

# RAIL

Electrical - Mining - Oil & Gas - Civil Infrastructure - Industrial - Communications - Transport



Track Maintenance



Signalling



Overhead



Bridge & Structure



Rolling Stock



## SPECIALISED FORCE

HYDRAULIC TOOLS & SPECIALISED EQUIPMENT FOR RAIL NETWORKS



- Established 1982
- Locations Australia Wide
- Australian Owned and Operated



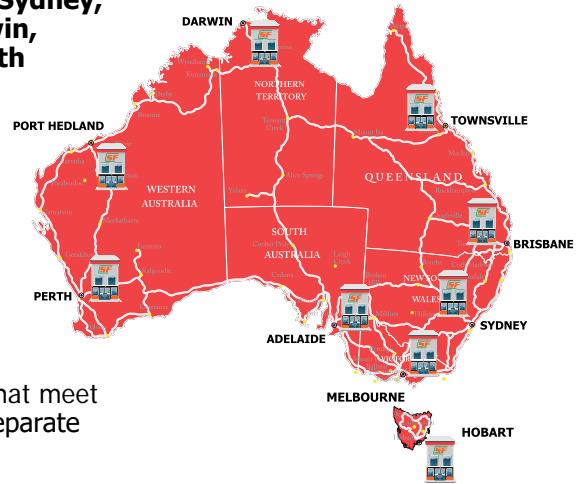
[specialisedforce.com.au](http://specialisedforce.com.au)



## OVERVIEW

Specialised Force Pty Ltd has been operating and expanding throughout Australia since 1982. With the Head office in Sydney, the company now operates in Brisbane, Townsville, Darwin, Adelaide, Melbourne, Perth, Port Hedland and Hobart, with additional support distribution network covering all areas throughout Australia & New Zealand for over 40 years.

Specialised Force success rests on unique knowledge of specialised hydraulic, electrical tooling equipment and other products. This includes synchronised lifting systems, torque equipment, heat exchanger, pipe maintenance equipment and overhead/underground power installation equipment. We pursue a “complete system” approach and carefully match components to ensure efficient and safe operation of equipment. In order to transform this knowledge into solutions that meet demands in different industries, the company is organised into separate business areas



## FOCUSED BUSINESS AREAS



- **ELECTRICAL** Overhead & Underground Power Installation Machinery & Equipment
- **RAIL** Maintenance, Construction and Safety Equipment
- **MINING** Jacking, Maintenance Tools & Tensioning Devices
- **OIL & GAS** Flange Maintenance, Alignment, Spreading & Torque Tools
- **CIVIL INFRASTRUCTURE** Bending, Crimping, Punching & Cutting Tools
- **INDUSTRIAL** Heavy Load Lifting/Shifting, Maintenance & Safety Equipment
- **COMMUNICATIONS** Drum Handling Equipment, Rollers & Winches
- **TRANSPORT** Jacks, Presses, Pullers, Repair Kits & Torque Tooling
- **DEFENCE** Heavy Load Lifting/Shifting

## OPERATIONAL COMMITMENTS

- **SAFETY FIRST**  
Specialised Force strives to provide a safe, healthy work environment that stimulates customers and employees to perform effectively, to assume responsibility and to continue to develop towards company goals. Specialised Forces vision is for zero work-related injuries.
- **ENVIRONMENTAL RESPONSIBILITY**  
Environmental consideration is a key element in our operations. We strive to prevent or minimize harmful effects on the environment.
- **DRIVEN BY CUSTOMER VALUE**  
Where businesses are evolving – that’s where you’ll find Specialised Force. Our range of products and solutions are used by customers worldwide and by most industries. Specialised Force offers improved efficiency, productivity and safety, which in turn boosts profitability for customers.

## OUR VISION

- **Customers** and partners will see us as integral to their success. We will anticipate their needs and deliver on every commitment we make.
- **People** will be proud to work at Specialised Force. We will create opportunities to achieve the extraordinary and we will reward success.
- **Communities** will regard us as responsible and responsive. We will integrate local perspectives, promote sound management of resources, and contribute to a better quality of life.

**OUR VALUES**



**EXCELLENCE**

We apply advanced technology and continually innovate and improve



**SAFETY**

Zero accidents is our unwavering goal.



**FAIR RETURN**

We earn a return that fairly rewards the value we deliver



**SUSTAINABILITY**

We plan and act for the future - considering our company, our customers and our world



**ETHICS**

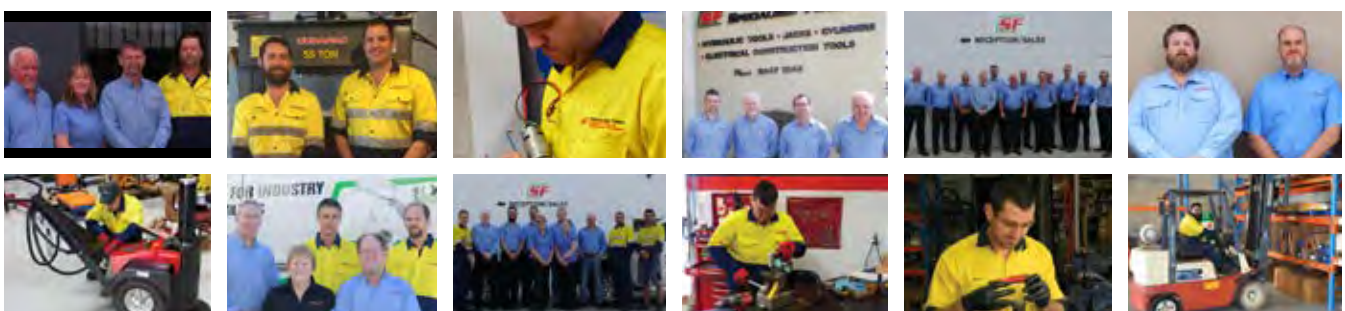
Uncompromising integrity, honest and fairness are at the heart of our company

**EXPERIENCE YOU CAN TRUST WITH NATIONAL COVERAGE AND LOCAL CARE**



A proven, competent, and widespread service network, supported by a national infrastructure, is vital to ensuring your equipment is up and running as quickly as possible. With Specialised Force, you have a reliable partner who not only supplies the equipment you need but also has in-depth application knowledge of your working environment and a national presence that delivers high-quality support, regardless of location. At Specialised Force, we stand behind the "SF" logo as a symbol of product quality and service.

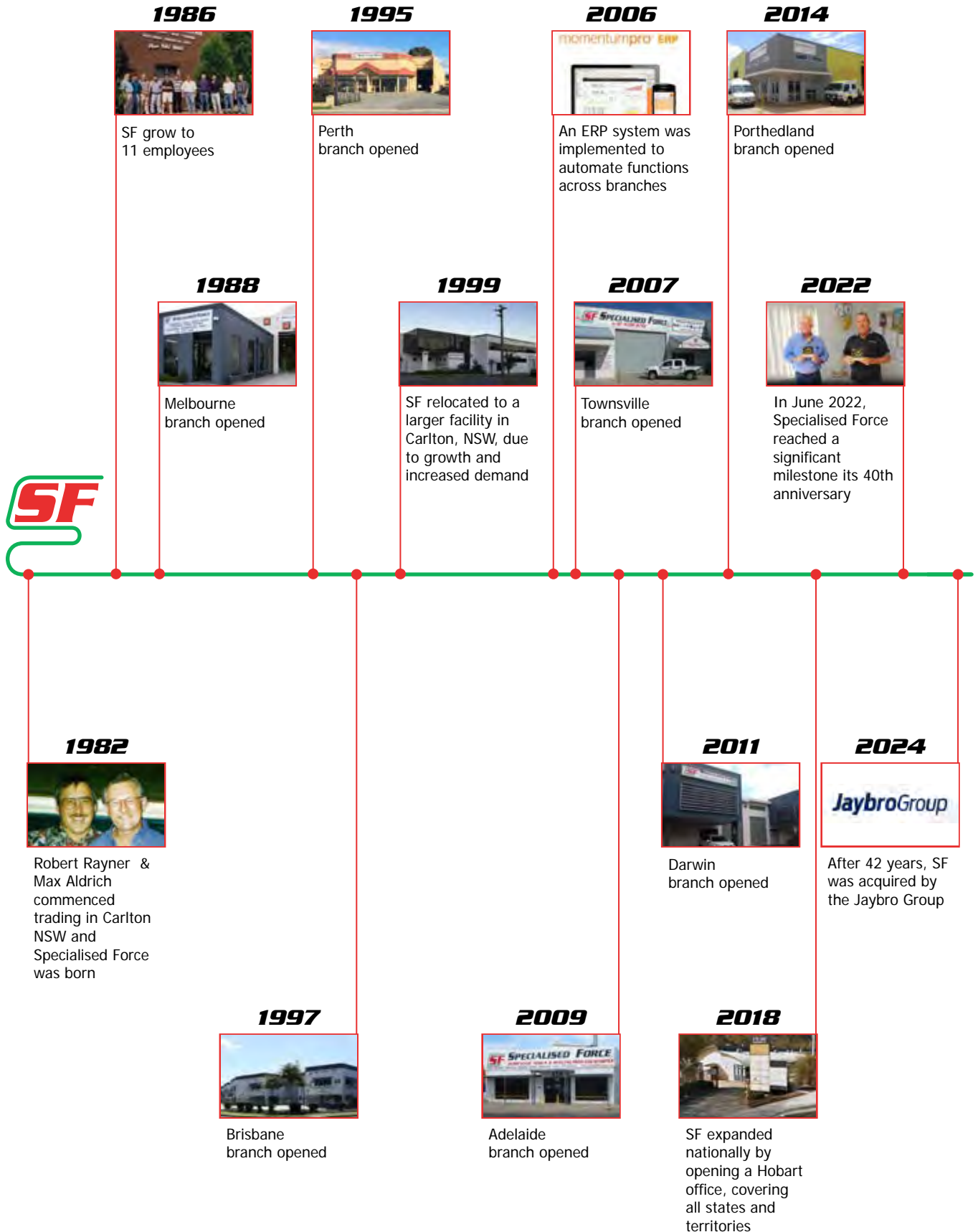
The real strength of Specialised Force's service is the combined knowledge and competence of the people who are in contact with customers on a day-to-day basis. Our teams provide service, parts and technical support on a national scale. The inherent multi-functionality of support teams enables solutions to be processed with the efficiency of a national organisation. Our aim is to exceed our customers' expectations. Our goal is to make Specialised Force customers more successful through long-term cooperation and partnership development.



**SPECIALISED FORCE 1982 - 2025**

**A Snapshot of SF Milestones**

Join us as we look back at a few key breakthroughs that helped shape the company.



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# **SF** **SPECIALISED FORCE**

**Quality Products, Service and Solutions for 700Bar Hydraulic, Electrical, Rail & Other Key Industries.**



**AIRTEC**



## **Drills, Saws & Impact Wrenches**



**[specialisedforce.com.au](http://specialisedforce.com.au)**



**DRILL, SAWS & IMPACT WRENCHES**

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**PETROL RAIL DRILL (MADE IN USA)**

**MODEL NO. RB2SPD (2-SPEED)**



**Two Speeds**  
Quick change  
speed selection



**Twister Bits**  
Available in sizes  
up to 1-11/16

The RailBoss from Trak-Star is the world's most powerful and reliable 4-stroke Gas Powered Rail Drill. The drill incorporates a two speed gear box for using either the Black or Carbide Twister Bits. The 150 RPM range is for the Black Twister Bits or the 350 RPM range is for the Carbide Twister Bits. By using the RB2SPD and the Carbide Twister Bits, you can achieve up to 2-1/2 times the tool life in both standard and extremely hard rail. The drill features a smaller overall footprint, quill feed arbor with thru-the-tool coolant, a one stroke ergonomic feed handle and a 10 point clamping system. A center balanced carrying handle and weighing in at only 22.2kg makes transporting the RailBoss a breeze. Made in the USA.

**FEATURES**

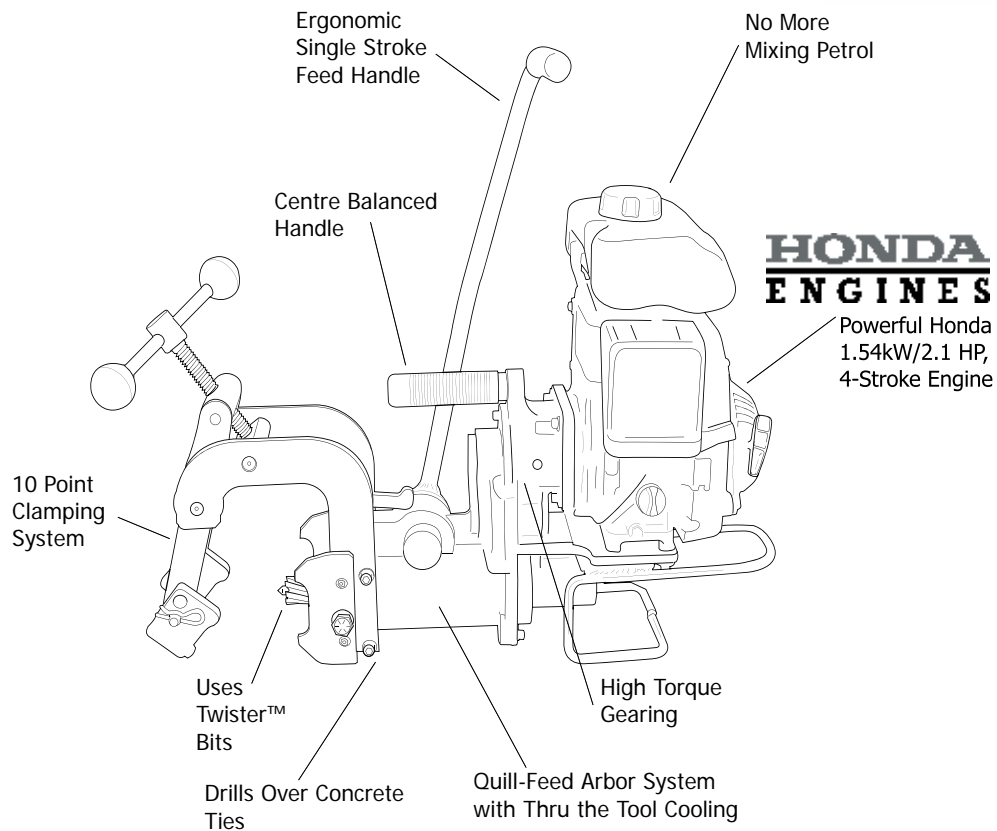
- Honda 1.54kW/2.1HP, 4-Stroke Engine with Oil Alert
- One Pull Ergonomic Feed Handle
- High Torque Gear Box
- 10 Point Clamping System
- Centre Balanced Handle
- Drill Holes in under 20 seconds
- Optional clamp for crane/girder rail
- Suitable for drilling bonding holes
- One Year Warranty
- RB2SPD uses Twister Bits™
- RB2SPD to be used with Carbide Twister Bits Only
- Accurate Quill-Feed Arbor System
- Positive Slug Ejection
- Thru-the-Tool Cooling
- Clearance for concrete sleepers

The **RailBoss RB2SPD** runs at a high speed of 350 RPM (second gear) and is suitable for the new range of **tungsten carbide cutters**. These new carbide cutters will handle harder rail and do 2 ½ times more holes than the high speed type (refer to Page 8 for more information).

