggressive cutting in all types of wood. • Made from high-speed steel to ensure long life. • Replaces Bellhanger bits on 12", 18" and 24" lengths.




Bits are colour coded as per table below (Blue, Black & Green)

SPECIFICATIONS

Bit Diameter Colour Code		Shaft Length	Shaft Diameter	Type M Masonry	Type HS High Speed Steel
Inch	mm	mm	mm	Model No	Model No
1/4	6.4	304	4.8	-	39913
1/4	6.4	457	4.8	-	38744
1/4	6.4	609	4.8	-	38745
1/4	6.4	914	4.8	-	38746
3/8	9.5	304	4.8	-	39914
3/8	9.5	609	4.8	-	38750
3/8	9.5	914	4.8	-	38751
3/8	9.5	1371	4.8	38668	38752
3/8	9.5	1828	4.8	-	38753
1/2	12.7	914	4.8	-	38756
1/2	12.7	1371	4.8	-	38757
1/2	12.7	1828	4.8	-	38758
1/2	12.7	1371	6.4	38678	-

FLEXIBLE DRILLS & QUICK CONNECT EXTENSIONS

D'VersiBIT® SYSTEM CONT.

Type A, Auger	Type B, Combination with Screw Point	Type C, Combination
		
<ul style="list-style-type: none"> • Wood-type auger bit with screw point. • Pulls itself through wood, avoids walking or skidding. • Excellent for drilling in soft woods or through thin sections. • Slow back-taper allows for easy retrieval. 	<ul style="list-style-type: none"> • For aggressive chip removal in many types of woods. • Screw point for easy starting and pulling through wood. • With screw point removed, this bit can be ground to function like a standard combination bit. 	<ul style="list-style-type: none"> • For drilling in tough woods and thick obstacles. • Drilling speed relative to pressure applied. • Chips can be brought easily out of the hole.

SPECIFICATIONS

Bit Diameter Colour Code	Shaft Length	Shaft Diameter	Type A Auger	Type B Combination with Screw Point	Type C Combination
mm	mm	mm	Model No	Model No	Model No
6.4	914	4.0	-	-	38112
6.4	1371	4.0	-	-	38113
6.4	1828	4.0	-	-	38114
9.5	914	4.8	38067	38092	38117
9.5	1371	4.8	38068	38093	38118
9.5	1828	4.8	38069	38094	38119
12.7	914	4.8	38072	38097	38122
12.7	1371	4.8	38073	38098	38123
12.7	1828	4.8	38074	38099	38124
14.3	914	4.8	38077	38102	-
14.3	1371	4.8	38078	38103	38128
14.3	1828	4.8	38079	38104	38129
19.1	914	6.4	38082	-	-
19.1	1371	6.4	38083	-	38133
19.1	1828	6.4	38074	-	38134
25.4	914	6.4	38087	-	-
25.4	1371	6.4	38088	-	-
25.4	1828	6.4	38089	-	-

Bits are colour coded as per table below (Blue, Black, Green, Orange, Red & White)

D'VersiBIT® STARTER KIT

FEATURES

- All the tools to complete a typical wiring job.
- Includes 09-03-54B bit, 712P placement tool and 150 pulling grip.

SPECIFICATIONS

Model No	Description
01630	D'VersiBITR Kit with 14.3mm (9/16") Bit, Placement Tool and Grip for Pulling 12.7mm (1/2") OD Wire

QUICK CONNECT EXTENSIONS AVAILABLE UPON REQUEST

FEATURES

- Flexible shaft allows easy access to difficult and tight areas
- Convenient 1/4" quick connect receiver accepts most standard quick change accessories.
- Multiple extensions can be easily joined to create the perfect length for any job.
- Capacity: Any 1/4" quick change accessory 3/4" diameter and under.

CONTACT US FOR MORE DETAILS

D'versiBIT®

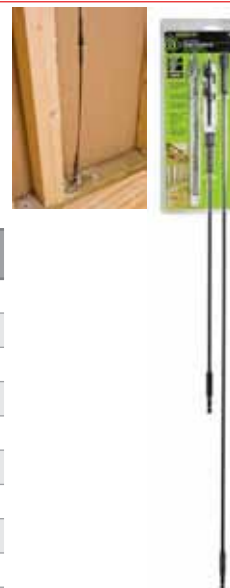


ACCESSORIES – FLEXIBLE DRILLS

D'VERSIBIT ACCESSORIES (MADE IN USA)

QUICK CONNECT EXTENSIONS

- Flexible shaft allows easy access to difficult and tight areas
- Convenient 1/4" quick connect receiver accepts most standard quick change accessories.
- Multiple extensions can be easily joined to create the perfect length for any job.
- Capacity: Any 1/4" quick change accessory 3/4" diameter and under.



MODEL NO.	DESCRIPTION	METRIC (mm)	CAPACITY (kg)	Wt (g)
12412	Extension, Quick Change 3/16x12"	4.8x305	-	90
12413	Extension, Quick Change 3/16x18"	4.8x457	-	113
12414	Extension, Quick Change 3/16x24"	4.8x610	-	136
12415	Extension, Quick Change 3/16x36"	4.8x914	-	181
12791	Grip, Quick Change 3/8x1/4"	9.5x6.4	45	18
12792	Grip, Quick Change 1/2x1/4"	12.7x6.4	45	22
12793	Grip, Quick Change 3/4x1/4"	19.1x6.4	45	27
12417	Bit, Auger, Quick Change 3/4A	19.1	-	272
12411	Quick Change Extension System Kit	-	-	1000

EXTENSIONS

- Sizes for 3/16" (4.8 mm) and 1/4" (6.4 mm) diameter shafts.
- Connect to chuck end of D'VersiBITR shaft to increase the length of the bit.



TECHNICAL

Size 3XT 36, 3XT 54, 3XT 72 - connecting end diameter 7/16" (11.1 mm)

4XT 36, 4XT 54, 4XT 72 - connecting end diameter 5/8" (15.9 mm)

MODEL NO.	SHAFT DIAMETER	LENGTH
38685	3/16" (4.8 mm)	914.4
38686	3/16" (4.8 mm)	1,371.6
38687	3/16" (4.8 mm)	1,828.8
38688	1/4" (6.4 mm)	914.4
38689	1/4" (6.4 mm)	1,371.6
38690	1/4" (6.4 mm)	1,828.8

Model No. 38350 Placement Tool

- Used to position all bit and shaft sizes
- Allows placement of the drill bit at any point within the wall.
- Helpful in judging where the bit will be during drilling to avoid accidentally drilling through the wall.
- Useful for vertical and horizontal placements.



Wire & Cable Pulling Grips

- For pulling wire, cable or fish tape through walls
- Grip can attach to standard D'VersibitR or to any standard 1/4" Quick Connect adapter.
- Swivel design reduces twisting.
- Mesh design holds wire or cable during pull.
- Capacity: 45kg pulling force.



MODEL NO.	SHAFT DIAMETER	METRIC (mm)
12791	Quick Change Grip for Pulling Single Wire with 3/8" to 1/2"	9.5-12.7
12792	Quick Change Grip for Pulling 1/2" OD Wire with 1/2" to 9/16"	12.7 OD Wire/12.7-14.3
12793	Quick Change Grip for Pulling 3/4" OD Wire with 3/4" to 1"	19.1 OD Wire/19.1-24.4

Abrasion Shield

- Tube fits both shaft sizes.
- Prevents insulation from wrapping around any size or type D'VersiBITR shaft.
- Protects shaft of masonry bits as they turn against masonry walls.
- Protects hand holding shaft during drilling.

MAGNETIC DRILLS MD SERIES (MADE IN USA)

Trak-Star offers three magnetic drills for holemaking. The Low profile MD40 is lightweight and easily fits into tight areas. The MD50 is the best all round drill for general fabrication. The powerful MD70 makes large deep holes in heavy duty fabrication environments.



MD70/230V



MD50/230V



MD40/230V

MODEL MD40/230V LOW PROFILE MAGNETIC DRILL



Patented quill feed arbor for smooth cuts and minimal maintenance. Uses RotaLoc Plus™ cutters which require no tools for installation or removal. Positive slug ejection, high torque gearing with lift detector safety system. Feed handle switches easily from side to side. Ratchet or wrench can be used in place of feed handle. Rear mounted controls. Lightweight with ergonomic carrying handle. Carrying case included with one year warranty.

FEATURES		SPECIFICATIONS	
Electric		230VAC, 50Hz, 9A, 1035W	
Motor		8A, 450RPM	
Diameter (mm)		12-35	
Depth (mm)		25	
Cutter/Mount		Rotaloc Plus	
Dimensions (mm)		198H x 165W x 297L	
MAGNET			
Base (mm)		102W x 178L	
POWER			
25mm Plate		Dead Lift – 982kg	
9.5mm Plate		Dead Lift – 544kg	
Weight (kg)		10.3	

MODEL MD50/230V MAGNETIC DRILL



Large 38.1 x 50.8mm capacity. Uses Mag Drill Annular Cutters. Positive slug ejection. Durable and powerful magnet. Wide range of accessories are available. Feed handles quickly change from side to side. Lift detector safety system with rear mounted controls. Gravity fed coolant system. Carrying case included with one year warranty.