**SPECIFICATIONS**

Model No.	Power Option	Description	Motor	RPM	Max. Hole Ø	Rail Capacity (kg)	Unit Wt (kg)
<b>RB2SPD</b>	Petrol	High Torque Quill Feed	Honda 1.54kW/2.1 HP, 4-Stroke	150/350 (2-Speed)	1-11/16" (42.8mm)	31 - 68kg	22.2

NOTE: The RB35 is specifically designed to be used with carbide cutters only.



**OPTIONS & ACCESSORIES (REFER PAGES 7-10)**



**Rail Shoes    Retrofit Kits    Bonding    Twister Bits    Coolant Bottle    Coolant & Lube    Storage Case**

Model No.	Description
<b>27559</b>	Clamp for Crane Rail (Must use 50mm (2") Depth of Cut Twister Bits)
<b>Q8047KIT</b>	Girder Rail Retrofit Kit
<b>Q8047B</b>	Girder Rail Shoe (RI57/R10)
<b>07495</b>	Holder for 50mm Depth of Cut Twister Bits
<b>03540</b>	Storage Case - Steel



**DRILLS, SAWS & IMPACT WRENCHES**

**specialisedforce.com.au**

**HYDRAULIC RAIL DRILL (MADE IN USA)**

**MODEL NO. RM42**

Put less work into your rail drilling with the Power Feed **RailMaster™** Hydraulic Rail Drill. It can drill up to a 43mm holes using the easy to install **Twister Bits™** in standard rail in 28 seconds and less than 35 seconds in fully heat treated rail. The drill operates at 19 LPM / 138 Bar with a 3kW/4HP motor, while weighing just 21.8kg. The **RailMaster™** provides high clamping forces, and is easy to carry and operate by one person. A simple forward/reverse lever turns the quill feed arbor on or off. Plus it has place holders for extra **Twister Bits™**. Clamps are available for drilling crane or girder rail.

**FEATURES**

- Hydraulic Power Feed Motor with Forward & Reverse
- Weighs only 21.8kg
- Uses Twister Bits™
- Accurate Quill-Feed Arbor System
- Positive Slug Ejection
- RPM 150
- Thru-the-Tool Cooling
- 10 Point Clamping System
- Suitable for drilling bonding holes
- Quick Change Rail Shoes
- Centre Balanced Handle
- 2 Place Holders for extra Twister Bits™

**SPECIFICATIONS**

Model No.	Power Option	Description	Motor	RPM	Max. Hole Ø	Rail Capacity (kg)	Unit Wt (kg)
<b>RM42</b>	Hydraulic	High Torque Quill Feed	3kW/4HP, 138Bar @ 19LPM	150	43	32-68	21.8

**OPTIONS & ACCESSORIES (REFER PAGES 7-10)**



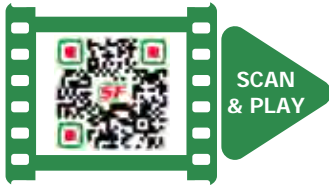
Model No.	Description
<b>27559</b>	Clamp for Crane Rail (Must use 50mm (2") Depth of Cut Twister Bits)
<b>Q8047KIT</b>	Girder Rail Retrofit Kit
<b>Q8047B</b>	Girder Rail Shoe (RI57/R10)
<b>07495</b>	Holder for 50mm Depth of Cut Twister Bits
<b>03540</b>	Storage Case - Steel



- Drill Holes in less than 28 sec.
- Optional clamp for crane/ girder rail
- One Year Warranty
- Clearance for concrete sleepers



**RAIL DRILL ACCESSORIES (MADE IN USA)**



Rail Shoes suit RB28, RM42 & BD17 Machines.



Rail Shoes		Hole Location Template		Storage Case	
Model No.	Rail Section (kg)	Model No.	Description (Size)	Model No.	Description / Dimensions
<b>04429</b>	41	<b>04450</b>	62 x 127 x 127mm (Use on 41, 47 & 53kg Rail)	<b>03540</b>	Weather proof steel storage case, includes lift out tray, handles and lockable. Measures (DxWxH) 292 x 812 x 527 (mm)
<b>04430</b>	47				
<b>04431</b>	50				
<b>04432</b>	53				
<b>04433</b>	60	<b>04451</b>	88 x 130 x 130mm (Use on 50 & 60kg Rail)		
<b>04434</b>	68	<b>40570</b>	Custom Size (Specify when ordering)		
Sold as pair only					



Coolant Bottle*		Coolant & Lube Slick Stick**		
Model No.	Description	Model No.	Qty x Size (Litre)	Description
<b>01592</b>	Pressurised Coolant Bottle with Hose Assembly	<b>11742-1</b>	1 x 3.8 Litres (1 makes 42 Litres)	RotaMagic concentrated coolant is environmentally safe as well as bio-degradable. It provides superior lubrication for extended tool life and cooler cuts Slick Stick is a soft easy to apply lubricant
<b>05684</b>	3 Piece Quick Connect/Nipple Kit	<b>11742-4</b>	4 x 3.8 Litres (4 makes 168 Litres)	
<b>40538</b>	Quick Connect Nipple	<b>11743</b>	1 x 18.9 Litre (makes 208 Litres Total)	
<b>01569</b>	On/Off Valve	<b>11746</b>	1 x 48 Gram	
<b>01975</b>	Hose Assembly Only			
<b>01570</b>	Quick Connect Fitting (9.5mm ID)			

\*Note coolant bottle supplied with all Trak-Star rail drills

\*\* MSDS available upon request

**TWISTER BITS (MADE IN USA)**

**Trak-Star Twister Bits™** are the standard tooling for drilling all types of rail. They are available in two different styles: Black coated M42 HSS (High Speed Steel) and Carbide Tipped. Twister Black Bits can be resharpened and feature a Titanium Aluminium Nitride coating for extended tool life when cutting rail (up to 400 BHN). Carbide Twister Bits feature brazed in carbide tips and offer up to 2-1/2 times the tool life in both standard and extremely hard rail when used with the **Trak-Star Model RB2SPD Petrol Rail Drill**.

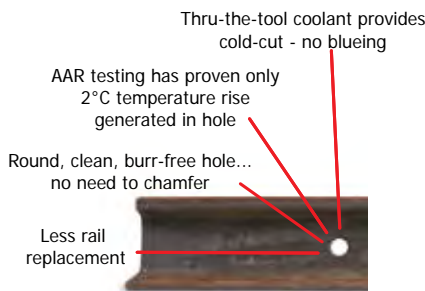
The unique annular (hollow) design and thicker cutter wall offers extended tool life and extra durability.

Twister Bits feature the quarter-turn style mounting for quick and easy installation with no tools required. When used with a **Trak-Star Rail Drill**, installation is simple; insert the bit into the arbour and give it a turn.

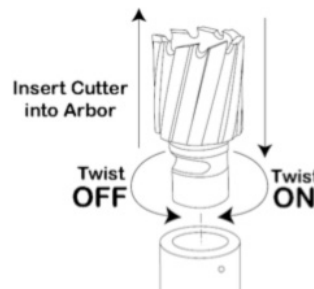
Twister Bits can also be used with similar rail drilling systems with a 19.05mm (3/4") arbour bore. The shank of the bit features a flat that easily adapts to the set-screw style mounting, offering a secure installation, and allowing Trak-Star cutting technology to be used in multiple systems.



**TWISTER BIT HOLE**



**REPLACING OR INSERTING TWISTER BITS**



**SPECIFICATIONS\***

IMPERIAL STANDARD CUTTERS WITH TWISTER SHANK (22mm / 7/8" DEPTH OF CUT) "FASTER CUTTING TIME"			
Pilot Model No. 03635 for sizes 3/4 to 1-11/16"			
Ø (")	Metric Equivalent (mm)	Model No.	Carbide Tip Model No.
3/4	19.0	15324	18-15224
7/8	22.2	15328	18-15228
15/16	23.8	15330	18-15230
1	25.4	15332	18-15232
1-1/16	27.0	15334	18-15234
1-1/8	28.5	15336	18-15236
1-3/16	30.1	15338	18-15238
1-1/4	31.7	15340	18-15240
1-5/16	33.3	15342	18-15242
1-3/8	34.9	15344	18-15244
1-7/16	36.5	15346	18-15246
1-1/2	38.1	15348	18-15248
1-5/8	41.2	15352	18-15252
1-11/16	42.8	15354	18-15254

**TWISTER BITS & CUTTING TOOLS (MADE IN USA)**



**TWISTER BITS FOR CRANE/GIRDER RAIL**



These special Twister Bits™ have a 50mm (2") depth of cut and are specifically design for Crane & Girder Rail applications. "TiN" coated (Titanium Aluminium Nitride) for extended tool life and Twister Bit™ shank.

\* Twister bits can only be sharpened by specialists, contact your nearest SF branch for more details.

**SPECIFICATIONS\***

Diameter (")	Metric Equivalent (mm)	Model No.
Use Pilot Model No. 07496		
3/4	19.04	15624
7/8	22.22	15628
15/16	23.81	15630
1	25.40	15632
1-1/16	26.98	15634
1-1/8	28.57	15636
1-3/16	30.16	15638
1-1/4	31.74	15640
1-5/16	33.33	15642
1-3/8	34.92	15644
1-7/16	36.51	15646
1-1/2	38.10	15648

**BONDING BITS ADAPTORS & RETROFIT KITS**



Trak-Star Bonding Bits are for use in all Trak-Star rail drills. Adapters are fitted with the Twister™ style shanks for quick installation and removal.

**SPECIFICATIONS**

Model No	Description	Size	
		(mm)	(")
<b>05570-9/32</b>	Bonding Retrofit Kit	7.1	9/32
<b>07307</b>	Bonding Drill Bit	7.1	9/32
<b>07305</b>	Bonding Drill Bit & Adaptor	7.1	9/32
<b>07304</b>	Bonding Drill Bit	8.0	-
<b>07302</b>	Bonding Drill Bit & Adaptor	8.0	-
<b>05570-3/8</b>	Bonding Retrofit Kit	9.5	3/8
<b>03452</b>	Bonding Drill Bit	9.5	3/8
<b>05565</b>	Bonding Drill Bit & Adaptor	9.5	3/8
<b>07318</b>	Bonding Drill Bit	10.3	13/32
<b>07316</b>	Bonding Drill Bit & Adaptor	10.3	13/32

Model No.	Description
<b>05570-9/32</b>	Bonding Bit Retrofit Kit to suit <b>RB28</b> & <b>RM42</b> Rail Drills. Kit includes: <b>07305</b> Bonding Bit 9/32" & Adaptor, <b>27049</b> Gear, <b>05568</b> Pin for Gear, <b>05196</b> Teflon Washer and <b>05569</b> Instruction Sheet
<b>05570-3/8</b>	Bonding Bit Retrofit Kit to suit <b>RB28</b> & <b>RM42</b> Rail Drills. Kit includes: <b>05565</b> Bonding Bit 3/8" & Adaptor, <b>27049</b> Gear, <b>05568</b> Pin for Gear, <b>05196</b> Teflon Washer and <b>05569</b> Instruction Sheet



**#07305 (9/32" - 7.1mm)**  
**#05565 (3/8" - 9.5mm)**



**#05196**



**#05568**



**#27049**

**GIRDER RAIL CLAMP RETROFIT KIT (MADE IN USA)**



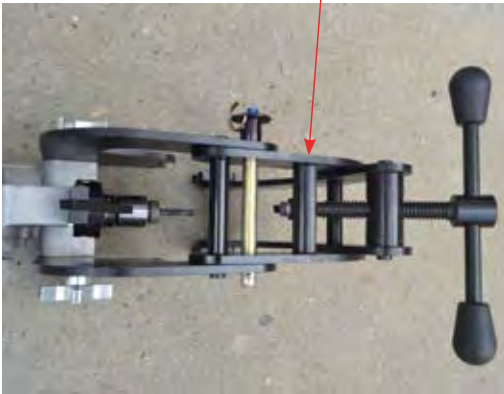
Model No.	Description
<b>Q8047KIT</b>	Girder Rail Retrofit Kit for RB28 & RM42 Rail Drills



**Q8047KIT** Girder Kit



**Model No. Q8047KIT**



**TRANSDUCER ATTACHMENT (MADE IN USA)**

Model No.	Description
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**07556**

The Transducer drill option allows the operator to locate the hole off the top of the rail. Hole height adjustment is 25mm (1"). To be used with 31kg rail. Suits models RB2SPD & RM42.



**PETROL TIMBER SLEEPER DRILL**

**MODEL NO. PRO-TED260RS**

The TAS/TANAKA two-stroke engine drill with reverse gear is a powerful and portable tool designed for all types of timber work. Equipped with a 26cc engine, it delivers high performance and efficiency. Its gear reduction ratio enhances torque, making it suitable for various applications and compatible with multiple attachments. This drill features a heavy-duty keyless chuck, capable of holding up to a 13mm drill shank, allowing for quick and easy bit changes. The reverse gear function provides maximum operator convenience and versatility, making it simple to switch directions as needed. Designed with ergonomic handles, including a reversible front handle for both left- and right-handed users, it ensures a comfortable grip for extended operation. Additionally, the anti-vibration system minimizes operator fatigue by reducing vibrations, enhancing overall comfort and control.

**FEATURES**

- Keyless Chuck
- Reverse Gear
- Ergonomic Handles
- Anti-Vibration

**SPECIFICATIONS**

Model No.	<b>PRO-TED260RS</b>
Supplied as Standard	Petrol Drill with 13mm Keyless Chuck
Warranty	2-Year Limited Warranty
Power	26cc
Output	0.7 kW
Dry Weight	5.2kg
Fuel Capacity	0.6L
Fuel Consumption at Max. Engine Power	0.67 L/h
Chuck Size	13mm
Max Bit Size (Wood)	25mm
Emission Compliance	Complies with Australian Emission Laws
Gear Reduction Ratio	10.6:1
Forward Gear Ratio	19.58:1
Reverse Gear Ratio	20.38:1
Throttle Setting Device	Yes
Reversible Function	Yes
Cylinder	Chrome Plated for Longer Life
Connection Rod	Forged Steel
Petrol/Oil Ratio	25:01:00
Carburetor	Walbro - Diaphragm Type
Noise Level	79DB

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>EDR2400-EXT</b>	Male & Female threaded Extension Shaft 360mm
<b>0593212091</b>	13mm Capacity Keyed Chuck



Japanese Quality



**PRO-TED260RS**  
Shown with Extension  
**EDR2400-EXT**

**DRILLS, SAWS & IMPACT WRENCHES**

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**PETROL RAIL SAW (MADE IN SWEDEN)**

**MODEL NO. K1270**



The Husqvarna K1270 rail saw was developed for maintenance work on railways, tram tracks and metro systems. An impressive output of 5.8 kW (7.8hp) makes it one of the market's most powerful

rail cutters. It is easily the market's lightest petrol powered rail cutting unit. The attachment mounts quickly and firmly to the rail. Double attachment mountings enable cutting from both sides. The new Husqvarna K1270 comes with the patented X-Torq® engine that provides a lot of power as well as contributing to lower emissions and low fuel consumption. This without losing its superior power among petrol driven power cutters makes for an unbeatable combination. Besides the X-Torq® engine, that contributes to lower emissions while keeping the exceptional power, K1270 also comes with a new magnesium blade guard. The magnesium contributes to a light weight, which gives an improved power-to-weight ratio.