FEATURES		SPECIFICATIONS	
Electric		230VAC, 50Hz, 9A, 1035W	
Motor		8A, 450RPM	
Diameter (mm)		12-38	
Depth (mm)		50	
Cutter/Mount		19mm Shank Annular Cutters	
Dimensions (mm)		416H x 183W x 210L	
MAGNET			
Base (mm)		102W x 178L	
POWER			
25mm Plate		Dead Lift – 794kg Drillpoint Breakaway 433kg	
9.5mm Plate		Dead Lift – 594kg Drillpoint Breakaway 322kg	
Weight (kg)		12.5	

MODEL MD70/230V MAGNETIC DRILL



52.4mm diameter x 76.2mm depth. Powerful high torque motor and gears. Uses Mag Drill Annular Cutters. Positive slug ejection. Feed handles quickly change from side to side. Lift detector safety system. Rear mounted controls. Gravity fed coolant bottle supplied. Carrying case included with one year warranty.

FEATURES		SPECIFICATIONS	
Electric		230VAC, 50Hz, 12.2A, 1403W	
Motor		11.2A, 350RPM	
Diameter (mm)		12-52	
Depth (mm)		76	
Cutter/Mount		19mm Shank Annular Cutters	
Dimensions (mm)		584H x 191W x 311L	
MAGNET			
Base (mm)		89W x 197L	
POWER			
25mm Plate		Dead Lift – 1012kg Drillpoint Breakaway 535kg	
9.5mm Plate		Dead Lift – 565kg Drillpoint Breakaway 361kg	
Weight (kg)		18.6	

MAGNETIC DRILL ACCESSORIES

ANNULAR CUTTERS FOR MD40

		
MD50 & MD70 Annular Cutters	MD40 Annular Cutters	Pilots
<p>Trak-Star Annular Cutters for magnetic drills and many competitive brands. These tools feature an aggressive tooth geometry for faster cutting. They are made from high quality hardened M2 HSS and have a 3/4" two flat shank.</p>	<p>RotaLoc Plus Annular Cutters are made from hardened M2 HSS and feature the quick change shank for fast tool change outs. 50mm depth.</p>	<p>For use with the MD series magnetic drills.</p>

ANNULAR CUTTERS FOR MD50 & MD70

25mm Model No.	50mm Model No.	Cutter OD (mm)	Decimal Equiv.
10531	10532	Pilot Model No	
12312	12412	12	0.4724
10533	10534	Pilot Model No	
12313	12413	13	0.5118
12314	12414	14	0.5512
12315	12415	15	0.5906
12316	12416	16	0.6299
12317	12417	17	0.6693
12318	12418	18	0.7087
10527	10528	Pilot Model No	
12319	12419	19	0.748
12320	12420	20	0.7874
12321	12421	21	0.8268
12322	12422	22	0.8661
12323	12423	23	0.9055
12324	12424	24	0.9449
12325	12425	25	0.9843
12326	12426	26	1.0236
12327	12427	27	1.063
12328	12428	28	1.1024
12329	12429	29	1.1417
12330	12430	30	1.1811
12331	12431	31	1.2205
12332	12432	32	1.2598
12333	12433	33	1.2992
12334	12434	34	1.3386
12335	12435	35	1.3779
12336	12436	36	1.4173
12337	12437	37	1.4567
12338	12438	38	1.4961
12339	12439	39	1.5354
12340	12440	40	1.5743
12341	12441	41	1.6142
12342	12442	42	1.6535
12343	12443	43	1.6929
12344	12444	44	1.7323
12345	12445	45	1.7717
12346	12446	46	1.811
12347	12447	47	1.8504
12348	12448	48	1.8898
12349	12449	49	1.9291
12350	12450	50	1.9685
12351	12451	51	2.0079
12352	12452	52	2.0472

ANNULAR CUTTERS FOR MD40

Model No	Cutter OD (mm) Use Pilot # 17470	Decimal Equiv.
17400	12	0.4724
17402	13	0.5118
17404	14	0.5512
17406	15	0.5906
17408	16	0.6299
17410	17	0.6693
17412	18	0.7087
17414	19	0.748
17416	20	0.7874
17418	21	0.8268
17420	22	0.8661
17422	23	0.9055
17424	24	0.9449
17425	24.5	0.9645
17426	25	0.9843
17428	26	1.0236
17430	27	1.063
17432	28	1.1024
17434	29	1.1417
17436	30	1.1811
17438	31	1.2205
17440	32	1.2598
17442	33	1.2992
17444	34	1.3386
17446	35	1.3779

PILOTS FOR MD40

Model No	Description
17100	Standard Pilot for HMD115
17101	Spring Ejection Pilot*
17470	For use with HMD150

PILOTS FOR MD50 & MD70 CUTTERS

Model No	Description
10527	25.4mm D.O.C. Pilot (19mm - 52mm)
10528	50.8mm D.O.C. Pilot (19mm - 52mm)
10531	25.4mm D.O.C. Pilot (12mm)
10532	50.8mm D.O.C. Pilot (12mm)
10533	25.4mm D.O.C. Pilot (13mm - 18mm)
10534	50.8mm D.O.C. Pilot (13mm - 18mm)
24131	76.2mm D.O.C. Pilot (19mm - 52mm)

MODEL NO. BE32AUS (MADE IN UK)

FEATURES

The BE32AUS Conduit Machine will bend 16mm, 20mm, 25mm and 32mm galvanised and black enamel conduit. The formers are precision machined aluminium for improved accuracy and ease of use throughout the bend. The BE32AUS Conduit Machine is supplied with a quality pipe vice and carrying handle for ease of transportation also an extension lever is provided for extra leverage required for bending larger diameter conduit. When not in use the extension lever can be stored neatly on the side of the machine. The BE32 Conduit Machine is manufactured in the UK by the last British manufacturer of the Hilmor brand of pipe bending machines spares and accessories.

SPECIFICATIONS

Capacity: 16mm, 20mm, 25mm, & 32mm OD Electrical Steel and PVC Conduit*

Includes: Vice 16/20/25/32mm Formers.

DETAILS

- Used in electrical installation
- Precision machined aluminium formers
- Bends 16mm, 20mm, 25mm and 32mm conduit with included formers
- Pipe vice and extension lever included

SPARE PARTS



Capacity – 16-32mm Ø
*Steel Electrical Conduit 2.0mm thick and under all PVC conduits



MODEL No. BVICE2 2"/50mm Pipe vice

BLP



MODEL No. BLP Bending lever pin
BCP Centre pin

BLP



MODEL No. B32F 32mm Conduit former
MODEL No. B25F 25mm Conduit former
MODEL No. B20F 20mm Conduit former
MODEL No. B16F 16mm Conduit former



MODEL NO. BDP Repeat bend attachment (Supplied with bolts and pins (not shown))



MODEL No. BTS Tube stop and clip



MODEL No. BRC Retaining clips x5



MODEL No. BSPCA Safety Chain Assembly



MODEL No. BGR Grooved roller



MODEL No. BUNIBL Universal bending lever



MODEL No. BPVJ Pipe vice jaw set

HYDRAULIC PIPE BENDER

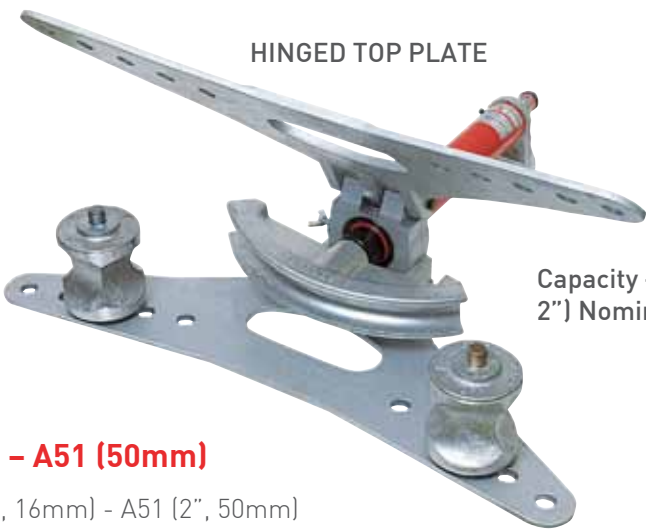
MODEL No. PB-10N



FEATURES

The PB-10N was designed to bend various sizes and various thickness of steel pipes without wrinkles. An aluminium alloy frame makes this bender lighter so that it can be easily carried to the job site.

Bending shoes are designed to bend gas pipe listed in chart. Or steel electrical conduit.



HINGED TOP PLATE

Capacity – 15-50mm (1/2-2") Nominal Bore Pipe

SUITABLE FOR AIG (20mm) – A51 (50mm)

- Thin steel conduit (A) A15 (5/8", 16mm) - A51 (2", 50mm)
Gas pipe (SGP) SGP15 (1/2", 21.3mm) - SGP50 (2", 60.3mm)

SPECIFICATIONS

- Oil volume required 400cc
Output force 108kN
Ram stroke 250mm
Size 780mm Wide
Weight 15kg (W/O PIVOT SHOES and BENDER SHOE)
INCLUDES: Frame, Cylinder, Pivot shoes (2 pieces) and Angle gauge



(162kN, 900mm W, 28.8kg) which is capable of using all the same shoes as the PB-10N as well as being able to bend up to;

- Steel Conduit: 4" / B104 (113.4mm Actual Diam)
- Gas Pipe: 4" SGP 100 (114.3mm Actual Diam)

Hydraulic pump & Bending shoes are sold separately.

BENDING SHOES STEEL CONDUIT

Model No.	(mm) OD
A15	16
SGP15	20
A25	25
A31	32
B36	40
A51	50

GAS PIPE

Model No.	(mm) OD
SGP-15 1/2 GAS	21.3
SGP-20 3/4 GAS	26.9
SGP-25 1 GAS	33.7
SGP-32 1 1/4 GAS	42.2
SGP-40 1 1/2 GAS	48.3
SGP-50 2 GAS	60.3



Example of bending shoes

Use any 700 bar hydraulic high pressure pumps refer Section C

MANUAL, ELECTRIC & DIGITAL PIPE BENDERS



MANUAL, ELECTRIC & DIGITAL PIPE BENDERS (MADE IN ITALY)

Made in Italy CBC pipe bending machines are of high quality.

No Mandrel										
Pipe Type	9200121.4 (UNI42A) DIGITAL		9200150.1 (UNI42A) ELECTRIC		9200005.1 (UNI42) MANUAL		9200345.4 (UNI60A) DIGITAL		9200350.4 (UNI60A) ELECTRIC	
	Ø mm	Thick mm	Ø mm	Thick mm	Ø mm	Thick mm	Ø mm	Thick mm	Ø mm	Thick mm
Hard & Soft Cu, Annealed Brass	42	1.5	42	1.5	42	1.5	54	2	54	2
Steel Conduit	40	1.5	40	1.5	40	1.5	50	1.5	50	1.5
S/S AISI 304/316	30	2.0	30	2.0	30	2.0	35	3	35	3
Hydraulic Steel ST. 35.4	42	3.0	42	3.0	42	3.0	48	4	48	4
Furniture	42	3.0	42	2.0	42	2.0	48	3	48	3
FE Boiler	42	3.0	42	3.0	42	3.0	48	3	48	3
Aluminium	42	3.0	42	3.0	42	3.0	54	3	54	3
Gas	31.75 [1-1/4"]	Std	31.75 [1- 1/4"]	Std	31.75 [1-1/4"]	Std	38.1 [1-1/2"]	Std	38.1 [1-1/2"]	Std
Double Coated Al Pipe	50	Std	50	Std	50	Std	63	Std	63	Std
Standard Bending Radius	3/4 x Ø		3/4 x Ø		3/4 x Ø		3/4 x Ø		3/4 x Ø	



9200121.4 (UNI42A)	9200150.1 (UNI42A)	9200005.1 (UNI42)
DIGITAL (230V 50Hz)	ELECTRIC (230V 50Hz)	MANUAL
DESCRIPTION		
UNI 42, electric, an accurate and powerful bending machine able to bend large diameters as well as thin and delicate pipes with optimum and constant bending radius and without any pipe deformation.	UNI 42, electric, an accurate and powerful bending machine able to bend large diameters as well as thin and delicate pipes with optimum and constant bending radius and without any pipe deformation.	UNI 42 manual, an accurate and powerful pipe bending machine able to bend large pipe diameters with optimum and constant bending radius and without any pipe's deformation.
TECHNICAL		
<ul style="list-style-type: none"> - Aluminium body - Motor HP 0,75 230V 50 HZ 2800 RPM - Digital control panel with microprocessor for programming the angle of bend. Capable of storing 9 bending with 9 bend per program. - Low tension electronic schedule (24V) - Electrobrake - Automatic return to stop 	<ul style="list-style-type: none"> - Aluminium body - Motor HP 0,75 230V 50 HZ 2800 RPM - Low tension electronic schedule (24V) - Bending angle regulation - Electrobrake - Automatic return to stop 	<ul style="list-style-type: none"> - Aluminium body - Tempered steel gears on ball bearings - Maximum bending angle 180°
DIMENSIONS (mm)		
520 L x 170 W x 350 H	520 L x 170 W x 350 H	400 L x 200 W x 250 H
WEIGHT (kg)		
35	35	18

MANUAL, ELECTRIC & DIGITAL PIPE BENDERS



MANUAL, ELECTRIC & DIGITAL PIPE & TUBE BENDERS (MADE IN ITALY)



9200345.4 (UNI60A)

DIGITAL (230V 50Hz)

9200350.4 (UNI60A)

ELECTRIC (230V 50Hz)

DESCRIPTION

UNI 60 digital, an accurate and powerful bending machine able to bend large diameters as well as thin and delicate pipes with optimum and constant bending radius and without any pipe deformation.

TECHINCAL

- Aluminium body
- Motor HP 1,30 230V 50 HZ (different voltages on request) 2800 RPM
- Digital control panel with microprocessor for programming the angle of bend. Capable of storing 9 bending with 9 bend per program
- Low tension electronic schedule (24V)
- Bending angle regulation
- Electrobrake
- Automatic return to stop

- Aluminium body
- Motor HP 1,30 230V 50 HZ (different voltages on request) 2800 RPM
- Low tension electronic schedule (24V)
- Bending angle regulation
- Electrobrake
- Automatic return to stop

**LARGE RANGE OF
FORMERS AVAILABLE.
PLEASE VISIT OUR
WEBSITE FOR MORE
INFORMATION**

DIMENSIONS (mm) without stand

520 L x 210 W x 410 H

520 L x 210 W x 410 H

WEIGHT (kg)

60

60

ACCESSORIES



Folding stand.
For UNI 42 (Model No. 000592.1).
For UNI 60 (Model No. 000593.1).



Universal base, necessary for bending with moving plane of bend for UNI 42 and UNI 60 (Model No. 000970)



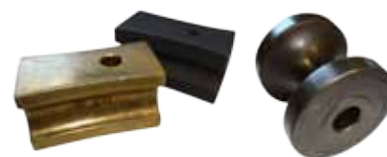
Formers in aluminium or cast-iron complete with ring for bending with standard radius (3 or 4 D).



Moving plane of bend complete with plan regulator for UNI42 & UNI60



UNI 42 digital, complete with moving plane of bend and universal base.



Guide is used for bending thin-wall pipes with formers type A-B-C-E-L-H. Rollers used for bending thick wall pipes

CONTACT US FOR MORE DETAILS & SPECIFICATIONS ON FORMERS & GUIDES OR VISIT OUR WEBSITE

BUS BAR FABRICATION (MADE IN GERMANY)

novopress

Model No.	Type	Description
39659	Machine with Accessories & Power Pack	SLB 125 "Package" incl. acc and Power Pack HA 3, includes 3 cutting & punching tools; 3 sets of punches & dies
31425	Optionsl Accessory	Small step bending tool
31646	Optionsl Accessory	Large step bending tool
31636	Optionsl Accessory	Short leg bender
42430	Optionsl Accessory	Special U-bender 60 mm



SLB

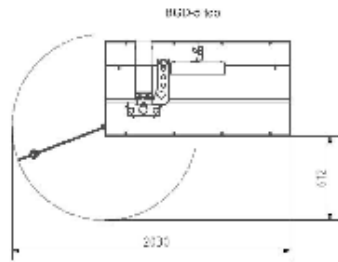
Model No. SLB 125 Three in One Bus Bar Fabricating		
Features	Advantages	Technical
<p>The unique SLB 125 three-in-one busbar tool guarantees effortless cutting, bending and punching of aluminium and copper busbars. Whether in the work shop or at the construction site - the basic unit transforms into a cutting, bending- or punching machine within seconds. Busbar fabrication from a single mould: Precise, simple and quick.</p>	<ul style="list-style-type: none"> -Especially robust and stiff frame. -Very high quality cutting, bending and punching. -High operating safety with the built-in safety system. -Lightning-swift tool changes with a minimum of manipulation. -The 150 bar low-pressure system ensures a long service life and very fast cycle times. -Punches copper and aluminium busbars up to 13 mm thick, elongated holes up to 21 x 14 mm and round holes up to 21 mm in diameter. -Busbars bent accurately up to 120° very accurate reproducibility of the set angle. 	<p>Depth 750 mm Width 750 mm Height 1.145 mm Weight 180 kg Operating Pressure 150 bar Force 180 KN Power rating 0.75 kW Voltage 230 V 1~/50 Hz Cutting max. 125 x 13 mm 250 N/mm² Punching max. ø 21 mm Bending max. 125 x 13 mm 250 N/mm²</p>



Model No. BGD-5eco The Digital Bending Bench		
Features	Advantages	Technical
<p>The BGD-5eco sets a new standard for bus bar bending with outstanding precision and speed at economical prices. No other bending machine will match it's range of features and performance at low entry price levels. Equipped with the essential - Digital Angle Encoder - the BGD-5eco offers unsurpassed simplicity and control with full automatic spring back compensation and bending accuracy to 0.2 degrees. Consequently it will vanquish any need for trial bends and significantly reduce cost on faulty bend busbars. On top, the digital stroke encoder minimizes idle movement for the absolute shortest cycle times. Additional accessories like step or edge benders, are also easy and precisely controlled by the digital stroke encoder. The new integrated hydraulic power pack takes bending speeds to new levels - 11.5 seconds* - for a finished 90 degree bend including full automatic spring back compensation</p>	<ul style="list-style-type: none"> -Unsurpassed bending features at economic price. -Digital Angle Encoder with precision to 0.2 degrees. -Full automatic spring back compensation. -No trial bends. No set up times. -Digital Stroke Encoder for minimum cycle times. -Supplied with built in high performance 3-phase power pack. -Optional step- and edge bending tools, for special bending applications. -Tight L-, U- and Z- bends possible. -Mobile machine on wheels for ease of use. 	<p>Depth 950 mm Width 830 mm Height 1.330 mm Weight 170 kg Operating Pressure 200 bar Force 180 KN Bending capacity max. 160 x 13 mm (6□ x 1/2□) Bending radius adaptors 7.5, 10, 15 mm Power rating 0.75 kW Voltage 400 V 3~/50 Hz. Oil_ow 3.6 l/min. Cycle time* 11.5 sec. Cycle time** (repeat operation) 9.4 sec. Minimum L-Bend 25 mm Minimum U-Bend 60 mm Minimum Z-Bend 70 mm * 90° bend, 120 x 10 mm busbar size, return stroke incl. full automatic spring back compensation. ** 90° bend, 120 x 10 mm busbar size repeated operation.</p>