**FEATURES**

- Superior power but low emissions - Thanks to the X-Torq® engine. Meets all national emission legislations worldwide
- Improved ergonomics - Stepless adjustment of the magnesium blade guard makes it easy to change cutting position. New ergonomic design on filter also contributes to improved ergonomics.
- Increased power-to-weight ratio - Lighter overall machine weight reduced user fatigue.
- Lower fuel consumption - X-Torq engines lower fuel consumption will reduce costs of operation.
- One of the market's most powerful rail cutters
- Double attachment mountings allow cutting from both directions
- Fast, stable mounting of the attachment onto the rail
- Precise right-angle cuts on all levels
- The K1270 is equipped with the RA10 (Model No. 5062266-11) attachment, which fastens to the rail to ensure a perfect right-angle cut

**SPECIFICATIONS**

Model No.	Power Option	Cylinder Displacement (cm <sup>3</sup> )	Power Output	Power/Weight Ratio	Blade Size	Max Cutting Depth (mm)	Dimensions (mm)	Wt (no fuel or arm) (kg)
<b>K1270/16</b>	Air-Cooled 2 Stroke Petrol Engine	119	5.8kW 7.8hp	0.37	400mm / 16"	145	730x243x430 (LxHxW)	15.7
Model No.	Fuel Tank Volume (L)	Idling Speed (RPM)	RPM	Vibrations Front Handle (m/s <sup>2</sup> )	Vibrations Rear Handle (m/s <sup>2</sup> )	Sound Pressure Level at Operators Ear (dB(A))	Sound Power Level – Guaranteed LWA (dB(A))	
<b>K1270/16</b>	3,4	2,700	4,700	5.3	5.4	104	117	

NOTE: Supplied in Wooden Storage Case with Tool Kit

**PETROL RAIL SAW OPTIONS & ACCESSORIES**



**RA10 & RA10S**

**04419 & 04415**

**505698001**

**5444502-02**

Model No.	Item	Part No.	Wt (kg)	Specifications	Description
<b>506226611</b>	Rail Attachment	<b>RA10</b>	5.5	Suits Rail >68kg (Standard)	The Husqvarna RA10 and RA10S attachments for the cutter K1270 Rail have zero-play needle and ball bearings. Fits quickly to the rail and provides right-angle cuts on all levels. A folding guide marks the exact position of the cut (RA10 supplied standard with K1270 purchase, RA10S is an optional extra)
<b>506226612</b>	Rail Attachment	<b>RA10S</b>	5.8	Suits Tram Rail	
<b>04419</b>	Cut-Off Disc	-	1.4	Ø 350mm (14") Suits K1270/14	Trak-Star cut-off discs are designed for the demanding process of cutting all types of railway line. Double sided fibre reinforced ensures a straight cut every time. Wears evenly & consistently, making it less vulnerable to glazing when cutting through head-hardened rail sections. Specifications; - 25.4mm (1") centre hole - 3.2mm thick, 5,400RPM Maximum (Standard pack size is 10 discs)
<b>04415</b>	Cut-Off Disc	-	1.4	Ø 406mm (16") Suits K1270/16 & HS16	
<b>505698001</b>	Petrol Container	-	0.9	6L Capacity	Husqvarna Petrol Container with overfill protection. When the tank is full the flow is automatically shut off and you can lift the container up without spilling. Features date stamp on the bottle.
<b>5444502-02</b>	Oil	-	1.1	2-Stroke (1.0L)	Husqvarna 2-stroke oil comes in a 1.0L bottle
<b>K1270-16SKIT</b>	Service Kit	-	1.3	-	Husqvarna Kit Contains: Air Filter, Belt, Fuel Filter, Spark Plug & Starting Cord Refer below for more details

**MODEL NO. K1270/16SKIT (589-40-47-07)**



**Service Kit Contents**

Ref	Product Description	Model Number	Qty
A	Air Filter	<b>510 24 41 03</b>	1
B	Belt	<b>544 97 63 01</b>	1
C	Fuel Filter	<b>506 26 41 11</b>	1
D	Spark Plug	<b>503 23 51 09</b>	1
E	Starting Cord	<b>506 33 56 15</b>	1

Generic Model Shown

DRILLS, SAWS & IMPACT WRENCHES

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**ZERO EMISSIONS BATTERY POWERED RAIL SAW (MADE IN SWEDEN)**

**MODEL NO. K 1**

Cutting a rail track requires power, precision and speed. The K 1 PACE Rail delivers all this and more with the freedom of battery power by combining efficiency and a powerful motor with new advances RAIL CUTTRES in technology. The X-Halt™ brake function gives you greater operational safety and the excellent power-to-weight ratio provides optimal balance. The K 1 PACE RAIL is specially designed for work on railways, tram tracks and metro systems. It cuts fast and straight, the attachment mounts quickly to the rail and the double attachment mountings allow you to cut from any direction.



**FEATURES**

CUTTING FROM BOTH SIDES	PERFECT RIGHT-ANGLED CUTS	ZERO CO2 EMISSIONS DURING USE	SAFE OPERATION
The RA 11 attachment is included as standard and allows cutting from both sides of the track.	The RA 11 attachment fastens to the track to ensure a perfect right-angled cut.	Enjoy the freedom of working with an electric machine.	The X-Halt™ blade brake function is capable of stopping the rotation of the blade in fractions of a second.



**SPECIFICATIONS**

Model No.	WEIGHT	CUTTING DEPTH	DIMENSIONS	BATTERY SYSTEM	BATTERY OPTIONS	NOISE
<b>K1 PACE RAIL (BB)</b>	9,7 kg	<b>133 mm</b>	648 x 420 mm	94 V PACE	B380X, B750X	102 dB(A)

NOTE: To order complete kits, including the K1 PACE Rail, 1 x C1800X Charger (230VAC), 2 x B750X Batteries, and 1 x Transport Box, add the suffix "(BB)" to the "Kit Model No." shown in the tables above.

**ACCESSORIES**

B750X LI-ION BATTERY 94V 8Ah (970494201)	C1800X CHARGER 1800W (970495105)	Elite-Cut Abrasive Blade 356mm (529750701)	Vari-Cut Abrasive Blade 356mm (504000803)	PACE Battery Transport Box (531215402)
B750X PACE is a high power battery with a capacity of 750 Wh. Fast charging with a C1800X PACE charger with active cooling of the battery. Equipped with built-in connectivity so you can easily monitor state of charge, runtime, location and receive wireless updates through FOTA (firmware over the air).	C1800X PACE is a high power battery charger with a capacity of 1800 W suitable for B750X (45mins) PACE batteries. Equipped with a fast charging mode and active cooling enables fast charging of batteries.	Highest grade abrasive disc, developed specifically for use with rail cutting. For high demanding professionals working intensely on specialist applications, looking for best performance in terms of maximum cutting speed and life/wear resistance.	Top-grade abrasive discs, developed specifically for use with handheld power cutters. A good choice for use on steel and other metals	Husqvarna PACE Battery Box is a wooden box suitable for transportation. The tailored insert fits two 94V PACE batteries and a charger. It is UN 3480 certified for transportation of lithium-ion batteries.







**PETROL RAIL BAND SAW (MADE IN ITALY)**

**MODEL NO. SRL35P**

This unit is designed to cut with high precision the most common rail profiles.

Powered with a petrol engine keyed to a reducer which transmits the motion to the blade. The blade is constructed of high quality steel during operation is cooled with liquid coolant. The machine is clamped to the top of the rail.

The rapid anchorage system to the rail allows the operator to execute perfect parallel cuts without effort. Cutting is fully automatic by way of a pneumatic system that gradually lowers the blade, applying the right amount of force necessary for cutting. This feature minimises wear of the blade and the excess consumption of petrol.

Extra features include blade guard and emergency engine stop button the engine to ensure maximum operator safety.

Approximate cutting time 60kg rail is 2 minutes and 20 seconds.



**NOTE: Blades available for head hardened rail upon request. Rail shoes sold separately. Please confirm rail profile(s) when ordering.**



**FEATURES**

- Coolant bottle included
- Effortless automatic pneumatic cutting & lowering system
- Non-sparking operation
- Emergency stop
- Blade guard

**SPECIFICATIONS**

Model No.	Power	Engine	Power Output (kW)	Max Cutting Depth (mm)	Dimensions (mm)	Dry Wt (kg)
<b>SRL35P</b>	Petrol	Honda GX35 4-Stroke	1.1	180	1,150 x 450 x 480	42

**MODEL NO. SRL35E ELECTRIC RAIL BAND SAW (MADE IN ITALY)**

**NOTE: Blades available for head hardened rail upon request. Rail shoes sold separately. Please confirm rail profile(s) when ordering.**

Model No.	<b>SRL35E</b>
Power	Electric 230VAC/50Hz
Power Engine (kW)	2.0
Cutting Depth Max. (mm)	180
Dimensions (mm)	1300 x 500 x 500
Dry Weight (kg)	42



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**PETROL IMPACT WRENCH (MADE IN EUROPE)**

**MODEL NO. MASTER35**



- LOWER WEIGHT
- INCREASED POWER
- LOW EXHAUST EMISSION LEVELS



The Airtec MASTER35 is a high quality 2 stroke petrol engine powered 1" square drive impact wrench, primarily used for railway line construction and maintenance. It is lightweight, easily carried by one person, operator friendly ergonomic design, comfortable to use, has good balance and because it is so fast, reduces the potential harm of vibration exposure. Used for replacing and fitting screw spikes and fishplate nuts; drilling holes in wooden sleepers (converts to Wooden Sleeper Drilling machine with optional Quick Release Safety Auger Attachment). The MASTER35 is fitted standard with anti-vibration bushes and roll bar to reduce fatigue and injuries to the operator.

**FEATURES**

- Fast & powerful (Loosen/Tighten in under 7 seconds)
- Lightweight
- Low level vibration exposure
- Ergonomic design – well balanced
- Range of railway quality accessories available
- Roll bar to reduce vibration, protect throttle and provides foot rest for starting
- Low fuel consumption and emission
- Reliable and low maintenance
- Converts to Wooden Sleeper/Tie Drill with attachment

**SPECIFICATIONS**

Model No.	Power	Engine (cc)	Square Drive (mm)	Bolt Capacity (mm)	Torque Range (Nm)	Dimensions (mm)	Unit Wt (kg)
<b>MASTER35</b>	Petrol 2-Stroke	Emak 63.4	24.5 (1")	16-32	500-2500 (5 adjustable settings)	600 x 284 x 452 LxHxW	17.9

**ACCESSORIES**

**MODEL NO. MASTER35BOX**

Model No.	Description
<b>MASTER35BOX</b>	Carry Case – Steel



**ENGINE TECHNICAL INFORMATION**

- Two stroke/cycle Special
- Airtec EMAK 63.4 c.c.
- Maximum free speed 12,000 R.P.M.
- Power 3.5KW
- Fuel tank capacity 0.7 litres
- Running time on full tank of fuel 60 Minutes

**Fuel Mixture Ratios**

Petrol Unleaded minimum 90 Octane and two-stroke

Mix Oil	Ratio	Millilitres Per Litre
Mineral	25:1	40
Synthetic	50:1	20

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**IMPACT WRENCH (MADE IN EUROPE)**



Qty	Model No.	Description
1	<b>550E</b>	Wood Auger Attachment European 9mm Hex
2	<b>19DP</b>	19mm Hardwood Auger Bits Premium Quality 9mm Hex
1	<b>452</b>	41mm A/F Hex x 1" Square Drive Impact Socket
1	<b>449</b>	42mm A/F Hex x 1" Square Drive Impact Socket
1	<b>470</b>	42mm A/F Hex x 1" Square Drive Deep Impact Socket
1	<b>495</b>	32mm A/F Hex x 1" Square Drive Deep Impact Socket
1	<b>450</b>	36mm A/F Hex x 1" Square Drive Impact Socket
1	<b>451</b>	38mm A/F Hex x 1" Square Drive Impact Socket
1	<b>462</b>	24mm Square x 1" Square Drive Impact Socket
1	<b>454</b>	28mm x 21mm Rectangular x 1" Square Drive Impact Socket
2	<b>MS50</b>	50mm Retaining Clip
2	<b>MS60</b>	60mm Retaining Clip
2	<b>MS70</b>	70mm Retaining Clip
1	<b>407</b>	200mm x 1" Square Drive Extension
1	<b>409</b>	305mm x 1" Square Drive Extension



**UNIVERSAL JOINT 1" SQ. DRIVE**

Model No.	Description
406	Universal Joint



**QUICK RELEASE CHUCKS**

Model No.	Hex Open	Square Drive (*)	OAL (mm)	Body Diameter (mm)	Sleeve Diameter (mm)	Opening Depth (mm)
<b>2403</b>	7/16"	1/2	54	28	31	38
<b>550E</b>	9mm	1	90	55	37	55
<b>550A</b>	7/16"	1	90	55	37	55

For More Accessories - Refer Next Page



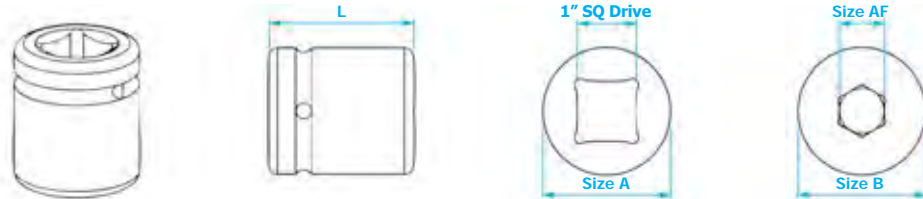
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**IMPACT WRENCH (MADE IN EUROPE)**

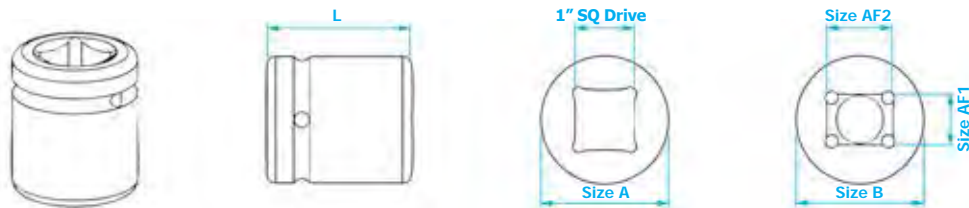
**IMPACT SOCKETS 1" SQUARE DRIVE**

Part No.	Description	Size A Ø	Size B Ø	Size AF	Size AF 1	Size AF 2	Length
537	19mm Hexagon	54mm	54mm	19mm	-	-	100mm
478	20mm Square, Tapered	54mm	54mm	20mm	-	-	62mm
463	21mm Square, Tapered	54mm	54mm	21mm	-	-	62mm
453	22mm Square	54mm	54mm	22mm	-	-	62mm
455	23mm Square, Tapered	54mm	54mm	23mm	-	-	62mm
462	24mm Square, Tapered	54mm	54mm	24mm	-	-	62mm
424	25.4mm Bi-Square, Tapered	54mm	54mm	25.4mm	-	-	62mm
562	28mm Square	54mm	58mm	28mm	-	-	62mm
496	30mm Hexagon, Tapered	54mm	54mm	30mm	-	-	100mm
712	30mm Square, Deep	54mm	54mm	30mm	-	-	150mm
447	32mm Hexagon	54mm	54mm	32mm	-	-	62mm
495	32mm Hexagon, Deep	54mm	54mm	32mm	-	-	100mm
498	34mm Hexagon	54mm	54mm	34mm	-	-	62mm
423	36mm Bi-Square	62mm	64mm	36.5mm	-	-	70mm
450	36mm Hexagon	54mm	58mm	36mm	-	-	62mm
466	36mm Hexagon, Deep	54mm	57mm	36mm	-	-	100mm
451	38mm Hexagon	54mm	58.5mm	38mm	-	-	62mm
465	38mm Hexagon, Deep	54mm	58.5mm	38mm	-	-	100mm
456	39mm Hexagon	54mm	59mm	39mm	-	-	62mm
457	39mm Hexagon, Deep	54mm	63mm	39mm	-	-	100mm
452	41mm Hexagon	54mm	63mm	41mm	-	-	65mm
458	41mm Hexagon, Deep	54mm	63mm	41mm	-	-	100mm
449	42mm Hexagon	54mm	64mm	42mm	-	-	65mm
470	42mm Hexagon, Deep	54mm	64mm	42mm	-	-	100mm