BUS BAR FABRICATION

BUS BAR FABRICATION (MADE IN GERMANY)



Model No. BGD-5 The Digital Bending Bench

Features	Advantages	Technical
Based on an embedded Windows XP System, the BGD-5 offers incomparable easy WYSIWYG programming, with a full graphical user interface. No CNC, or whatsoever programming skills are requested, even the most complicated busbar figures are edited with the ease of a few clicks. Complete work pieces are displayed on the 12" LCD display, before starting the initial bending operation. During bending operation the digital angle measurement with full automatic spring back compensation, will ensure outstanding accuracy of ± 0.2 degree. The automatic length stop, will travel up to 800 mm, positioning your bus bar within seconds and a precision of 0.2 mm. Last but not least, the integrated 3-phase/400 V power pack takes care of convincing cycle times, at only 11.5 sec. for a full 90 degree bend including spring back compensation.	<ul style="list-style-type: none">-Latest Windows XP technology with 12"-LCD display.-Unmatched, full graphical WYSIWYG programming.-USB for backups and remote editing.-Digital angle encoder with precision to 0.2 degrees.-Full automatic spring back compensation.-No trial bends. No set up times.-Digital stroke encoder for minimum cycle times.-Supplied with built in high performance 3-phase power pack.-Optional step- and edge bending tools, for special bending applications.-Tight L-, U- and Z- bends possible.-Mobile machine on wheels for ease of use.	<p>Depth 900 mm Width 1.630 mm Height 1.530 mm Weight 370 kg Operating Pressure 200 bar Force 180 KN Bending capacity max. 160 x 13 mm Length stop travel 800 mm Bending radius adaptors 7.5, 10, 15 mm Power rating 1.2 kW Voltage 400 V 3~/50 Hz. Oil flow 3.6 l/min. Cycle time* 11.5 sec. Cycle time** (repeat operation) 9.4 sec. Minimum L-Bend 25 mm Minimum U-Bend 60 mm Minimum Z-Bend 70 mm * 90° bend, 120 x 10 mm busbar size, return stroke incl. full automatic spring back compensation. ** 90° bend, 120 x 10 mm busbar size repeated operation.</p>

PUNCH

Model No.	Description
40800	HSBL-2 DigiPunch 160 (containing punch with digital measuring system, adjustable work-bench, 2 x 2 m conveyor system, supports for conveyors)



Continued

BUS BAR FABRICATION (MADE IN GERMANY)



PUNCH Continued

Model No. HSBL-2 DigiPunch 160		
Features	Advantages	Technical
With the brand-new "DigiPunch 160", Novopress offers a new class of busbar punching performance for medium sized Businesses. Wherever ordinary manual punches are insufficient and CNC-controlled machines are too costly, the new "DigiPunch 160" is the ideal mid-size solution. It reduces manufacturing time and cost significantly compared to manual punches at a very modest investment compared to CNC-punches. The very practical configuration with digital metering in X/Y axis and complete conveyors, enables a very efficient and flexible busbar manufacturing.	Significantly reduced manufacturing cost on medium to medium-large output volume. Optimized and speedy workflow through integrated conveyor system and work-bench. No programming or preparatory work required, very short set-up times. Fast and stepless positioning of busbars in X and Y axis, with 0.5 mm accuracy. Switching from absolute- to chain measurement for fast and easy progressive punching.	All necessary components except hyd. power pack and work cylinder are included in delivery. For operation only a regular 110V/60Hz or 220V/50Hz power source is needed. The LCD measuring system works on a permanent battery basis. Possible hydr. Power Packs: HA 1 - ES, HA 3 and HA 4. Length 4.300 mm Width 550 mm Height 1.900 mm Weight 170 kg Operating pressure 150 bar Force 150 KN

POWER PACK

Model No.	Description
32530	Power Pack HA 3
33340	Power Pack HA 3 incl. 24 V controls



Model No.		
Features	Advantages	Technical
Leaders when it comes to switchgear manufacturing. Novopress hydraulic power packs are designed to operate at a low 150 bar over a wide range of applications. This design combines the clear advantages of increased work safety, and long service life for the tool and its attached devices. In addition, these hydraulic power packs are a byword for the high quality associated with all Novopress products.	For heavy duty applications and continuous production, the HA 3 Power Pack, is the professional choice. With a high performance drive and extended oil volume, the HA 3 is the ideal power pack for demanding busbar production, and/or continuous cable assembly. Available with or without 24 V controls for hand operated crimping tools.	Drive 230 V - 750 W, 4 A Weight 26 kg Height 550 mm Length 270 mm Width 260 mm Oil capacity 5.5 l Operation S 3 S 1= Safety class IP 55 Hydraulic hose 2.5 m Operating pressure 150 bar Oil flow 4.0 l/min.

BUS-BAR BEND CUT

BUS BAR EQUIPMENT



HYDRAULIC BUS BAR CUTTER



Model No	BBC-125	BBC-150
Working Pressure (Bar)	700	700
Output (Tonnes)	10	35
Weight (kg)	16	35
Bus Bar Capacity Cu & Al (mm)	125 x 12	150 x 15

HYDRAULIC BUS BAR BENDER



Model No.	B-200
Output (Tonnes)	10
Weight (kg)	20
Bus Bar Capacity (mm)	200 x 10 Cu 200 x 16 Al
Former Bending Radius (mm)	8 + 12 Cu 30 + 48 Al
Maximum Bending Angle	90° (Optional 90° Bending Block and 12mm former for bending repeat 90° bends is also available – Model No. B200/90)

HYDRAULIC BUS BAR BENDER - TRIS WORK UNIT



Contact SF for more detail

Model No.	9046
Output (Tonnes)	30
Pressure (Bar)	700
Weight (kg)	192
Bus Bar Capacity (mm)	Punches bars up to 15 Cuts bars up to 160x15 Bends bars up to 200x20
Dimensions (mm)	1200 L x 700 W x 520 H
Adjustable Stroke (mm)	65
Supplied with	1m Rule, Set of Adaptors

ASSOCIATED EQUIPMENT



DSP-120 240V ELECTRIC HYDRAULIC PUMP

Refer to page C22



SH-70B HYDRAULIC BUS BAR PUNCH

Refer to page J7

NOTES

HOLE MAKING & BENDING

K. REFERENCE TABLES

K1 – K10

CONVERSIONS MCM KCMIL MM2 MMOD AWG	K1-K2
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IMPERIAL FRACTIONS TO METRIC MILLIMETERS	K3
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HV XLPE INSULATED NON METALLIC ABC HDPE*	K9
HV XLPE INSULATED METALLIC*	K10
HV XLPE INSULATED METALLIC*	K10

Information should be used as a reference only.

* Overhead conductor information was sourced from **Olex (a Nexans company) Aerial Catalogue 2008**.

Olex reserves the right to change or vary their products without notice, visit www.olex.com.au for more information.

Australian Powerline Industries accepts no liability of any kind resulting from the information provided herein.

CONVERSIONS MCM kcmil mm2 mmOD AWG

LOGICAL AWG NUMBER	AWG (and "Aught" */0 Equiv)	MCM or kcmil	CIRCULAR MILS	Cross Section mm2	Max Metric UL 486 Equivalent mm2	Cross Section in2	Diameter SOLID inch	Diameter SOLID mm	Diameter Typ. Stranded inch Approx. Max.
41	41		8	0.00397		0.0000062	0.0028	0.071	
40	40		10	0.00501		0.0000078	0.0031	0.080	
39	39		12	0.00632		0.0000098	0.0035	0.090	
38	38		16	0.00797		0.0000123	0.0040	0.101	
37	37		20	0.01005		0.0000156	0.0045	0.113	
36	36		25	0.01267		0.0000196	0.0050	0.127	
35	35		32	0.01597		0.0000248	0.0056	0.143	
34	34		40	0.02014		0.0000312	0.0063	0.160	
33	33		50	0.02540		0.0000394	0.0071	0.180	
32	32		63	0.03203		0.0000496	0.0080	0.202	
31	31		80	0.04039		0.0000626	0.0089	0.227	
30	30		100	0.05093	0.05000	0.0000789	0.0100	0.255	
29	29		127	0.06422		0.0000995	0.0113	0.286	
28	28		160	0.08097		0.000126	0.0126	0.321	
27	27		201	0.10211		0.000158	0.0142	0.361	
26	26		254	0.12875		0.000200	0.0159	0.405	
25	25		320	0.16235		0.000252	0.0179	0.455	
24	24		404	0.20473	0.20000	0.000317	0.0201	0.511	
23	23		509	0.25815		0.000400	0.0226	0.573	
22	22		642	0.32552	0.32000	0.000505	0.0253	0.644	
21	21		810	0.41048		0.000636	0.0285	0.723	
20	20		1021	0.51760		0.000802	0.0320	0.812	0.036
19	19		1288	0.65268		0.00101	0.0359	0.912	
18	18		1624	0.82301		0.00128	0.0403	1.02	0.046
17	17		2048	1.03780		0.00161	0.0453	1.15	
16	16		2582	1.30864	1.30000	0.00203	0.0508	1.29	0.058
15	15		3256	1.65016		0.00256	0.0571	1.45	
14	14		4106	2.08080	2.10000	0.00323	0.0641	1.63	0.073
13	13		5178	2.62384		0.00407	0.0720	1.83	
12	12		6529	3.30859	3.30000	0.00513	0.0808	2.05	0.092
11	11		8233	4.17204		0.00647	0.0907	2.30	
10	10	10	10382	5.26084	5.30000	0.00815	0.102	2.59	0.116
9	9	13	13091	6.63377		0.0103	0.114	2.91	0.130
8	8	17	16507	8.36501	8.40000	0.0130	0.128	3.26	0.146
7	7	21	20815	10.5481		0.0163	0.144	3.66	0.164
6	6	26	26248	13.3008	13.30000	0.0206	0.162	4.12	0.184
5	5	33	33098	16.7720		0.0260	0.182	4.62	0.206
4	4	42	41735	21.1490		0.0328	0.204	5.19	0.232
3	3	53	52627	26.6684	26.70000	0.0413	0.229	5.83	0.260
2	2	66	66361	33.6281	33.60000	0.0521	0.258	6.54	0.292
1	1	84	83680	42.4042		0.0657	0.289	7.35	0.332
0	1	/ 0	106	105518	53.4705	0.0829	0.325	8.25	0.373
-1	2	/ 0	133	133056	67.4249	0.1045	0.365	9.27	0.419
-2	3	/ 0	168	167780	85.0210	0.1318	0.410	10.40	0.471
-3	4	/ 0	212	211566	107.209	0.1662	0.460	11.68	0.528
-3.7	4.7	/ 0	250	250000	126.677	0.1963	0.500	12.70	0.575

LOGICAL AWG NUMBER	AWG (and "Aught" */0 Equiv)		MCM or kcmil	CIRCULAR MILS	Cross Section mm ²	Max Metric UL 486 Equivalent mm ²	Cross Section in ²	Diameter SOLID inch	Diameter SOLID mm	Diameter Typ. Stranded inch Approx. Max.
-4.5	5.5	/ 0	300	300000	152.012		0.2356	0.548	13.91	0.630
-5.2	6.2	/ 0	350	350000	177.348		0.2749	0.592	15.03	0.681
-5.7	6.7	/ 0	400	400000	202.683		0.3142	0.632	16.06	0.728
-6.3	7.3	/ 0	450	450000	228.018		0.3534	0.671	17.04	
-6.7	7.7	/ 0	500	500000	253.354		0.3927	0.707	17.96	0.814
-7.5	8.5	/ 0	600	600000	304.025		0.4712	0.775	19.67	0.893
-8.2	9.2	/ 0	700	700000	354.695		0.5498	0.837	21.25	0.964
-8.5	9.5	/ 0	750	750000	380.031		0.5890	0.866	22.00	0.999
-8.7	9.7	/ 0	800	800000	405.366		0.6283	0.894	22.72	1.032
-9.2	10.2	/ 0	900	900000	456.037		0.7069	0.949	24.10	
-9.7	10.7	/ 0	1000	1000000	506.708	508.00000	0.7854	1.000	25.40	1.153
-10.7	11.7	/ 0	1250	1250000	633.384		0.9817	1.118	28.40	1.289
-11.4	12.4	/ 0	1500	1500000	760.061		1.1781	1.225	31.11	1.413
-12.1	13.1	/ 0	1750	1750000	886.738		1.3744	1.323	33.60	
-12.7	13.7	/ 0	2000	2000000	1013.415	1016.00000	1.5708	1.414	35.92	1.632

"Aught" probable old English contraction of "On(e n)aught" (1/0) or "one oh". Naught = no thing in old English or zero. Therefore "two naught" (2/0) is spoken "two 'aught" and so on.

MCM means 1000's (M) of (C)ircular (M)ils

KCMIL means 1000's (K) of (C)ircular (M)ils

Mil means 1/1000 inch

Circular Mil means the area of a circle 1/1000 inch in diameter

AWG = $-4.3125 \text{ LN (mm}^2) + 17.16$ (approx. interpolated)

AWG = $-4.3125 \text{ LN (inch}^2) - 10.74$ (approx. interpolated)

Logical AWG numbers are based on continuing the series in a logarithmic relationship to the cross sectional area of the wire.

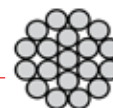
PVC ELECTRICAL CONDUIT

Nom Size (mm)	O.D. (mm)	H/Duty Wall Thickness (mm)	M/Duty Wall Thickness (mm)
16	16	-	1.75
20	20	2.45	1.95
25	25	2.65	1.95
32	32	2.85	2.25
40	40	3.25	2.55
50	50	3.65	2.95
63	63	4.20	-
80	89	4.95	-
100	114.2	6.30	4.85
125	140	7.65	-
150	160.2	8.80	-

IMPERIAL FRACTIONS TO METRIC MILLIMETERS

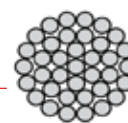
Fractions	mm	Fractions	mm	Fractions	mm
1/64	0.3968	23/64	9.1279	11/16	17.46210
1/32	0.7937	3/8	9.5248	45/64	17.85900
3/64	1.1906	25/64	9.9216	23/32	18.25590
1/16	1.5874	13/32	10.3185	47/64	18.65270
5/64	1.9843	27/64	10.7154	3/4	19.04960
3/32	2.3812	7/16	11.1122	49/64	19.44650
7/64	2.7780	29/64	11.5091	25/32	19.84330
1/8	3.1749	15/32	11.9060	51/64	20.24020
9/64	3.5718	31/64	12.3029	13/16	20.63710
5/32	3.9686	1/2	12.6997	53/64	21.03390
11/64	4.3655	33/64	13.0966	27/32	21.43080
3/16	4.7624	17/32	13.4934	55/64	21.82770
13/64	5.1592	35/64	13.8903	7/8	22.22450
7/32	5.5561	9/16	14.2872	57/64	22.62140
15/64	5.9530	37/64	14.6841	29/32	23.01830
1/4	6.3498	19/32	15.0809	59/64	23.41510
17/64	6.7467	39/64	15.4778	15/16	23.81200
9/32	7.1436	5/8	15.8747	61/64	24.2089
19/64	7.5404	41/64	16.27150	31/32	24.60570
5/16	7.9373	21/32	16.66840	63/64	25.00260
21/64	8.3342	43/64	17.06530	1	25.40000
11/32	8.7310				

BARE CONDUCTORS TYPE AAC (ALUMINIUM CONDUCTORS MANUFACTURED TO AS 1531)



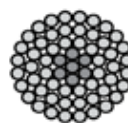
Conductor Codename & OLEX Product Code	Stranding & Wire OD (no/mm)	Nominal OD (mm)	Cross-Sectional Area (mm ²)	Approx. Mass (kg/km)	Breaking Load (kN)
Leo	7/2.50	7.50	34.4	94.3	5.71
Leonids	7/2.75	8.25	41.6	113.0	6.72
Libra	7/3.00	9.00	49.5	135.0	7.98
Mars	7/3.75	11.30	77.3	211.0	11.80
Mercury	7/4.50	13.50	111.0	304.0	16.90
Moon	7/4.75	14.30	124.0	339.0	18.90
Neptune	19/3.25	16.30	158.0	433.0	24.70
Orion	19/3.50	17.50	183.0	503.0	28.70
Pluto	19/3.75	18.80	210.0	576.0	31.90
Saturn	37/3.00	21.00	262.0	721.0	42.20
Sirius	37/3.25	22.80	307.0	845.0	48.20
Taurus	19/4.75	23.80	337.0	924.0	51.30
Triton	37/3.75	26.30	409.0	1120.0	62.20
Uranus	61/3.25	29.30	506.0	1400.0	75.20
Ursula	61/3.50	31.50	587.0	1620.0	87.30
Venus	61/3.75	33.80	673.0	1860.0	97.20

**BARE CONDUCTORS TYPE AAAC/1120 (ALUMINIUM ALLOY 1120 CONDUCTORS
MANUFACTURED TO AS 1531)**

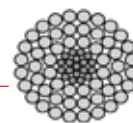


Conductor Codename & Product Code	Stranding & Wire OD (no/mm)	Nominal OD (mm)	Cross-Sectional Area (mm ²)	Approx. Mass (kg/km)	Breaking Load (kN)
Chlorine	7/2.50	7.50	34.4	94.3	8.18
Chromium	7/2.75	8.25	41.6	113.0	9.91
Fluorine	7/3.00	9.00	49.5	135.0	11.80
Helium	7/3.75	11.30	77.3	211.0	17.60
Hydrogen	7/4.50	13.50	111.0	304.0	24.30
Iodine	7/4.75	14.30	124.0	339.0	27.10
Krypton	19/3.25	16.30	158.0	433.0	37.40
Lutetium	19/3.50	17.50	183.0	503.0	41.70
Neon	19/3.75	18.80	210.0	576.0	47.80
Nitrogen	37/3.00	21.00	262.0	721.0	62.20
Nobelium	37/3.25	22.80	307.0	845.0	72.80
Oxygen	19/4.75	23.80	337.0	924.0	73.60
Phosphorus	37/3.75	26.30	409.0	1120.0	93.10
Selenium	61/3.25	29.30	506.0	1400.0	114.00
Silicon	61/3.50	31.50	587.0	1620.0	127.00
Sulfur	61/3.75	33.80	673.0	1860.0	145.00