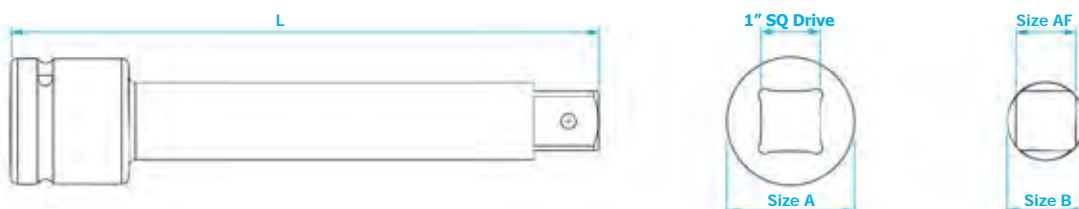
**RECTANGULAR SCREW SPIKE SOCKETS 1" SQ DRIVE**

Part No.	Description	Size A Ø	Size B Ø	Size AF	Size AF 1	Size AF 2	Length
454	21mm x 28mm Rectangle	54mm	54mm	-	21mm	28mm	62mm
454D	21mm x 28mm Rectangle, Deep	54mm	54mm	-	21mm	28mm	100mm
497	24mm x 28mm Rectangle	54mm	54mm	-	24mm	28mm	62mm
511	24mm x 20mm Rectangle	54mm	54mm	-	24mm	20mm	62mm



**EXTENSIONS**

Part No.	Description	Size A Ø	Size B Ø	Size AF	Size AF 1	Size AF 2	Length
400	5" Extension	54mm	33mm	1"	-	-	127mm
407	8" Extension	54mm	33mm	1"	-	-	203.2mm
408	10" Extension	54mm	33mm	1"	-	-	254mm
409	12" Extension	54mm	33mm	1"	-	-	304.8mm
414	6" Extension	54mm	33mm	1"	-	-	152.4mm
415	16" Extension	54mm	33mm	1"	-	-	406.4mm



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**PETROL IMPACT WRENCH (MADE IN EUROPE)**

**MASTER35 CARRIER - MODEL NO. 1750 SERIES**

Designed for use with the Master 35 Petrol Impact Wrench and other tools. The MASTER35 carrier is fitted with a simple but effective dead man handle braking system. The brake wheel has three locking positions for additional safety.

Using the Master Carrier reduces manual handling, makes it easier and quicker to use equipment, improves operator comfort and increases productivity.

It is made up of three main parts- Main Frame, Cross Bar and Wheel Assembly and can be easily assembled in a few minutes. Each part is small and light enough to be carried manually or transported in a car or small van.

There are two optional accessories which allows the Master to be used in a vertical or horizontal position for Screw Spikes, removing/fitting Fishplate/Joint Bar fasteners and removing rusty clips.



**SPECIFICATIONS**

Model No.	Description	Approx. Weight (kg)	Dimensions Assembled LxWxH (mm)
<b>1750.0090</b>	Carrier – <b>Narrow Gauge</b> 1067mm	35.8	1080 x 1625 x 870 Open (440 locked)
<b>1750.0100</b>	Carrier – <b>Standard Gauge</b> 1435mm	30	
<b>1750.9999</b>	Carrier – <b>Broad Gauge</b> 1600mm		

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>2801.7560</b>	Hook Assembly for horizontal use
<b>2801.7550</b>	Wrench Bracket for vertical use (Old Model)
<b>2801.7565</b>	Wrench Bracket for vertical use (New MA Model)
<b>2801.7520</b>	Narrow Gauge to Standard Gauge & Broad Gauge to Standard Gauge Bar 1435mm
<b>2801.7525</b>	Narrow Gauge to Broad Gauge & Standard Gauge to Broad Gauge Bar 1600mm
<b>2801.7535</b>	Wheel Assembly Standard Gauge & Broad Gauge to Narrow Gauge
<b>2801.7515</b>	Bar 1000mm Standard Gauge & Broad Gauge to Narrow Gauge
<b>2801.7530</b>	Wheel Assembly Kit with Handle for Standard & Broad Gauge
<b>28004800</b>	Safety Locking Knob for Carrier

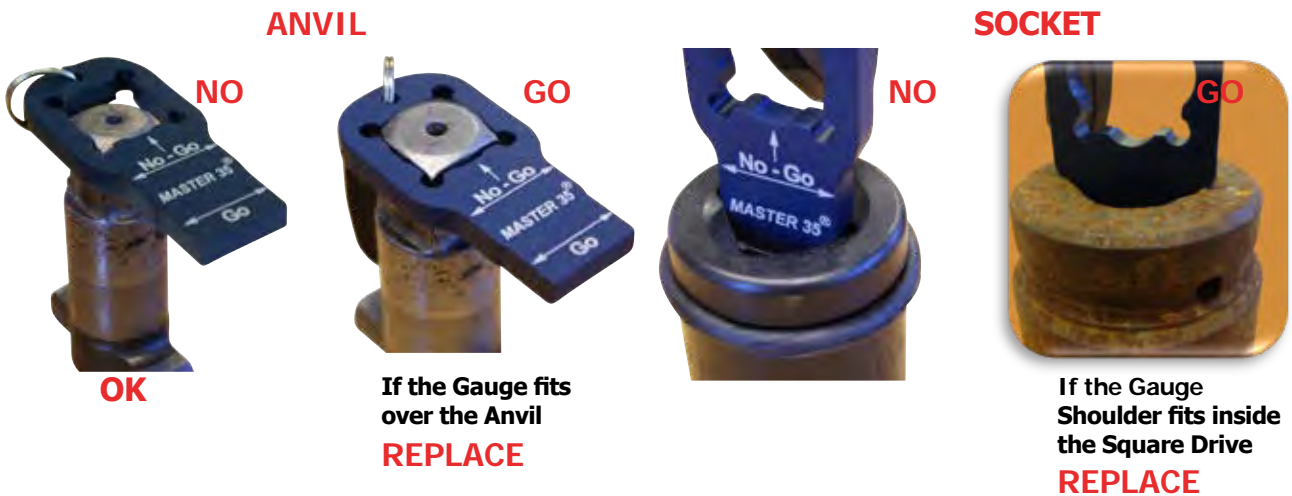


## MASTER35 NO-GO GAUGE FOR WORN IMPACT SOCKETS

The Master 35® Anvil and Socket No Go Gauge was developed to help Fitters and operators decide when to replace worn parts on 1" Square Drive Wrenches and Sockets, Extensions etc.

Using worn Sockets on a good Anvil and good Sockets on a worn Anvil creates extra vibration, causes damage to the Wrench and increases the time it takes to loosen/tighten fasteners.

If the gauge can be fitted over the Anvil or fully inside the Socket Square Drive they should be replaced.



The Gauge is supplied with a Clip so it can be attached to a Key Ring or Belt to reduce the chances of it being lost.

It is made from high quality Aluminium hardened for long life. When the Aluminium is exposed then the Gauge itself is worn and should be replaced.

The Master 35 Anvil and Socket Gauge can be used on all types of 1" Square Drive Impact Wrenches and other brand Impact Sockets and Accessories

**TORX® HEAD SCREW SPIKE HEAD IMPACT SOCKETS 1" SQUARE DRIVE**

- External TORX® head railway spikes
- 1" Square Drive Impact Sockets
- High Quality Impact Grade
- For Assembly and Repair Of Railway Tracks



Model No.	TORX Size	Length (mm)	Width Bolt/Spike End (mm)	Width Drive End (mm)	Depth Internal (mm)
<b>63350018</b>	E18	65	28	54	12.5
<b>63350020</b>	E20	65	30	54	14.0
<b>63350022</b>	E22	65	33	54	15.0
<b>63350024</b>	E24	65	36	54	16.5
<b>63350026</b>	E26	65	39	54	18.0
<b>63350028</b>	E28	65	42	54	24.5
<b>63350030</b>	E30	65	45	54	24.5
<b>63350032</b>	E32	65	48	54	24.5

**DRILLS, SAWS & IMPACT WRENCHES**

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## 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 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.



**BUSHRANGER**



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 SPC*	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

\*"SPC" Model specifically improved design for Australian Hardwood Pole Inspection drilling





**IMPACT WRENCHES (MADE IN USA)**



Large lifting eye for easy and secure storage

High strength cast motor enclosure protects impact mechanism

Improved centre-of-gravity for superior ergonomics

Longer, wider trigger provides improved control especially with a gloved hand

Impact and temperature resistant replaceable polymer grip dissipates heat

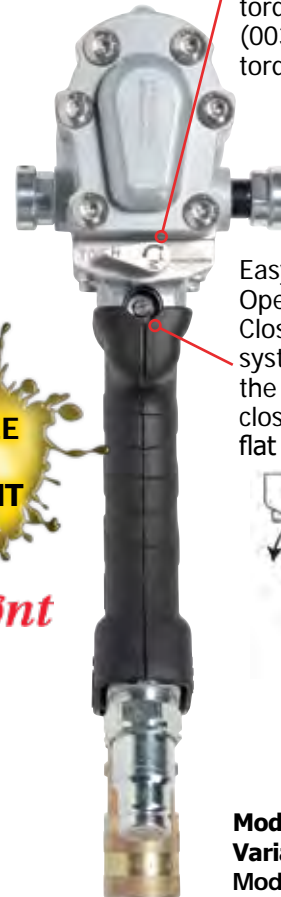
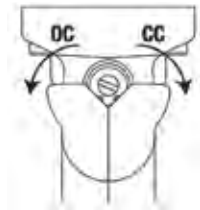
Internal hydraulic check valve eliminates damage from an improperly connected tool



**Trigger Guard Model Shown**

Torque adjustment select or for quick adjustment of output torque settings (00372 variable torque model only)

Easy change between Open Centre and Closed Centre systems. To change the spool to open or closed circuit use a flat tip screw driver.



**Model No. 00372 Variable Torque Model Only**



**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.

Refer pages 26-27 for impact accessories



**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	00372/FF
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	High torque 1/2" square drive impact wrench with 7/16" hex quick change chuck and 49314 heavy-duty adapter (no trigger guard but includes M&F flush face couplings)
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)
00373/FF	High torque 1/2" square drive impact wrench with torque adjustment, 7/16" hex quick-change chuck and 49314 heavy-duty adapter (no trigger guard but includes 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



Refer pages 26-27 for impact accessories

DRILLS, SAWS & IMPACT WRENCHES

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## NUT RUNNERS

### ORDERING INFORMATION

Model No.	Description
<b>45798</b>	(NR1) Nut Runner c/with 7/16" quick change adapter
<b>20920</b>	(NR2) Nut Runner c/with 7/16" quick change adapter
<b>49782</b>	Quick change adapter only to suit (NR1) Nut Runner
<b>21111</b>	Quick change adapter only to suit (NR2) Nut Runner

### 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	<ul style="list-style-type: none"> <li>• 1"</li> <li>• 13/16"</li> <li>• 3/4"</li> <li>• 5/8"</li> </ul>	<ul style="list-style-type: none"> <li>• 1-1/2"</li> <li>• 1-5/16"</li> <li>• 1-1/8"</li> </ul>

### 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.



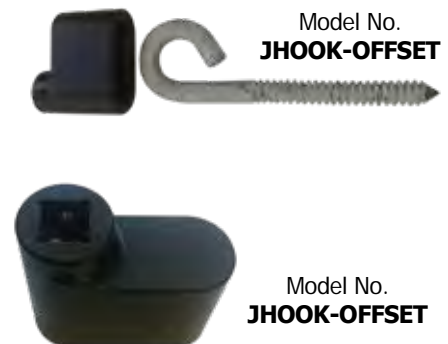
## IMPACT ADAPTORS & EXTENSION

Model No.	Image #	Description
<b>2801</b>	1	Impact adaptor 1/2 square drive m x 7/16 hex dr male blue bully - designed for high powered torque impact wrenches, advanced technology, superior wear resistance
<b>49314</b>	2	Impact adaptor 1/2" square drive x 7/16" hex male - heavy duty
<b>EX-501-5</b>	3	Impact adaptor 1/2" square drive x 7/16" hex male - lock pin, 127mm long
<b>EX-501-B-5</b>	4	Impact adaptor 1/2" square drive x 7/16" hex male - lock ball, 127mm long
<b>XAD4-3</b>	5	Impact adaptor 1/2 dr f x 3/8 dr m
<b>XAD4-6</b>	5	Impact adaptor 1/2 dr f x 3/4 dr m
<b>X4X-125</b>	6	1/2 Drive impact extension 125mm
<b>X4X-250</b>	6	1/2" Drive impact extension 250mm
<b>X4UJB</b>	7	1/2 Drive impact universal joint
<b>2403</b>	8	7/16" Hex (1/2" Square Drive) Heavy Duty quick change chuck (Suits Bushranger Impact Auger Bits)



## IMPACT DRIVER - J HOOK

Two different types of "J" Hook Drivers (1/2" sq drive). Used with Impact Adaptor (# 2801) above to drive in or remove "J" hooks on hardwood utility poles, for service connections. One centred and the other is offset.



**IMPACT SOCKETS, ADAPTORS & EXTENSIONS**



Model No. **MET-2450**



Model No. **98413L**

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

Model No.	Brand	Description
<b>MET-2450</b>	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
<b>98413L</b>	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
<b>MET3000</b>	as above (t) Sizes included in set (17 Sockets)	As above (11-25 + 30 & 36mm)

Metrinch are the only sockets that work on metric (mm), inch (SAE/AF), BSW, BSF/BS and rounded or damaged nuts and bolts. Metrinch 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.	Metric Size	Inch Size (SAE/AF)	BSW	BSF/BS
	6	1/4	-	-
	7	9/32	-	-
	8	5/16	-	-
	9	11/32	1/8	-
	10	3/8	-	-
<sup>1</sup> <b>MET-2251B</b>	11	7/16	3/16	1/4
<sup>1</sup> <b>MET-2252B</b>	12	15/32	-	-
<sup>1</sup> <b>MET-2253B</b>	13	1/2	-	-
<sup>1</sup> <b>MET-2254B</b>	14	19/32	1/4	5/16
<sup>1</sup> <b>MET-2255B</b>	15	9/16	-	-
<sup>1</sup> <b>MET-2256B</b>	16	5/8	5/16	3/8
<sup>1</sup> <b>MET-2257B</b>	17	11/16	-	-
<sup>1</sup> <b>MET-2258B</b>	18	23/32	-	-
<sup>1</sup> <b>MET-2259B</b>	19	3/4	3/8	7/16
<sup>1</sup> <b>MET-2260B</b>	20	25/32	-	-
<sup>1</sup> <b>MET-2261B</b>	21	13/16	7/16	1/2
<sup>1</sup> <b>MET-2262B</b>	22	7/8	-	-
<sup>1</sup> <b>MET-2263B</b>	23	29/32	1/2	9/16
<sup>1</sup> <b>MET-2264B</b>	24	15/16	-	-
<sup>1</sup> <b>MET-2265B</b>	25	1	-	-
	26	1 & 1/8	9/16	5/8
<b>MET-2267B</b>	27	1 & 3/32	-	-
<b>MET-2268B</b>	28	1 & 1/8	-	-
	29	1 & 5/32	5/8	11/16
<sup>1</sup> <b>MET-2270B</b>	30	1 & 3/16	-	-
	31	1 & 7/32	-	-
<b>MET-2272B</b>	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
<b>X410ML</b>	10mm	<b>X414L</b>	7/16"
<b>X411ML</b>	11mm	<b>X416L</b>	1/2"
<b>X412ML</b>	12mm	<b>X418L</b>	9/16"
<b>X413ML</b>	13mm	<b>X420</b>	5/8"
<b>X414ML</b>	14mm	<b>X420L</b>	5/8"
<b>X415ML</b>	15mm	<b>X422L</b>	11/16"
<b>X416ML</b>	16mm	<b>X424L</b>	3/4"
<b>X417ML</b>	17mm	<b>X425L</b>	1"
<b>X418ML</b>	18mm	<b>X426L</b>	13/16"
<b>X419ML</b>	19mm	<b>X428L</b>	7/8"
<b>X420ML</b>	20mm	<b>X430L</b>	15/16"
<b>X421ML</b>	21mm	<b>X434L</b>	1 1/16"
<b>X422ML</b>	22mm	<b>X436L</b>	1 1/8"
<b>X423ML</b>	23mm	<b>X438L</b>	1 3/16"
<b>X424ML</b>	24mm	<b>X440L</b>	1 1/4"
<b>X425ML</b>	25mm	<b>X442L</b>	1 5/16"
<b>X426ML</b>	26mm		
<b>X427ML</b>	27mm		
<b>X429ML</b>	29mm		
<b>X430ML</b>	30mm		
<b>X432ML</b>	32mm		
<b>X436ML</b>	36mm		





# **Rail Material Handling**







**RAIL MATERIAL HANDLING EQUIPMENT**

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**RAIL TONGS (MADE IN CANADA)**

All IPS tongs are designed for long-term field performance and are made from high-strength alloy steel. Every tong is individually magnetic particle tested, pull test certified, and engraved with a serial number to maximise worker safety.

**MODEL NO. RHD SERIES**

**RHD3.3-IPS**



**RHD6.0-IPS**



**RHD8-IPS**



**RHD10-IPS**



**FEATURES**

- Manufactured from forge cast high-strength alloy steel
- Rugged design for long term, high field performance
- Designed to open automatically when lowered onto the head of a rail
- Will handle most rail profiles
- Each tong is magnetic particle tested
- and proof load tested
- Pull test certified
- Engraved with a serial number to maximize worker safety
- Units type tested to a minimum of 5:1 safety factor lifting
- Two lifting handles **(RHD6.0/8 only)**

**SPECIFICATIONS**

Model No.	WLL Capacity (kg)	Type	Pivot Bolt	Proof Test (kg)	Suits Up to Rail (kg)	Unit Wt (kg)
<b>RHD3.3-IPS</b>	3,000	LITTLE DAWG	19mm / 3/4"	7,500	68	6.8
<b>RHD6.0-IPS</b>	5,400	RAIL DAWG II	32mm / 1-1/4"	13,607	68	22.7
<b>RHD8-IPS</b>	7,000	BIG DAWG	32mm / 1-1/4"	18,000	68	37.3
<b>RHD10-IPS</b>	9,000	MEGA DAWG	35mm / 1-3/8"	22,679	68	40.8



**RHD3.3-IPS**



**RHD6.0-IPS**



**RHD8-IPS On 68kg Rail**



**RHD10-IPS**

RAIL MATERIAL HANDLING

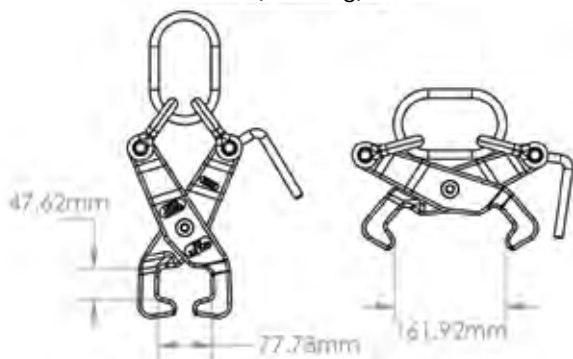
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**RAIL TONGS (MADE IN CANADA)**

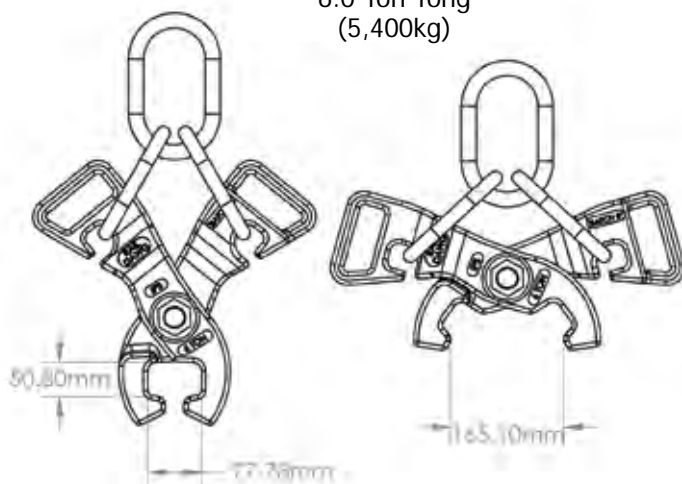
**RHD3.3-IPS**

3.3 Ton Tong  
 (3,000kg)



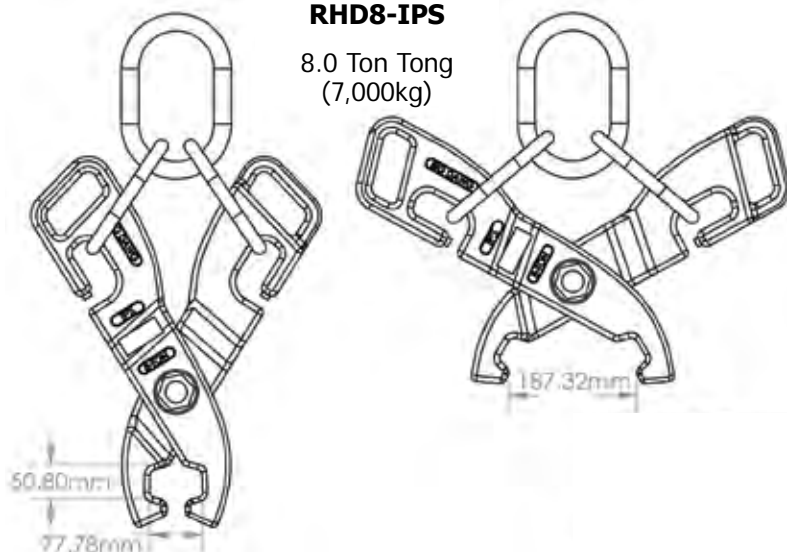
**RHD6.0-IPS**

6.0 Ton Tong  
 (5,400kg)



**RHD8-IPS**

8.0 Ton Tong  
 (7,000kg)



**RAIL MATERIAL HANDLING**

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## RAIL THREADING TONGS & SPREADER BARS (MADE IN CANADA)



Model No. LSB-IPS-IU is a spreader bar that features 2 x RH3.3-IPS refer pages 32-33 for tong details only

### RAIL THREADING TONG – MODEL NO. VARIOUS

The "Jefferson" Rail Threading Tong is a unique high-performance rail threader that operates like a conventional rail threader, but has 2 rollers mounted on each jaw of the tong to allow the rail to thread through the tongs. Supplied with a rounded handle for use with a crane hook.

#### FEATURES

- Magnetic particle tested
- Load Pull Tested
- Automatically opens when lowered onto rail head
- Replacement roller assemblies available
- Available upon request square handle for use with IPS rail tongs only



2310045A

2310045B

#### SPECIFICATIONS

Model No.	WLL (kg)	Proof Test (kg)	Handle Type	Replacement Roller	Dimensions (mm)	Unit Wt (kg)
<b>2310045B</b>	2,721*	4,000	Crane Hook	2310045A-01	317 x 254 x 610	61.8
<b>2310045A</b>	2,721*	4,000	Square Handle	2310045A-01	317 x 254 x 610	62.7

#### SPARE PARTS

Model No.	Description	WLL (kg)
<b>2310045A-01</b>	Complete with axles, bearings, lock washers and nuts	9.0





**FROG LIFTING TONGS / FROG DAWG II TONGS (MADE IN CANADA)**

All IPS tongs are designed for long-term field performance and are made from high-strength alloy steel. Every tong is individually magnetic particle tested, pull test certified, and engraved with a serial number to maximise worker safety.

Frog lifting tongs designed to lift most styles of railway frogs with a minimum safety factor of 3.6.

**FEATURES**

- Magnetic particle tested
- Load Pull Tested
- Manoeuvring unit handles keeps operator hands free of “pinch” points when positioning tong



**SPECIFICATIONS**

Model No.	Capacity (kg)	Proof Test (kg)	Dimensions (mm)	Unit Wt (kg)
<b>FHD6.0-IPS</b>	5,443	19,594	673 x 432 x 203mm (813mm with handle raised)	27

**ALDON 4123 SERIES TIMBER SLEEPER TONGS (MADE IN USA)**



Lifting tongs used on timber sleepers for rail.

Model No.	Image	Description	Jaw Opening (mm)	Unit Weight (kg)
<b>4123-15</b>		Skidding Tongs	553	4.5
<b>4123-88</b>		Timber Carrier (Crane Type)	737	23.8
<b>4123-85</b>		Aluminium Tie Tong (replaceable tip)	394	4.1
<b>4123-23</b>		Two-Man Timber Tong	394	5.5
<b>4123-125</b>		Switch Frog Crane Tongs	N/A	20.8



**MODEL NO. 2310108A HAND SLEEPER/TIMBER TONGS**

Efficient lightweight design for ease of manual handling and long term performance. Ergonomic handles and designed with removable tips. Supplied with two installed grasping tips. Replaceable tips are heat treated and high-strength, 89mm long with a 9.5mm diameter shank, complete with nut and lock washer for use with both fabricated and cast aluminium sleeper.

**FEATURES**

- Made from high quality cast Aluminium
- Light weight and ergonomic
- Designed for individual hand use
- Replacement Tips available (Model No. 2310109A)

**SPECIFICATIONS**

Model No.	Tong Type	Dimensions (mm)	Replacement Tips #	Unit Wt (kg)
<b>2310108A</b>	Sleeper	787 x 286 x 134	<b>2310109A</b>	3.5



**Replacement Tips # 2310109A**

**MODEL NO. TT2.2-IPS SLEEPER / TIMBER TONGS (MADE IN CANADA)**

Includes replaceable tips designed specifically for lifting sleepers, wood and timbers with machinery. Designed for long-term field performance and made from high-strength alloy steel. Individually magnetic particle tested, pull test certified, and engraved with a serial number to maximise worker safety.

- Cast from high strength alloy steel.
- Jaw profile designed to handle wide range of sleeper and timber sizes
- Replaceable tips (Model No. **T-500-IPS**) available in 12.7mm

Model No.	Tong Type	Dimensions (mm)	Replacement Tips #	Unit Wt (kg)
<b>TT2.2-IPS</b>	Sleeper	267 x 77 x 597	<b>T-500-IPS</b>	10.1



RAIL MATERIAL HANDLING

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**RAIL PULLER (MADE IN CANADA)**

**MODEL NO. 231000C**

The Cyclops II Rail Puller has positive cam-lock action to prevent slippage when pulling long lengths of rail. Its unique cam design will accommodate most rail profiles. The Cyclops II Rail Puller has a 22,679kg working load limit, based on a safety factor of 2, is manufactured from high-strength steel alloy and is designed to pull 402 metre lengths of rail. It can also be connected to a crane hook without a shackle.

**FEATURES**

- Magnetic Particle Tested
- Cam-lock enhanced rail-grip
- Folds down for storage/transport to: 305x280x255mm



**SPECIFICATIONS**

Model No.	Dimensions (mm)	WLL (kg)	Proof Test (kg)	Unit Wt (kg)
<b>231000C</b>	305x203x381 Folds to (305x280x255)	22,679	45,358	37

**RAIL TUGGER (MADE IN USA)**

**RAIL TUGGERS - MODEL NO. VARIOUS**

Do not attempt to lift rail with tuggers, they are designed for pulling purposes only – **NOT FOR LIFTING.**



Model No.	Model No.
<b>4123-72</b>	<b>4106-24</b>
<b>FEATURES</b>	<b>FEATURES</b>
Has a self-locking wedge to tightly grab rail. Use Tugger to drag or position 12m lengths of rail. Handles rails 45-64kg/m Always pull horizontally. Do not use on Crane Rail.	Custom sized for a specific crane rail size and section. Steel wedge dogs clamp to rail head for positive anchoring. Pull horizontally to drag or position 12m lengths of rail. Pulling direction must always be in the direction shown above, so wedge drives itself into slot between wedge dogs. Unit can also be used as a rail anchor for pulling an inoperative overhead crane by means of a come-along pulper.

**SPECIFICATIONS**

Model No.	Suits Rail Type	Maximum Length of Rail (m)	Handles Rails	Wt (kg)
<b>4123-72</b>	Standard "T"	12	45-64kg/m	18.2
<b>4106-24</b>	Crane	12	Crane Maximum Limit 1,814kg	7.7 (Approx. Depends on rail size)

RAIL MATERIAL HANDLING

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**BALL & RAIL THREADERS (MADE IN CANADA)**

The IPS Bull Dawg Rail Threader is robust and designed with high quality bearings and rollers to ensure long-lasting performance. Available with either square handle for use with the IPS rail tongs or the triangular, peaked (hook) handle for use with a crane hook. The threaders are designed to be easily unlocked, opened then dropped over the top of the rail then closed and re-locked.

**FEATURES**

- Heavy duty rollers
- Manufactured from high-strength steel
- Rugged design for long term, high field performance
- Will handle most rail profiles
- Test certified
- Engraved with a serial number
- 5:1 safety factor for lifting



**SPECIFICATIONS**

Model No.	Handle Type	WLL (kg)	Proof Test (kg)	Unit Wt (kg)
<b>2310044C</b>	Square	5443	7,257	129.3
<b>2310044D</b>	Hook	5443	7,257	127.0

Model No.	Description	Dimensions (LxW) (mm)	Weight (kg)
<b>1347</b>	Replacement pivot bar and roller assemblies to suit 2310044C & 2310044D. Complete with heavy duty rollers, bearings and axles.	381 x 102	13.6



**RAIL THREADER MODEL NO. HDT-500**

At just 43.1kg, the Hound Dawg rail threader provides heavy-duty performance in a comparatively light and easy to handle unit. Heavy-duty rollers are designed with protected bearings for long term performance.



**FEATURES**

- Hardened rollers with enclosed bearings for increased durability
- Lifting Bell locks into upright position
- Replaceable heavy-duty rollers & bearings available.

**SPECIFICATIONS**

Model No.	Dimensions (mm)	WLL (kg)	Replacement Heavy Duty Rollers & Bearings Model No.	Unit Wt (kg)
<b>HDT-500</b>	406 x 381 x 254 (355 with handle raised)	4,535	<b>HDT-500-01</b>	43.1



Replacement rollers are supplied complete with axle, bearing, lock washer and nut.  
**HDT-500-01**





**BALL/RAIL THREADERS & RAIL RUNNERS (MADE IN CANADA)**

**RAIL THREADER MODEL NO. 2310004C**

This robust threader with hinged door is manufactured with heavy-duty rollers and bearings and is designed for welded rail. Replacement rollers available.