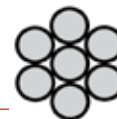
**BARE CONDUCTORS TYPE ACSR/AC (ALUMINIUM CONDUCTORS,
ALUMINIUM-CLAD STEEL REINFORCED MANUFACTURED TO AS 3607)**



Codename & Product Code	Stranding & Wire	Nominal OD (mm)	Cross- Sectional Area (mm ²)	Approx. Mass (kg/km)	Breaking Load (kN)
	Aluminium OD (no/mm)	Steel OD (no/ mm)			
Angling	6/2.50	1/2.50	7.5	113	10.6
Aquatics	6/2.75	1/2.75	8.3	137	12.7
Archery	6/3.00	1/3.00	9.0	163	15.1
Baseball	6/3.75	1/3.75	11.3	254	22.3
Bowls	6/4.75	7/1.60	14.3	385	32.7
Cricket	30/2.50	7/2.50	17.5	636	64.4
Darts	30/3.00	7/3.00	21.0	913	91.6
Dice	30/3.25	7/3.25	22.8	1070	106.0
Diving	30/3.50	7/3.50	24.5	1240	122.0
Golf	54/3.00	7/3.00	27.0	1380	120.0
Gymnastics	54/3.25	7/3.25	29.3	1620	139.0
Hurdles	54/3.50	7/3.50	31.5	1880	159.0
Lacrosse	54/3.75	19/2.25	33.8	2150	180.0
Skating	3/1.75	4/1.75	5.3	83	12.3
Soccer	3/2.50	4/2.50	7.5	171	24.9
Swimming	4/3.00	3/3.00	9.0	218	28.9
Tennis	4/3.75	3/3.75	11.3	340	42.6

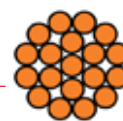
BARE CONDUCTORS TYPE ACSR/GZ (ALUMINIUM CONDUCTORS, GALVANISED STEEL REINFORCED MANUFACTURED TO AS 3607)


Codename & Product Code	Stranding & Wire		Nominal OD (mm)	Cross-Sectional Area (mm ²)	Approx. Mass (kg/km)	Breaking Load (kN)
	Aluminium OD (no/mm)	Steel OD (no/mm)				
Almond	6/2.50	1/2.50	7.5	34.4	119	10.5
Apricot	6/2.75	1/2.75	8.3	41.6	144	12.6
Apple	6/3.00	1/3.00	9.0	49.5	171	14.9
Banana	6/3.75	1/3.75	11.3	77.3	268	22.7
Cherry	6/4.75	7/1.60	14.3	120.0	402	33.4
Grape	30/2.50	7/2.50	17.5	182.0	677	63.5
Lemon	30/3.00	7/3.00	21.0	262.0	973	90.4
Lychee	30/3.25	7/3.25	22.8	307.0	1140	105.0
Lime	30/3.50	7/3.50	24.5	356.0	1320	122.0
Mango	54/3.00	7/3.00	27.0	431.0	1440	119.0
Orange	54/3.25	7/3.25	29.3	506.0	1690	137.0
Olive	54/3.50	7/3.50	31.5	587.0	1960	159.0
Pawpaw	54/3.75	19/2.25	33.8	672.0	2240	178.0
Quince	3/1.75	4/1.75	5.3	16.8	95	12.7
Raisin	3/2.50	4/2.50	7.5	34.4	195	24.4
Sultana	4/3.00	3/3.00	9.0	49.5	243	28.3
Walnut	4/3.75	3/3.75	11.3	77.3	380	43.9

BARE CONDUCTORS TYPE SC/GZ & SC/AC (GALVANISED STEEL CONDUCTORS MANUFACTURED TO AS 1222.1 AND ALUMINIUM-CLAD STEEL CONDUCTORS MANUFACTURED TO AS 1222.2)


Codename & Product Code	Stranding & Wire OD (no/mm)	Nominal OD (mm)	Cross-Sectional Area (mm ²)	Approx. Mass (kg/km)	Breaking Load (kN)
GALSTEEL 3/2.00	3/2.00	4.3	9.4	74	11.70
GALSTEEL 3/2.75	3/2.75	5.9	17.8	140	22.20
GALSTEEL 7/2.00	7/2.00	6.0	22.0	173	26.00
GALSTEEL 7/2.75	7/2.75	8.3	41.6	328	49.00
GALSTEEL 7/3.25	7/3.25	9.8	58.1	458	68.70
GALSTEEL 7/3.75	7/3.75	11.3	77.3	609	91.30
GALSTEEL 19/2.00	19/2.00	10.0	59.7	473	70.50
GALSTEEL 19/2.7	19/2.75	13.8	113.0	894	133.00
GALSTEEL 19/3.25	19/3.25	16.3	158.0	1250	186.00

**BARE CONDUCTORS HARD DRAWN COPPER (HARD DRAWN COPPER CONDUCTORS
MANUFACTURED TO AS 1746)**



Stranding & Wire OD (no/mm)	Nominal OD (mm)	Cross-Sectional Area (mm ²)	Approx. Mass (kg/ km)	Breaking Load (kN)
7/1.00	3.00	5.5	49.3	2.3
7/1.25	3.75	8.6	76.9	3.6
7/1.75	5.25	16.8	151.0	6.9
7/2.00	6.00	22.0	197.0	8.9
7/2.75	8.25	41.6	375.0	16.2
19/1.75	8.75	45.7	413.0	18.3
19/2.00	10.00	59.7	538.0	23.6
7/3.50	10.50	67.4	607.0	25.4
7/3.75	11.30	77.3	696.0	28.8
37/1.75	12.30	89.0	806.0	35.6
19/2.75	13.80	113.0	1020.0	43.1
19/3.00	15.00	134.0	1210.0	50.8
37/2.50	17.50	182.0	1640.0	70.3
37/2.75	19.30	220.0	1990.0	83.9
37/3.00	21.00	262.0	2370.0	98.9
61/2.75	24.80	362.0	3290.0	138.0

**LV XLPE INSULATED AERIAL BUNDLED CABLES 2/3/4 CORE ALUMINIUM
0.6/1KV XLPE (X-90) INSULATED, AERIAL BUNDLED CABLES
(SERVICE AND MAINS CABLES) TO AS/NZS 3560.1. HARD DRAWN ALUMINIUM
CONDUCTORS.**



Cross- Sectional Area (mm2)	Nominal Conductor OD (mm)	Average Insulation Thickness (mm)	Nominal Diameter Over Insulation (mm)	Nominal Diameter Over Laid-Up Cores (mm)	Approx. Mass (kg/km)	Minimum Bending Radius - Installed (mm)		Min. Breaking Load of Cable (kN)	Rec. Tension	
						Core	Cable		Highest Everyday Tension (kN)	Max Working Tension (kN)
2 Core										
16	4.7	1.3	7.4	14.8	130	30	90	4.4	0.79	1.23
25	5.9	1.3	8.6	17.2	190	35	100	7.0	1.26	1.96
35	6.9	1.3	9.6	19.3	250	60	120	9.8	1.76	2.74
50	8.1	1.5	11.2	22.3	340	65	130	14.0	2.52	3.92
95	11.4	1.7	14.9	29.8	640	90	270	26.6	4.79	7.45
3 Core										
25	5.9	1.3	8.6	18.5	290	35	110	10.5	1.89	2.94
35	6.9	1.3	9.6	20.8	370	60	120	14.7	2.65	4.12
50	8.1	1.5	11.2	24.1	510	65	140	21.0	3.78	5.88
4 Core										
16	4.7	1.3	7.4	17.8	270	30	110	8.8	1.58	2.46
25	5.9	1.3	8.6	20.8	390	35	120	14.0	2.52	3.92
35	6.9	1.3	9.6	23.2	500	60	140	19.6	3.53	5.49
50	8.1	1.5	11.2	27.0	670	65	160	28.0	5.04	7.84
70	9.7	1.5	12.8	30.8	930	75	280	39.2	7.06	11.00
95	11.4	1.7	14.9	36.0	1280	90	320	53.2	9.58	14.90
120	12.8	1.7	16.3	39.3	1570	100	350	67.2	12.10	18.80
150	14.2	1.7	17.7	42.8	1890	110	390	84.0	15.10	23.50

LV XLPE INSULATED AERIAL BUNDLED CABLES 2/3/4 CORE COPPER
0.6/1KV XLPE (X-90) INSULATED AERIAL BUNDLED CABLES (SERVICE CABLES) TO
AS/NZS 3560.2. HARD DRAWN COPPER CONDUCTORS.