**FEATURES**

- Hardened rollers with enclosed bearings for increased durability
- Lifting Bell locks into upright position
- Replaceable heavy-duty rollers & bearings available



**SPECIFICATIONS**

Model No.	Dimensions (mm) LxWxD	Replacement Heavy Duty Rollers & Bearings Model No.	Replacement Bearings Wt (kg)	Unit Wt (kg)
<b>2310004C</b>	673 x 711 x 483	<b>2310004C-01</b>	20.0	168.2

**RAIL RUNNER**

**MODEL NO. 2310055A**

The IPS Railrunner is a heavy duty rail handling device for laying new rail. Ideal for use with wooden or concrete sleepers. Unique design allows units to be locked together into compact stacks to minimise freight costs and storage requirements. Units can be positioned to work between sleepers or spiked to the top of wooden sleepers. Space Railrunners every 10-20 sleepers for maximum field performance.

**FEATURES**

- Unique lock together design
- Heavy duty construction

**SPECIFICATIONS**

Model No.	Unit Wt (kg)
<b>2310055A</b>	20



**RAIL RUNNER STORAGE SYSTEM - MODEL NO. 2310055A-03**

This heavy-duty frame is designed to store up to 50 railrunners and can also be used as a shipping crate. The storage system is designed to be moved with forklift or overhead crane.

Model No.	Frame Weight (kg)
<b>2310055A-03</b>	132

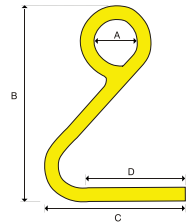


**RAIL MATERIAL HANDLING (MADE IN AUSTRALIA)**

High-quality, powder-coated rail material handling equipment made in Australia, including sleeper lifting hooks, rail lifting tongs, collar-type rail lifting clamps, and rail roll-over hooks.

**SLEEPER LIFTING HOOK MODEL NO. SLH1.5T**

High quality powder coated lifting hook for lifting rail sleepers.

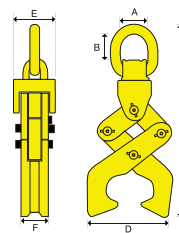


**SPECIFICATIONS**

Model No.	WLL (kg)	Dimensions (mm)					Unit Wt (kg)
		A	B	C	D	E	
<b>SLH1.5T</b>	800/Pair	50	240	170	125	19	1.1

**RAIL LIFTING TONG MODEL NO. RLT3T SERIES**

High quality forged lifting tong, automatically opens on the head of the rail. Available as standard or locking model.

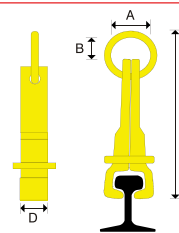


**SPECIFICATIONS**

Model No.	WLL (kg)	Suits Rail (kg)	Dimensions (mm)					Unit Wt (kg)
			A	B	C	D	E	
<b>RLT3T</b>	3,000	41-68	48	46	370	150	50	8.8
<b>RLT3T-LOCK</b>	3,000	41-68	48	46	370	150	50	8.8

**COLLAR TYPE RAIL LIFTING CLAMP MODEL NO. RLC2.5T SERIES**

Suits rail from 41-68kg

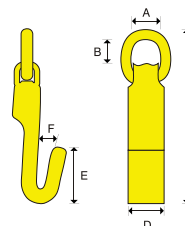


**SPECIFICATIONS**

Model No.	WLL (kg)	Suits Rail (kg)	Dimensions (mm)				Unit Wt (kg)
			A	B	C	D	
<b>RLC2.5T</b>	2,500	41-68	100	75	440	65	11.5

**RAIL ROLL OVER HOOK MODEL NO. RORH**

High quality powder coated roll over hook for turning over rail. NOT TO BE USED FOR LIFTING.



**SPECIFICATIONS**

Model No.	WLL (kg)	Dimensions (mm)						Unit Wt (kg)
		A	B	C	D	E	F	
<b>RORH</b>	2,000	40	35	255	50	85	20	2.9



**RAIL HANDLING EQUIPMENT (MADE IN CANADA)**

**RAIL TETHER CLAMP - MODEL NO. RTC-550**



The IPS Rail Tether Clamp is a unique tool that allows rails to be off-loaded safely. Designed to attach quickly to the end of a rail, the tether clamp allows a worker to guide and control a rail during loading and unloading, and minimises the risk of accidental employee injury and property damage. Rope and attachment clasp included.

**SPECIFICATIONS**

Model No.	Length of Rope (m)	Clamp suits Rail Size (kg)	Unit Wt (kg)
<b>RTC-550</b>	15.2	41-68	2.0

RAIL MATERIAL HANDLING

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## AUTOMATIC LIFTING HOOK (MADE IN SWEDEN)

### MODEL NO. IS SERIES



This new concept saves time and increases safety. Lifting operations with mobile cranes and industrial hoists can safely be managed by the operator alone. The operator can remain at the controls during lifting and release operation.

### FEATURES

- Automatically hooks up, safety locks and releases
- The risk for injury is dramatically reduced
- No climbing or assistance required



SCAN FOR IN-USE VIDEO



The GIGASENSE IS Hook consists of hook, housing and link. Forged hook, housing and link are of high-grade alloy steel. Unloaded, the spring loaded hook is pulled up against the housing in an open, ready-to-load position where it can easily be hooked onto a lifting eye or other attached hardware.

### NOTE: SLINGS ARE NOT RECOMMENDED FOR USE WITH AUTO-LIFTING HOOK

1. When the GIGASENSE IS Hook is engaged, the load tension closes the hook and the safety latch is automatically locked.
2. The hook remains safety locked even if it is unloaded. It is therefore possible to safely set down the load and make sling adjustments.
3. To release the safety lock after completed lifting operation, the hook is lowered until the upper link has tilted approximately 60° in relation to the housing.
4. When the lock is released, the hook swings up into an open starting position.
5. The load is released, and the hook is ready for a new lifting operation.



**HOOK UP**  
Lifting eye or sling.



**LOWER**  
After completed lifting operation the GIGASENSE IS Hook is lowered until it tilts into release position and opens.



**LIFT**  
When the GIGASENSE IS Hook is engaged, the load tension automatically safety locks the hook and housing assembly.



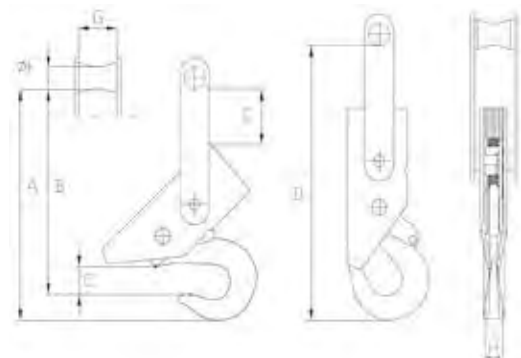
**RELEASE**  
The GIGASENSE IS Hook automatically frees itself from the load and is ready for the next lifting operation.

The Hook is tested and approved by the Swedish Institute for Materials Testing.

Available in 6 sizes from 1.6 - 21.6 tonnes. Easy to operate, has rugged design and a high reliability.

Applications include but are not limited to; Blasting mats, pipes, pumps, machines, gas bottles and general lifting.

**Transport Case and a list of spares are available upon request.**  
Please contact your nearest Specialised Force branch for more information.



### SPECIFICATIONS

Model No.	Type	WLL (Tonne)		Locking Force (kg)	Dimensions (mm)							Wt (kg)
		Safety Factor	5:1		A	B	C	D	E	F	G	
<b>300159</b>	IS-2	1.6	40-50	310	280	60	340	80	20	42	3.0	
<b>300165</b>	IS-5	4	50-70	360	325	50	430	90	32	67	6.7	
<b>300161</b>	IS-10	8	200-250	490	425	65	580	110	44	58	15.0	
<b>300162</b>	IS-15	12	500-700	525	460	80	625	115	54	72	24.0	
<b>300163</b>	IS-20	16	600-800	580	500	80	700	130	65	83	37.0	
<b>3001515</b>	IS-27	21.6	500-1500	608	530	100	725	125 Lock 175 Release	65	92	37.0	



**MODEL NO. RSL-800 RAIL SHOE (MADE IN CANADA)**

Lightweight rail shoe to facilitate dragging lengths of rail without catching on terrain or other obstacles. Also referred to as rail skidding shoe or rail dragging shoe.



Model No.	Dimensions LxWxH (mm)	Max Bolt Size (mm)	Unit Wt (kg)
<b>RSL-800</b>	470x127x165	31.75	5.9

**SLEEPER HANDLING EQUIPMENT (MADE IN THE UK)**

High quality powder coated lifting hook for lifting rail sleepers.

Model No.	Description	Model No.	Description
<b>RB/BR/007B</b>	Pandrol Housing Sleeper Hook - Left	<b>RB/BR/007A</b>	Pandrol Housing Sleeper Hook - Right
<b>RB/BR/225E-L</b>	E Clip Dropper Chain Assembly Left	<b>RB/BR/225E-R</b>	E Clip Dropper Chain Assembly Right
<b>39/68953</b>	E Clip Sleeper Scissor Lifter Rb/Br/142	<b>RB/BR/080</b>	Fastclip Lifting Plate
<b>RB/BR/142/ASSY</b>	E Clip Scissor Dropper Chain Assembly	<b>RB/BR/225FC</b>	Fastclip Dropper Chain Assembly



Pandrol 'E' Clip	Sleeper Lifter	Fastclip
Tests have shown a staggering 12 to 1 safety factor (based on 350Kg WLL). Available in left and right hand versions.	Designed to be used in conjunction with dropper chains to suit. Designed to be used in conjunction with dropper chains to suit.	The fastclip dropper chain has been developed for fast insertion on both F41 and G44 fittings. Designed to be used in conjunction with dropper chains to suit.
Standard Pandrol 'E' Clip dropper chain consists of:	Standard Pandrol 'E' Clip dropper chain consists of:	Standard Pandrol 'E' Clip dropper chain consists of:
TSH 7/8 Clevis Hook 7mm Grade 8 Short-link chain (BS EN 818:4) INJ 7 Connector Pandrol 'E' Clip hook	TSH 7/8 Clevis Hook 7mm Grade 8 Short-link chain (BS EN 818:4) K7N Kupler Sleeper Lifter	TSH 7/8 Clevis Hook 7mm Grade 8 Short-link chain (BS EN 818:4) INJ 7 Connector Fastclip hook





# ***Rail Welding, Grinding & Bending Equipment***







**WELDING, GRINDING & BENDING**

**48-56**

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**HYDRAULIC RAIL BENDER**

**MODEL NO. 4021-01**

Bend 30-60kg/m rail for switch point pockets and rail repairs. For full kit with bending head, hand pump and hose refer to the below specifications for "bender head" as well as "pump & hose" as components to make the full kit are sold separately.



**FEATURES**

- 30 tonnes of Bending Force
- Heavy Duty Cast Bending Frame
- Hydraulic cylinder has Hard Chromed Piston and Internal Bore to Resist Rusting and pitting

**SPECIFICATIONS**

**BENDER HEAD**

Model No.	Description	Rail Capacity (kg/m)	Power Source	Force (Tonne)	Wt (kg)
<b>4021-01</b>	Remote bender head package includes; - Bending Head Frame - Riken 30T Jacking Cylinder (#SJ3-125)	30-60	700bar Hydraulic Pump Required (Refer below)	30	83.6

**PUMP & HOSE**

Model No.	Item	Description	Rated Pressure (Bar)	Wt (kg)
<b>P4</b>	Pump	Riken Hand Pump, 2 Speed, Integrated Safety Valve, 1,800cc Useable Oil	700	11.5
<b>HPS-0602ER</b>	Hose	Durapac 2 metre high pressure hose with CEJN safety speed coupling one end	700	1.5

WELDING, GRINDING & BENDING

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**HYDRAULIC RAIL BENDER (MADE IN ITALY)**

**MODEL NO. PR3560 SERIES**

Consisting of a sturdy welded triangular steel bending frame with push cylinders, forming die and manually operated hand pump mounted on the frame. The pump operates two cylinders (400 bar) at the ends of the main frame. These cylinders apply 34 tonnes of force each. At the peak of the frame a forming die (designed for the web of the rail) is pinned determining the point of bend of the rail.

The thickness for positioning any type of track is so that the web of the rail is always aligned with the forming die and against the forming die.

Note: Matrix (2) & Counter Matrix dies to suit rail must be ordered with bender, see details below

Optional petrol pump available upon request



**SPECIFICATIONS**

Model No.	Push Force (kN)	Length (mm)	Width (mm)	Height (mm)	Power Source	Wt (kg)
<b>PR3560</b>	750	1,000	650	570	None Supplied	112*
<b>PR3560-P</b>	750	1,000	650	570	On Board Manual Two-Speed Pump (400 bar)	130

\* Does not include pump

**RAIL DIES – MATRIX & COUNTER MATRIX (FOR PR3560)**



MATRIX\*



COUNTER-MATRIX

\* Must order 2 units, 1 for each ram end

**SPECIFICATIONS**

Rail Type (kg)	Model No MATRIX*	Model No COUNTER-MATRIX
30	<b>PR3560-M-30</b>	<b>PR3560-CM-30</b>
41	<b>PR3560-M-41</b>	<b>PR3560-CM-41</b>
47	<b>PR3560-M-47</b>	<b>PR3560-CM-47</b>
50	<b>PR3560-M-50</b>	<b>PR3560-CM-50</b>
53	<b>PR3560-M-53</b>	<b>PR3560-CM-53</b>
60	<b>PR3560-M-60</b>	<b>PR3560-CM-60</b>
68	<b>PR3560-M-68</b>	<b>PR3560-CM-68</b>

\* Must order 2 units, 1 for each ram end

## DIESEL RAIL PROFILE GRINDER (MADE IN ITALY)

### MODEL NO. MPR4000D

The MPR4000D Diesel Rail Profile Grinder is powered by a robust 3.5kW Yanmar Diesel 4-stroke engine capable of 4,500 RPM. It offers 180° motion range without engine shutdown. The handlebar design allows the operator to grind the upper or side rail head by tilting the machine while maintaining control. It smooths both inside and outside surfaces of the rail. Maximum inclination occurs when the pin contacts the machine structure, ensuring stability. Safety features include a guarded grindstone area. Ideal for re-profiling rail heads after welding, the grinder's engine remains lubricated even when tilted to 90°. The V-belt transmission between engine and spindle housing offers efficiency, while a tension regulator ensures consistent operation. Two rollers allow for easy longitudinal displacement along the rail. Lateral supports enhance machine stability. The handwheel lets operators adjust grinding depth with a graduated scale. A block and guide rod facilitate tilting.

### FEATURES

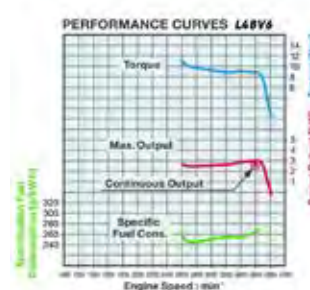
- Powered by a 3.5kW Yanmar Diesel 4-stroke engine.
- Capable of 4,500 RPM for high-performance grinding.
- 180° range of motion for versatile grinding.
- Operator-controlled grinding of both upper and side rail heads.
- Safety features include a guarded grindstone area.
- Lubrication even when tilted to 90° for consistent operation.
- V-belt transmission with tension regulator for smooth operation.
- Equipped with two rollers for easy rail displacement.
- Lateral supports ensure stability during operation.
- Handwheel for precise depth adjustment with graduated scale.