Nominal Conductor Area (mm2)	No. & Nominal X of Wires (No/mm)	Nominal Conductor X (mm)	Average Insulation Thickness (mm)	Nominal Diametre Over Insulation (mm)	Nominal Diametre Over Laid-Up Cores (mm)	Approx. Mass (kg/km)	Minimum Bending Radius - Installed (mm)		Min. Breaking Load of Cable (kN)	Rec. Tension	
							Core	Cable		Highest Everyday Tension (kN)	Max Working Tension (kN)
2 Core											
6	7/1.04	3.1	1.3	5.8	11.7	150	25	70	4.6	0.84	1.30
10	7/1.35	4.1	1.3	6.8	13.5	230	25	80	7.8	1.41	2.20
16	7/1.70	5.1	1.3	7.8	15.6	350	30	95	11.8	2.13	3.32
3 Core											
6	7/1.04	3.1	1.3	5.8	12.6	220	25	75	7.0	1.25	1.95
10	7/1.35	4.1	1.3	6.8	14.6	340	25	90	11.8	2.12	3.29
16	7/1.70	5.1	1.3	7.8	16.9	520	30	100	17.8	3.20	4.97
4 Core											
6	7/1.04	3.1	1.3	5.8	14.1	290	25	85	9.3	1.67	2.60
10	7/1.35	4.1	1.3	6.8	16.3	460	25	100	15.7	2.82	4.39
16	7/1.70	5.1	1.3	7.8	18.9	690	30	110	23.7	4.26	6.63

PVC INSULATED AERIAL CABLES SINGLE/2/3 CORE COPPER
0.6/1KV PVC INSULATED AERIAL CABLES TO AS/NZS 5000.1.
HARD DRAWN COPPER CONDUCTORS.



Nominal Conductor Area (mm2)	No. & Nominal X of Wires (No/mm)	Nominal Conductor X (mm)	Average Insulation Thickness (mm)	Nominal Diametre Over Insulation (mm)	Approx. Mass (kg/km)	Minimum Bending Radius - Installed (mm)	Min. Breaking Load of Cable (kN)	Rec. Tension	
								Highest Everyday Tension (kN)	Max Working Tension (kN)
Single Core									
6	7/1.04	3.1	1.0	5.3	80	20	2.3	0.42	0.65
10	7/1.35	4.1	1.0	6.2	120	25	3.9	0.71	1.10
16	7/1.70	5.1	1.0	7.2	180	30	5.9	1.07	1.66
25	19/1.35	6.8	1.2	9.3	300	35	10.4	1.87	2.91
35	19/1.53	7.7	1.2	10.2	370	60	12.7	2.29	3.56
50	19/1.78	8.9	1.4	11.9	510	70	17.3	3.11	4.84
70	19/2.14	10.7	1.4	13.7	710	80	25.0	4.50	7.00
2 Core									
6	7/1.04	3.1	1.0	5.3 x 11.1	150	30	4.6	0.84	1.30
10	7/1.35	4.1	1.0	6.2 x 13.0	240	35	7.8	1.41	2.20
16	7/1.70	5.1	1.0	7.2 x 15.1	360	45	11.8	2.13	3.32
25	19/1.35	6.8	1.2	9.3 x 19.2	600	55	20.8	3.74	5.82
3 Core									
6	7/1.04	3.1	1.0	5.3 x 17.0	230	30	7.0	1.25	1.95
10	7/1.35	4.1	1.0	6.2 x 19.8	360	35	11.8	2.12	3.29
16	7/1.70	5.1	1.0	7.2 x 22.9	540	45	17.8	3.20	4.97

PVC INSULATED TWISTED AERIAL CABLES 2/3/4 CORE COPPER
0.6/1KV PVC INSULATED TWISTED AERIAL CABLES TO AS/NZS 5000.1. HARD
DRAWN COPPER CONDUCTORS.



Nominal Conductor Area (mm2)	No. & Nominal X of Wires (No/mm)	Nominal Conductor X (mm)	Average Insulation Thickness (mm)	Nominal Diametre Over Insulation (mm)	Nominal Diametre Over Laid-Up Cores (mm)	Approx. Mass (kg/km)	Minimum Bending Radius - Installed (mm)		Min. Breaking Load of Cable (kN)	Rec. Tension	
							Core	Cable		Highest Everyday Tension (kN)	Max Working Tension (kN)
2 Core											
6	7/1.04	3.1	1	5.3	10.5	160	20	65	4.6	0.84	1.30
10	7/1.35	4.1	1	6.2	12.4	240	25	75	7.8	1.41	2.20
16	7/1.70	5.1	1	7.2	14.5	370	30	85	11.8	2.13	3.32
25	19/1.35	6.8	1.2	9.3	18.6	610	35	110	20.8	3.74	5.82
3 Core											
6	7/1.04	3.1	1	5.3	11.3	240	20	70	7.0	1.25	1.95
10	7/1.35	4.1	1	6.2	13.3	360	25	80	11.8	2.12	3.29
16	7/1.70	5.1	1	7.2	15.6	550	30	95	17.8	3.20	4.97
25	19/1.35	6.8	1.2	9.3	20.1	910	35	120	31.2	5.62	8.74
4 Core											
6	7/1.04	3.1	1	5.3	12.7	310	20	75	9.3	1.67	2.60
10	7/1.35	4.1	1	6.2	14.9	480	25	90	15.7	2.82	4.39
16	7/1.70	5.1	1	7.2	17.5	730	30	100	23.7	4.26	6.63
25	19/1.35	6.8	1.2	9.3	22.5	1210	35	140	41.6	7.49	11.60

COVERED CONDUCTOR TYPE CCT

6.35/11, 12.7/22 & 19/33KV XLPE COVERED AERIAL CABLES TO AS/NZS 3675.

WATERBLOCKED ALUMINIUM ALLOY 1120 CONDUCTORS. ALSO AVAILABLE WITH XLPE/HDPE COVERING.



Nominal Conductor Area (mm2)	No. & Nominal X of Wires (No/mm)	Nominal Conductor X (mm)	Average Insulation Thickness (mm)	Nominal Diametre Over Insulation (mm)	Approx. Mass (kg/km)	Minimum Bending Radius - Installed (mm)	Min. Breaking Load of Cable (kN)	Rec. Tension	
								Highest Everyday Tension (kN)	Max Working Tension (kN)
6.35/11kV									
40	7/2.75	8.4	3.4	15.8	260	240	9.9	1.49	4.96
80	7/3.75	11.4	3.4	18.8	400	280	17.6	2.64	8.80
120	7/4.75	14.5	3.4	21.9	580	330	27.1	4.07	13.60
180	19/3.50	17.7	3.4	25.0	790	380	41.7	6.26	20.90
240	19/4.01	20.2	3.4	27.7	1000	420	52.3	7.85	26.20
12.7/22kV									
80	7/3.75	11.4	5.5	23.0	530	350	17.6	2.64	8.80
120	7/4.75	14.5	5.5	26.1	720	390	27.1	4.07	13.60
180	19/3.50	17.7	5.5	29.2	960	440	41.7	6.26	20.90
19/33kV									
80	7/3.75	11.4	8	28.0	710	420	17.6	2.64	8.80
120	7/4.75	14.5	8	31.1	930	470	27.1	4.07	13.60
180	19/3.50	17.7	8	34.2	1190	510	41.7	6.26	20.90

HV XLPE INSULATED NON METALLIC SCREENED ABC**6.35/11 & 12.7/22KV XLPE INSULATED NON METALLIC SCREENED AERIAL BUNDLED CABLES TO AS/NZS 3599.2. ALUMINIUM CONDUCTORS, ALUMINIUM ALLOY 1120 SUPPORT CONDUCTOR.**

Nominal Conductor Area (mm2)	Nominal Conductor Diameter (mm)	Average Insulation Thickness (mm)	Nominal Diameter Over Core (mm)	Average Insulation Screen Thickness (mm)	Nominal Diameter Over Core (mm)	AAAC/1120 Support Conductor		Nominal Overall Diameter (mm)	Approx. Mass (kg/km)	Minimum Bending Radius - Installed (mm)	
						Size (No./mm)	Diameter (mm)			Core	Cable
6.35/11kV											
35	6.9	3.4	14.9	1	17.1	7/4.75	14.3	48.4	1170	260	480
50	8.1	3.4	16.0	1	18.2	7/4.75	14.3	50.7	1320	270	510
70	9.6	3.4	17.6	1	19.8	7/4.75	14.3	53.9	1560	300	540
95	11.4	3.4	19.3	1	21.5	7/4.75	14.3	57.3	1860	320	570
120	12.8	3.4	20.7	1	22.9	19/3.50	17.5	63.3	2280	340	630
150	14.2	3.4	22.1	1	24.3	19/3.50	17.5	66.2	2570	360	660
185	15.7	3.4	23.6	1	25.8	19/3.50	17.5	69.2	2890	390	690
12.7/22kV											
35	6.9	5.5	19.2	1	21.4	7/4.75	14.3	57.1	1540	320	570
50	8.1	5.5	20.3	1	22.5	7/4.75	14.3	59.3	1710	340	590
70	9.6	5.5	21.9	1	24.1	7/4.75	14.3	62.5	1990	360	630
95	11.4	5.5	23.6	1	25.8	7/4.75	14.3	66	2310	390	660
120	12.8	5.5	25.0	1	27.2	19/3.50	17.5	72	2760	410	720
150	14.2	5.5	26.4	1.1	28.8	19/3.50	17.5	75.2	3100	430	750
185	15.7	5.5	27.9	1.1	30.3	19/3.50	17.5	78.2	3460	460	780

Stranding & Nominal Wire X (No./mm)	Nominal Overall Diameter (mm)	Cross-sectional Area (mm ²)	Minimum Breaking Load (kN)	Rec. Tension	
				Highest Everyday (kN)	Max. Working (kN)
7/4.75	14.3	124.0	27.1	4.1	13.6
19/3.50	17.5	182.8	41.7	6.3	20.9

**HV XLPE INSULATED NON METALLIC ABC HDPE****6.35/11 & 12.7/22KV XLPE INSULATED NON METALLIC SCREENED AERIAL BUNDLED CABLES WITH HDPE COVERING TO AS/NZS 3599.2. ALUMINIUM CONDUCTORS, ALUMINIUM ALLOY 1120 SUPPORT CONDUCTOR.**