### SPECIFICATIONS

Model No.	MPR4000D
Engine	Yanmar Diesel 4 Stroke
Engine (kW)	3.5
Speed Setting (RPM)	3,600
Fuel Capacity (L)	2.0 (Steel tank)
Cooling	Air
Dimensions (mm) LxWxH	1000 x 703 x 829
Weight (kg)	71



AZ14S5B grinding cup wheels (sold separately)



### ACCESSORIES

The RAIL PROFILE GRINDING CUP WHEELS (Model No. AZ14S5B) are designed to suit most rail profile grinders. They feature 4 M8 brass nut inserts and comply with the ANSI safety standard B7.1 for safe and reliable operation.

Model No.	AZ14S5B
Pack Quantity	2
Carton Quantity	8
Size (mm)	150 x 72 x 80/55 (taper)
Maximum RPM	5,092
Weight Each (kg)	3.0

### MPR4000D IN APPLICATION



**MIT 70 SLW LIGHTWEIGHT HYDRAULIC RAIL TENSOR OR RAIL PULLER, 70 TONNE**

The main use of hydraulic rail tensors/rail pullers takes place during welding procedures. The rail tensor is used for pulling two lengths of rail together so the welding process can be performed. The MIT 70SLW can be used in both "over-rail" or "under-rail/obstruction-less" configuration. In the obstruction-less configuration trains or locomotives can pass without contacting the tensor. In addition to single use the tensors can be dual configured so that two parallel rail tensors (Model no. MIT 70/2SLW) can be controlled with one hydraulic power pump (sold separately, refer bottom of page for petrol unit).



**Over Rail**



**Obstruction-less**



**Dual Obstruction-less Configuration**

Our MIT 70SLW rail tensor is composed of two stirrups made from a special casting, eccentrics for anchoring on the rail, 2 lightweight aluminium hydraulic cylinders, 2 tie rods and 2 hydraulic hoses (requiring a hydraulic power pump to operate).

The hydraulic cylinders have a security valve that doesn't allow the operator to exceed the standard pressures. Its lightweight and compact body makes this rail tensor / puller unique in the market. It can be used on existing rails as well as new construction lines.

**SPECIFICATIONS**

Model No.	MIT70SLW	
Type	Over Rail or Under Rail/ Obstruction-less	
Hydraulic Pressure Required (bar)	650	
Double Acting Control Valve (bar)	650	
Pull (kN)	700	
Push (kN)	400	
Stroke Cylinder (mm)	380	
Dimensions (mm)	570x360x530	
Total Weight (kg)	238.8	
2 x Stirrups/Yoke (kg)	31.5 each	
4 x Eccentric (kg)	15.3 each	
2 x Cylinder (kg)	33.5 each	
2 x Tie Rods (1,520mm) (kg)	20.5 each	
1 x Set Hoses (kg)	7.6 each	
6 x Pins (kg)	1.1 each	



Durapac Petrol Hydraulic Pump

Model No. **PPM2014**

Refer page 89 for more details.  
 Electric or manual pumps also available upon request

## MODEL NO. MIT120UR HYDRAULIC RAIL TENSOR (RAIL PULLER) 120 TONNE

This FCS rail tensor is designed for pulling rail in preparation of the thermite welding of rail in complete safety. It features two 60 tonne cylinders each with a stroke of 380mm which assists in speeding up the rail pulling operation.

The robust design is able to withstand the high stresses of the traction force. Users will appreciate the single piece construction which has a centralised lifting point which allows the tensor to be placed easily onto the rail. The lifting beam is removable to allow for the welding process.

**Pump and hoses pictured sold separately, see page 89 for required pump details PPM2014.**

### FEATURES

- Removable lifting beam for welding
- Centralised beam with lifting lug
- Heavy duty steel storage case with forklift tines
- Storage case accommodates fully assembled tensor (not including pump)
- Each cylinder fitted with ball valve to positively lock cylinders under pressure



### SPECIFICATIONS

Model No.	MIT120UR
Traction Force Total (kN)	1,200
System Working Pressure (bar)	600
Hydraulic Cylinders	2 x 600kN Capacity 380mm Stroke
Tensor Weight (kg)	684
Tensor Weight With Storage Case (kg)	1050



## ENERCO KT-30 RAIL GAP ADJUSTER

The Enerco KT-30 is a hydraulically-operated hand pumped Rail Gap Adjuster, capable of either pushing or pulling rail ends with a force of up to 300 Kn or 30 tonnes. It carries its own weight on built-in rollers, for easy transit along the rail and because it is totally self contained, bulky powerpacks are not required.

The unit grips the rail head, leaving access to remove fishplates and replace insulating end posts, while still holding any tension or compression present in the rail. The Rail Gap Adjuster makes it possible to replace a failed end post without the need to wait for the rail to cool down. This can be done in less than half an hour, reducing train delays and saving significant sums of money in the process.



### DETAILS

- Replacing Insulated Joint End Posts without removing the fish plates.
- Adjusting the gap on jointed track, Switches and Crossings to correct for creep movement.
- Replacing broken and worn fishplates using our Master35® Impact Wrench or other suitable device.
- Adjusting breather switches utilising the nearest fish plate - joint.
- The KT-30 can push/pull up to 100mm (4") in a single operation and up to 250mm (10") with several passes

### SPECIFICATIONS

Length	1500mm
Width	750mm
Height	530mm
Stroke	100mm
Weight	100kg

**MODEL No. BE32AUS MANUAL CONDUIT BENDER (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.
Packed Weight	34kg
Packed Dimensions	113 x 54 x 22cm (LxWxH)

**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**



**REFER NEXT  
PAGE FOR  
SF16-32  
CONDUIT  
THREADER  
KIT**

Capacity –16-32mm Ø  
\*Steel Electrical Conduit 2.0mm thick  
and under all PVC conduits

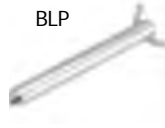


Model No. **BVICE2** 2"/50mm Pipe vice

BLP



BLP



Model No. **BLP** Bending lever pin  
**BCP** Centre pin



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

**MODEL NO. SF16-32 METRIC THREADING KIT FOR STEEL CONDUIT**

Metric conduit external end threading kit, often referred to as “Warragul Dies” these kits are used for cutting taper pipe. Contains rugged construction ratchet die holder, ideal for operation in confined spaces. Dies manufactured from carbon alloy steel.



Model No	Dies & Die Guides Included for Metric Threads (mm)	Threading Details	Kit Contents	Kit Dimensions LxWxH (mm)	Kit Weight (kg)
<b>SF16-32</b>	16, 20, 25 & 32	22R Metric Conduit @ 1.5mm Pitch	1 x Steel Carry Case 1 x Warragul Ratchet 4 x Cutting Dies 4 x Die Guides	370x135x85	6.7



**MODEL No. SLV-ND/CB BATTERY CABLE BENDER**



**OVERVIEW**

The SLV-ND/CB is the first of its kind in the electrical utility industry in battery powered cable bending. The SLV-ND/CB utilizes the pull-pin design, allowing technicians to change jaws from compression, to cutting, to cable bending. The SLV-ND/CB is just one of the many ergonomic solutions, provided by Izumi, to help reduce strains and sprains associated with the daily tasks of a powerline technician. The SLV-ND/CB has several different settings, so the tool can be used on conductor in a variety of sizes. Featuring a low profile, the SLV-ND/CB can be used in a variety of close-quarter environments; such as underground vaults, meter bases and substation applications and wherever cable bending is required.

**FEATURES**

- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- Ergonomic Design for One-Hand Operation
- 180-Degree Swivel Head
- Pull Pin Head Design
- LED Light to Illuminate Working Area
- Manufactured under ISO 9001
- Audible Bypass when Predetermined pressure is Achieved
- Tested Up To 75kV

**STANDARD ACCESSORIES**

- Wrist Strap
- Carry Case

**SPECIFICATION**

Motor	Brushless 18V
Bending capacity	25.4mm OD
Weight	6.55kg with BL1850B Battery

**ORDERING INFORMATION**

Model No.	Description
<b>SLV-ND/CB(BB)</b>	<ul style="list-style-type: none"> <li>• Inline Multitool</li> <li>• Bending Head Attachment</li> <li>• Two Li-Ion Batteries (BL1850B)</li> <li>• 230V Charger (DC18RC)</li> <li>• Carry Case</li> </ul>
<b>SLV-ND(BB)</b>	<ul style="list-style-type: none"> <li>• Inline Multitool (No heads)</li> <li>• Two Li-Ion Batteries (BL1850B)</li> <li>• 230V Charger (DC18RC)</li> <li>• Carry Case</li> </ul>
<b>SLV-ND</b>	<ul style="list-style-type: none"> <li>• Inline Multitool (Skin only)</li> <li>• Carry Case</li> </ul>
<b>SLV-CB</b>	<ul style="list-style-type: none"> <li>• Bending Head Attachment Only</li> </ul>
<b>BL1850B</b>	<ul style="list-style-type: none"> <li>• Makita 18v 5.0Ah Battery</li> </ul>
<b>DC18RC</b>	<ul style="list-style-type: none"> <li>• Makita 230V Battery Charger</li> </ul>
<b>DM18M</b>	<ul style="list-style-type: none"> <li>• 18v Makita to Milwaukee Battery Adaptor</li> </ul>

**SLV-CB  
BENDING HEAD**



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## TCS-5-161 SERIES CONTACT WIRE STRAIGHTENER

The TCS-5-161 Series are mechanical straightening devices for profiled contact wires. They allow the operator to straighten common sizes of railway contact wire (Trolley Wire) from 85mm<sup>2</sup> to 161mm<sup>2</sup>.



Small in size, lightweight and easy to use, both TCS-5's are supplied in a lockable carry case.



### SPECIFICATIONS

Model No.	<b>TCS-5-161</b>
Max. Alignment Curvature	30°
Straightening Capacity	85-161mm <sup>2</sup>
Dimensions	430 x 245 x 150mm
Weight	7.0kg

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**STEL**

**Rail  
Trolleys**





**RAIL TROLLEYS**

**62-63**

---

TROLLEY – RAIL – STEEL

62



**RAIL TROLLEY**

**OVERVIEW**

The STEL rail link and split trolleys are designed as manually propelled, stand-alone load-bearing rolling platforms for use on rail tracks. Each trolley is equipped with a fail-safe braking system and comes with detachable brake and push handles. For convenience, up to two STEL trolleys can be connected together. Additionally, the split trolley is designed to be separated into two halves, making it easier to handle and transport to and from the site.



**FEATURES**

- Insulated aluminum wheels
- Fail-safe twin brakes operated by steel pushrods
- Linkable with up to two trolleys
- Red safety light
- Full aluminum deck construction
- Ergonomically designed for easy operation

**SPECIFICATIONS**

Model No.	Deck Length (mm)	Deck Width (mm)	Deck Height from Rail Head (mm)	SWL (kg)	Overall Tare Weight (kg)
<b>LINK TROLLEY</b>	750	1,659	218	1,250	52
<b>SPLIT TROLLEY</b>	1,826	1,795	309	2,000	135

Note: Dimensions are approximate.

**ORDERING INFORMATION**

Type	LINK TROLLEY			SPLIT TROLLEY		
Track Gauge	Standard	Narrow	Broad	Standard	Narrow	Broad
Ordering Code	<b>LT1000LU</b>	<b>LT1000LU-N</b>	<b>LT1000LU-B</b>	<b>BT1000</b>	<b>BT1000LU-N</b>	<b>BT1000LU-B</b>

**COMPLIANCE**

LINK TROLLEY	SPLIT TROLLEY
- BS EN 13977:2011: Railway application - Track - Safety requirements for portable machines and trolleys for construction and maintenance.	- BS EN 13977:2011: Railway application - Track - Safety requirements for portable machines and trolleys for construction and maintenance.
- RIS 1701 PLT: Rail Industry Standard for Portable and Transportable Plant Used for Infrastructure Work.	- RIS 1701 PLT: Rail Industry Standard for Portable and Transportable Plant Used for Infrastructure Work.
- Machinery Directive 2006/42/EC.	- Machinery Directive 2006/42/EC.

RAIL TROLLEYS

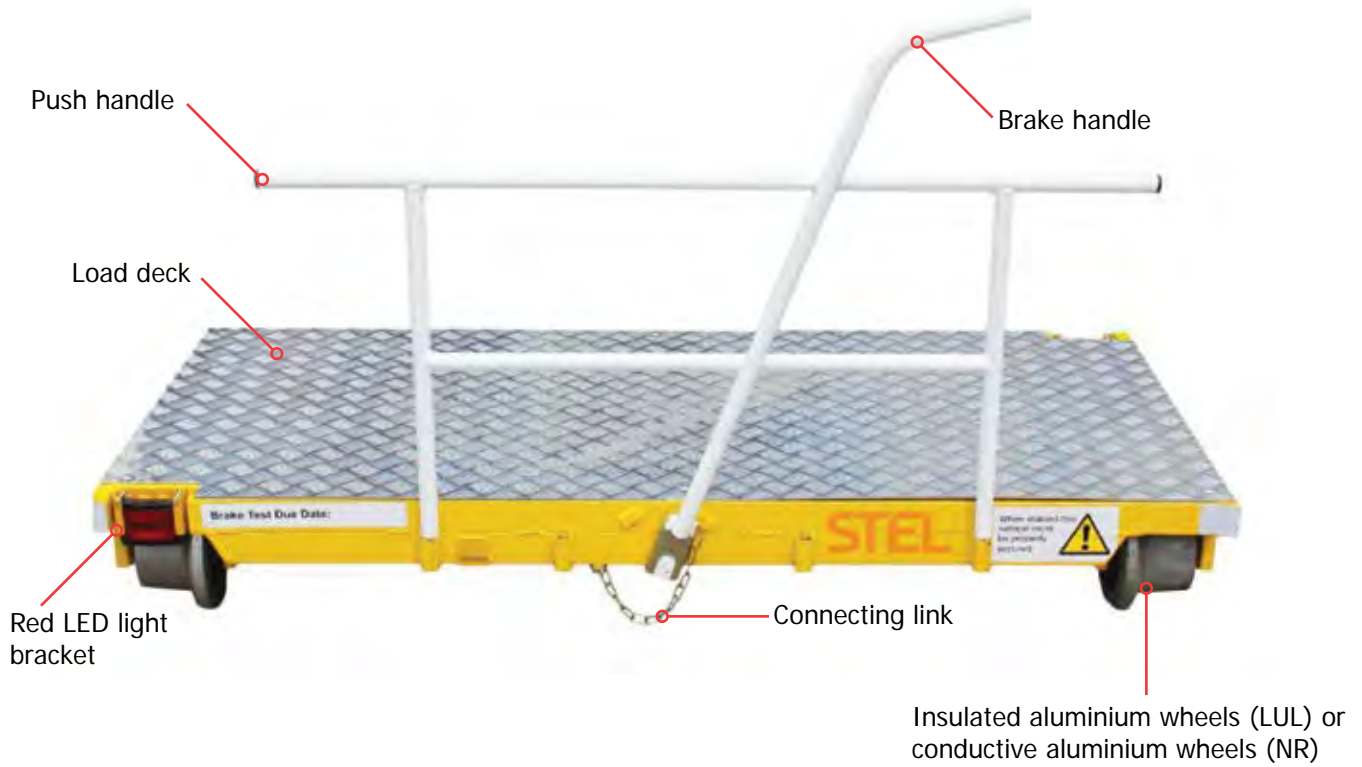
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**GENERAL LAYOUT**