Nominal Conductor Area (mm2)	Nominal Conductor Diameter (mm)	Average Insulation Thickness (mm)	Nominal Diameter Over Core (mm)	Average Insulation Screen Thickness (mm)	Nominal Diameter Over Core (mm)	AAAC/1120 Support Conductor		Nominal Overall Diameter (mm)	Approx. Mass (kg/km)	Minimum Bending Radius - Installed (mm)	
						Size (No./mm)	Diameter (mm)			Core	Cable
6.35/11kV											
35	6.9	3.4	14.9	1.8	18.8	7/4.75	14.3	52.0	1320	280	520
50	8.1	3.4	16.0	1.8	20.0	7/4.75	14.3	54.2	1490	300	540
70	9.6	3.4	17.6	1.8	21.6	7/4.75	14.3	57.4	1740	320	570
95	11.4	3.4	19.3	1.8	23.3	7/4.75	14.3	60.9	2050	350	610
120	12.8	3.4	20.7	1.8	24.7	19/3.50	17.5	66.9	2480	370	670
150	14.2	3.4	22.1	1.8	26.1	19/3.50	17.5	69.7	2780	390	700
185	15.7	3.4	23.6	1.8	27.6	19/3.50	17.5	72.7	3120	410	730
12.7/22kV											
35	6.9	5.5	19.2	1.8	23.1	7/4.75	14.3	60.6	1730	350	610
50	8.1	5.5	20.3	1.8	24.3	7/4.75	14.3	62.9	1910	360	630
70	9.6	5.5	21.9	1.8	25.9	7/4.75	14.3	66.1	2200	390	660
95	11.4	5.5	23.6	1.8	27.6	7/4.75	14.3	69.5	2530	410	690
120	12.8	5.5	25.0	1.8	29.0	19/3.50	17.5	75.5	3000	430	750
150	14.2	5.5	26.4	1.8	30.4	19/3.50	17.5	78.3	3320	460	780
185	15.7	5.5	27.9	1.8	31.9	19/3.50	17.5	81.3	3690	480	810


Stranding & Nominal Wire X (No./mm)	Nominal Overall Diameter (mm)	Cross-sectional Area (mm ²)	Minimum Breaking Load (kN)	Rec. Tension	
				Highest Everyday (kN)	Max. Working (kN)
7/4.75	14.3	124.0	27.1	4.1	13.6
19/3.50	17.5	182.8	41.7	6.3	20.9



HV XLPE INSULATED METALLIC**SCREENED ABC 6.35/11KV XLPE INSULATED COPPER WIRE SCREENED HDPE SHEATHED AERIAL BUNDLED CABLES TO AS/NZS 3599.1. ALUMINIUM CONDUCTORS, GALVANISED STEEL CATENARY.**

Nominal Conductor Area (mm2)	Nominal Conductor Diameter (mm)	Average Insulation Thickness (mm)	Nominal Diametre Over Insulation (mm)	Average Insulation Screen Thickness (mm)	Copper Wire Screen Stranding (No./mm)	Nominal Diametre Over Screen (mm)	Average Sheath Thickness (mm)	Nominal Diametre Over Sheath (mm)	Galvanised Steel Catenary Stranding (No.mm)	Nominal Overall Diametre (mm)	Approx. Mass (kg/km)	Minimum Bending Radius - Installed (mm)	
												Core	Cable
Light duty screen													
35	6.9	3.4	14.9	0.8	24/0.85	19.2	1.8	23.5	7/2.00	53.1	1760	350	530
35	6.9	3.4	14.9	0.8	24/0.85	19.2	1.8	23.5	19/2.00	57.1	2060	350	570
50	8.1	3.4	16.0	0.8	24/0.85	20.4	1.8	24.7	19/2.00	59.3	2230	370	590
70	9.6	3.4	17.6	0.8	24/0.85	22.0	1.8	26.3	19/2.00	62.5	2500	390	630
95	11.4	3.4	19.3	0.8	24/0.85	23.7	1.8	28.0	19/2.00	66.0	2820	420	660
120	12.8	3.4	20.7	0.8	24/0.85	25.1	1.8	29.4	19/2.00	68.8	3100	440	690
150	14.2	3.4	22.1	0.8	24/0.85	26.5	1.9	31.0	19/2.00	72.0	3440	460	720
185	15.7	3.4	23.6	0.8	24/0.85	28.0	1.9	32.5	19/2.00	75.0	3800	490	750
Heavy duty screen													
35	6.9	3.4	14.9	0.8	40/0.85	19.2	1.8	23.5	7/2.00	53.1	2020	350	530
35	6.9	3.4	14.9	0.8	40/0.85	19.2	1.8	23.5	19/2.00	57.1	2310	350	570
50	8.1	3.4	16.0	0.8	23/1.35	21.4	1.8	25.7	19/2.00	61.3	2790	390	610
70	9.6	3.4	17.6	0.8	32/1.35	23.0	1.8	27.3	19/2.00	64.5	3420	410	650
95	11.4	3.4	19.3	0.8	38/1.35	24.7	1.8	29.0	19/2.00	68.0	3980	430	680
120	12.8	3.4	20.7	0.8	38/1.35	26.1	1.8	30.4	19/2.00	70.8	4270	460	710
150	14.2	3.4	22.1	0.8	38/1.35	27.5	1.9	32.0	19/2.00	74.0	4600	480	740
185	15.7	3.4	23.6	0.8	38/1.35	29.0	1.9	33.5	19/2.00	77.0	4960	500	770

Stranding & Nominal Wire X (No./mm)	Nominal Overall Diametre (mm)	Cross-sectional Area (mm2)	Minimum Breaking Load (kN)	Rec. Tension	
				Highest Everyday (kN)	Max. Working (kN)
7/2.00	6.0	22.0	26.0	6.5	13.0
19/2.00	10.0	59.7	70.5	17.6	35.3

**HV XLPE INSULATED METALLIC****SCREENED ABC 12.7/22KV XLPE INSULATED COPPER WIRE SCREENED HDPE SHEATHED AERIAL BUNDLED CABLES TO AS/NZS 3599.1. ALUMINIUM CONDUCTORS, GALVANISED STEEL CATENARY.**

Nominal Cond. Area (mm2)	Nominal Conductor Diameter (mm)	Average Insulation Thickness (mm)	Nominal Diameter Over Insulation (mm)	Average Insulation Screen Thickness (mm)	Copper Wire Screen Stranding (No./mm)	Nominal Diameter Over Screen (mm)	Average Sheath Thickness (mm)	Nominal Diameter Over Sheath (mm)	Galvanised Steel Catenary Stranding		Nominal Overall Diameter (mm)	Approx. Mass (kg/ km)	Minimum Bending Radius - Installed (mm)	
									Size (No. mm)	Diameter (mm)			Core	Cable
Light duty screen														
35	6.9	5.5	19.2	0.8	24/0.85	23.5	1.8	27.8	7/2.00	6	61.7	2210	420	620
35	6.9	5.5	19.2	0.8	24/0.85	23.5	1.8	27.8	19/2.00	10	65.7	2500	420	660
50	8.1	5.5	20.3	0.8	24/0.85	24.7	1.8	29.0	19/2.00	10	68.0	2690	430	680
70	9.6	5.5	21.9	0.8	24/0.85	26.3	1.9	30.8	19/2.00	10	71.6	3020	460	720
95	11.4	5.5	23.6	0.8	24/0.85	28.0	1.9	32.5	19/2.00	10	75.0	3370	490	750
120	12.8	5.5	25.0	0.8	24/0.85	29.4	2.0	34.1	19/2.00	10	78.2	3720	510	780
150	14.2	5.5	26.4	0.8	24/0.85	30.8	2.0	35.5	19/2.00	10	81.0	4060	530	810
185	15.7	5.5	27.9	0.8	24/0.85	32.3	2.1	37.2	19/2.00	10	84.4	4470	560	840
Heavy duty screen														
35	6.9	5.5	19.2	0.8	40/0.85	23.5	1.8	27.8	7/2.00	6	61.7	2460	420	620
35	6.9	5.5	19.2	0.8	40/0.85	23.5	1.8	27.8	19/2.00	10	65.7	2760	420	660
50	8.1	5.5	20.3	0.8	23/1.35	25.7	1.8	30.0	19/2.00	10	70.0	3250	450	700
70	9.6	5.5	21.9	0.8	32/1.35	27.3	1.9	31.8	19/2.00	10	73.6	3940	480	740
95	11.4	5.5	23.6	0.8	38/1.35	29.0	1.9	33.5	19/2.00	10	77.0	4530	500	770
120	12.8	5.5	25.0	0.8	38/1.35	30.4	2.0	35.1	19/2.00	10	80.2	4880	530	800
150	14.2	5.5	26.4	0.8	38/1.35	31.8	2.0	36.5	19/2.00	10	83.0	5220	550	830
185	15.7	5.5	27.9	0.8	38/1.35	33.3	2.1	38.2	19/2.00	10	86.4	5640	570	860
Stranding & Nominal Wire X (No./mm)		Nominal Overall Diameter (mm)	Cross-sectional Area (mm2)	Minimum Breaking Load (kN)	Rec. Tension									
					Highest Everyday (kN)	Max. Working (kN)								
7/2.00		6.0	22.0	26.0	6.5	13.0								
19/2.00		10.0	59.7	70.5	17.6	35.3								