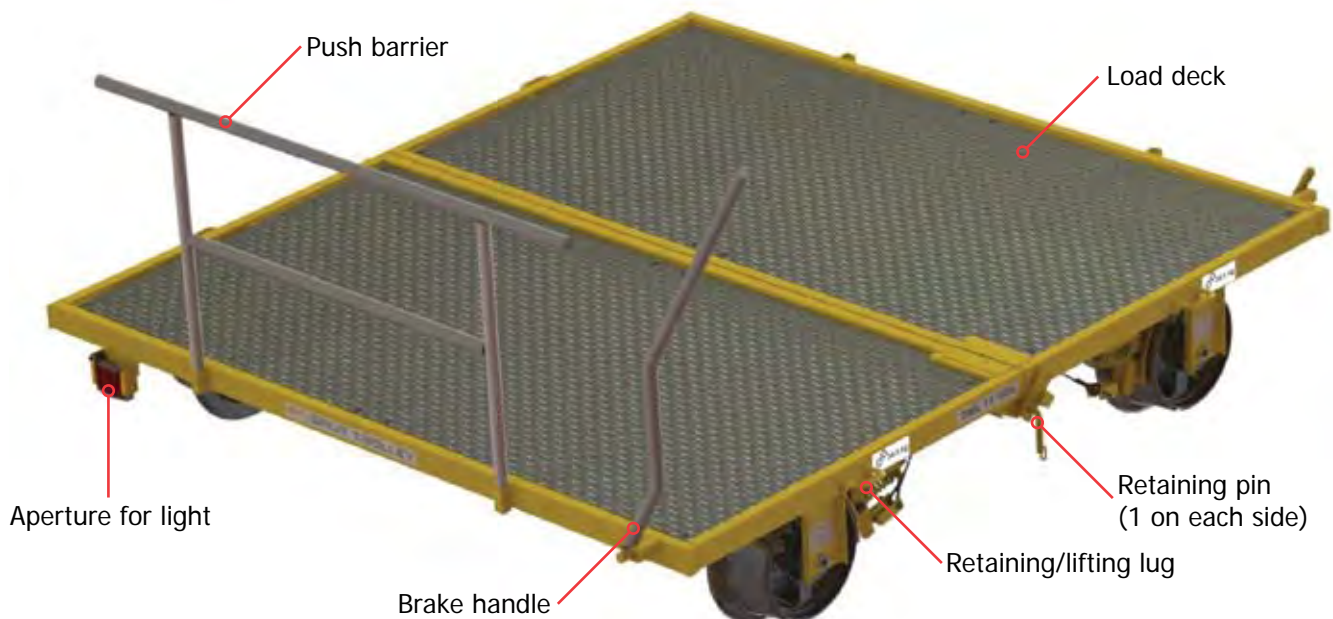
**LINK TROLLEY**

The main elements of the Link Trolley, as shown in the following diagram:



**SPLIT TROLLEY**

The main elements of the Split Trolley, as shown in the following diagram:





# Hand Tools





**HAND TOOLS**

**68**

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BARS – RAILWAY

**68**

**RAILWAY BARS**

**RAILWAY BARS - MODEL NO. VARIOUS**

- Specialty bars for various rail applications

HAND TOOLS



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**SPECIFICATIONS**

Model No.	Number Ref #	Description	Length (mm)	Shaft Type	Wt (kg)
<b>1120218</b>	1	Standard Pigs Foot	240	-	3.2
<b>A17B</b>	2	Rail Lining Bar (also suit Simplex mechanical track jacks)	1,676	Round Tapered	11.8
<b>1120225</b>	3	Rail Turning Bar 47kg	1,510	Round	7.0
<b>1120149SF</b>	4	Rail Turning Bar 60kg/53kg	1,540	Round	8.0
<b>4123-04</b>	5	Claw Bar	1,524	Round Tapered	12.3
<b>5PB165030RLB</b>	6	Rail Levelling Bar/Nipping Bar	1,650	Hexagon (30mm)	11.0
<b>5CB150030</b>	7	Crowbar	1,500	Hexagon (30mm)	3.9
<b>5PB165030</b>	8	Pinch Bar	1,650	Hexagon (30mm)	4.5
<b>4123-13</b>	9	Rail Fork	1,330	-	5.9

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**HAND TOOLS**

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## **Hydraulic Tools & Equipment**



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**HYDRAULIC TOOLS & EQUIPMENT**

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## ROCK DRILLS (MADE IN JAPAN)



### OVERVIEW



**BH7E**



**BH11E**



**BH18K**



**BH20EV**



**BH23K**

**BH7E Vertical Breaker**, Maruzen's lightest breaker, delivers 2–3 times the power of similar electric models. Compact and efficient, it's perfect for confined spaces and high-rise renovations, offering six times the productivity of electric tools.

**BH11E Horizontal Breaker** is ideal for horizontal breaking, with double the impact power of comparable electric breakers. Its anti-bouncing feature ensures precise targeting and reduced operator fatigue, making it perfect for wall demolitions.

**BH18K Heavy-Duty Breaker**, the strongest in the 18kg class, delivers unmatched power and precision with anti-bouncing technology. It's ideal for roadwork, demolition, and remote sites without access to large power sources.

**BH20EV** meets CE regulations with anti-vibration handles and anti-bouncing features, ensuring safety and accuracy for heavy-duty tasks in the EU market.

**BH23K High-Performance Breaker** is one of Maruzen's most powerful models, built for road construction, maintenance, and demolition. Its hydraulic portability and anti-bouncing feature ensure reliability in demanding environments.

### SPECIFICATIONS

(AIR COMPRESSOR CAPACITY 50-80L/min)	Light Class			Medium Class		High Power Class
Model No.	<b>BH7E</b>	<b>BH11E</b>	<b>BH18K</b>	<b>BH20EV</b>	<b>BH23K</b>	
Weight without tool (kg)	7	11	18	20	24.5	
Working Pressure (MPa)	8.0 - 11.0	8.8 - 12.7	8.0 - 11.0	8.0 - 11.0	8.0 - 11.0	
Max Pressure (MPa)	21.4	20.6	20.6	21.4	20.6	
Oil Flow (l/min)	20.5	20.5	20.5	20.5	20.5	
Blow Per Minute	1920	1900	1700	1450	1000	
<b>SHANK SIZE HEX (MM)</b>	19 x 50	22 x 82	25 x 108	25 x 108	25 x 108	
Coupling	3/8"	3/8"	3/8"	3/8"	3/8"	

### BREAKER BITS & DRIVERS

Type of Attachment	Dimensional Drawings	Part No.	Suits Breakers Model No.	Shank Size HEX (mm)	Dimensions (mm)			Weight (kg)
					L	A	B	
Moil Point		<b>ZZ#3H-07111201</b>	BH7E	19x50	250	-	-	0.6
		<b>ZM-22S04025</b>	BH11E	22x83	400	-	-	1.7
		<b>MZ42-0002D</b>	BH18K/20EV/23K	25x108	400	-	-	2.0
Flat Chisel Point		<b>C-1624</b>	BH7E	19x50	250	-	-	0.6
		<b>C-1631</b>	BH11E	22x83	400	-	-	1.7
		<b>MZ42-0006D</b>	BH18K/20EV/23K	25x108	400	-	-	2.0
Asphalt Chisel (Concrete Cutter)		<b>ZZ#3H-07111202</b>	BH7E	19x50	250	60	55	0.7
		<b>ZA-005S</b>	BH11E	22x83	475	75	75	2
		<b>MZ42-0010D</b>	BH18K/20EV/23K	25x108	400	76	162	2.5
Spade		<b>C-1004-01</b>	BH23K	25x108	400	140	180	3.3
Tamping Rammer (Rod/Pad Set)		<b>ZN-003C-1005</b>	BH23K	25x108	280	180	-	9.2



**ROCK DRILLS (MADE IN JAPAN)**

**OVERVIEW**

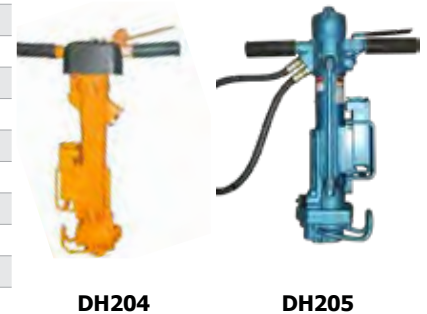
**The DH204** is a self-contained rock drill designed to eliminate the need for large air compressors, making it highly portable and efficient. It can drill up to 1m using only the drill and a power source, perfect for locations where bulky equipment is impractical. With four adjustable modes, it adapts to varying rock hardness, and its non-rotating drill rod mode ensures precise positioning. Lightweight and user-friendly, the DH204 minimizes operator fatigue and boosts productivity.

**The DH205** offers all the benefits of the DH204, with added CE certification for safety. Featuring an anti-vibration handle and safety lock lever, it ensures operator comfort and secure operation. Its self-sufficient air production and four-mode versatility make the DH205 an ideal solution for efficient and precise drilling without relying on cumbersome compressors.

Maruzen drills provide powerful, portable solutions for challenging work environments.

**SPECIFICATIONS**

Model No.	DH204	DH205
Weight (kg)	20	22
Dimensions (mm)	555×412	694×410
Working Pressure (MPa)	8.8-11.8	7.8-11.8
Oil Flow (l/min)	20-25	30
Blow per minute (bpm)	1000-1250	1000-1350
Rotation per minute (rpm)	0-600	0-600
Shank Size Hex (mm)	22×108	22×108
Max hose length (m)	1/2" x 20	1/2" x 20
Max Drilling Dia (mm)	65	65
Max Drilling Depth (m)	3	3



**UNDERWATER ANGLE GRINDER (MADE IN JAPAN)**

**OVERVIEW**

**The GH-180U** is a lightweight, compact grinder (3.8kg) ideal for metal cutting and grinding on land or underwater. It features a standard Ø180mm grinding stone, a rotation speed of 3700rpm (20 L/min), and generates no bubbles underwater, ensuring efficient ship maintenance and coastal construction tasks.

**SPECIFICATIONS**

Model No.	CH140
Dimensions (mm)	L385 × W267 × H210
Weight (kg)	4
Operating Hydraulic Pressure (MPa)	8-11
Maximum Pressure (MPa)	21.4
Required Oil Flow Rate (L/min)	20-30
No-Load Rotation Speed (rpm)	20L/min: 3700 30L/min: 5460
Maximum Torque (Nm)	20L/min: 8.2 30L/min: 9.9
Grinding Stone Dimensions (mm)	Ø125-Ø180
Thickness (mm)	3-6
Inner Diameter (mm)	Ø22
Connection Fittings	3/8"
Permissible Back Pressure (MPa)	4
Permissible Extension Hose Length (m)	Maximum: 30m (3/8 inch × 10m × 2 + 1/2 inch × 10m × 1)



**POST DRIVER (MADE IN JAPAN)**



**OVERVIEW**

**KH193 Post Driver**

The KH193 is designed to simplify the task of driving pipes into the soil, eliminating the strain of manual hammering. Its operation is straightforward: place the tool on the pipe and pull the handle lever—simple enough for a single operator to manage efficiently. A built-in special adaptor for  $\phi 48\text{mm}$  pipes reduces risks such as distortion-related jams or sand intrusion into the machine. The KH193 is among Japan's best-selling post drivers, renowned for its reliability since launch. It is ideal for installing fencing around work sites and driving posts for gardening or orchard applications.

**KH240V Versatile Post Driver**

The KH240V is a versatile post driver designed to handle a variety of pipe and stake sizes, including the commonly used  $\phi 48\text{mm}$  pipe in Japan. Equipped with an adaptable system, it can work with special covers ranging from  $\phi 80\text{mm}$  to  $\phi 120\text{mm}$ , ensuring compatibility with multiple pipe types. With its user-friendly design, the KH240V can be operated by one person and connects seamlessly to either a power unit or the PTO of an excavator. This versatility has made the KH240V a top-seller in Japan, highly regarded for its ability to handle diverse applications efficiently.

**KH800 Heavy-Duty Post Driver**

The CE-approved KH800 post driver is engineered for large-diameter pipes, such as guardrail or H steel pipes, with capacities up to  $\phi 150\text{mm}$ . It connects to Maruzen's UH070 power unit, as well as PTO systems on excavators or cranes, offering flexible operation without requiring a dedicated power unit. Featuring a special adaptor for large pipes and an optional damper for precision work, the KH800 ensures accurate and effortless operation. Its robust design makes it the go-to choice for demanding projects involving heavy-duty materials.



**SPECIFICATIONS**

Model No.	<b>KH193</b>	<b>KH240V</b>	<b>KH800</b>
Dimensions (mm)	486×273×146	629×265×154	767×359×310
Weight (kg)	20	24.5	114(not including driving tool & hook)
Working Pressure (MPa)	8-11	7.8-11.8	9.8-14.7
Max Pressure (MPa)	20.6	20.6	27.5
Flow Range (l/min)	20-22	20	20-25l/min → 500-600bpm 25-35l/min → 600-950bpm
Blow per Minute (bpm)	1920	1080	500-950
PILE DIA	50	80( $\phi 100$ , $\phi 120\text{mm}$ Option)	150
Max Hose Length (m)	3/8"×20	3/8"×10	20-25l/min 3/8"×10, 25-35l/min 1/2"×10
Coupling	3/8"	3/8"	3/8"
Driving Option Tool		Standard $\phi 48.6$ Guard Pipe $\phi 60.5$ , Guard Pipe $\phi 101$ & $114$ H angle steel up to $\phi 114$	For Guard Rail: 114.3mm, 139.8mm For H Steel: 100mmsruare

**STANDARD ACCESSORIES**

<b>KH193</b>	Standard $\phi 50\text{mm}$
<b>KH240V</b>	Standard $\phi 48.6$
<b>KH800</b>	Standard $\phi 150.0$

**OPTIONAL ACCESSORIES**

<b>KH193</b>	N/A	N/A	N/A
<b>KH240V</b>	Guard Pipe $\phi 60.5$	Guard Pipe $\phi 101$ & $114$	H steel up to $\phi 114$
<b>KH800</b>	Guard Rail: 114.3mm, 139.8mm	H Steel: 100mm, 150mm	N/A

**EARTH AUGERS (MADE IN JAPAN)**



**OVERVIEW**

**AY01H Horizontal Drilling Auger**

The AY01H is engineered for safe and efficient horizontal drilling. With its high torque capabilities, it delivers powerful drilling performance. Equipped with a sleigh mechanism, the auger slides forward smoothly for seamless operation. This tool is user-friendly, requiring only one operator to control both forward and reverse rotations using a simple handle. Its waterproof hydraulic design ensures reliable performance even in rainy conditions, making it a robust choice for various drilling tasks.

**OH01 Handheld Soil Auger**

The OH01 handheld auger is crafted for safe and efficient soil drilling. Its high-torque design enables powerful performance, while an optional shock absorber minimizes operator fatigue by reducing torque impact. Designed for ease of use, the OH01 allows single-operator control of forward and reverse rotations via a convenient handle. The waterproof hydraulic system ensures the tool operates effectively in wet or muddy conditions, making it ideal for challenging environments.

**SPECIFICATIONS**

Model No.	OH01	AY01H
Overall Dimensions (mm)	440x584x272	274x343x515
Weight (kg)	14	15
Max Pressure (MPa)	13.7	13.7
Oil Flow (L/min)	9.5-25	9.5-25
Max Drilling torque (Nm)	88	88
Rotation (rpm)	300 (At 25L/min.)	300 (At 25L/min.)
Coupling	3/8"	3/8"
Auger Diameters (mm)	φ50-φ350	φ50-φ300



OH01

AY01H

**OPTIONAL ACCESSORIES**

Code	Description	Size
MH03Z443A	Snap-on Auger for OH01, AY01H	φ50X500 L
MH03Z445A	Snap-on Auger for OH01, AY01H	φ75X500 L
MH03D001-500L	Bolt type Auger for OH01, AY01H	φ100X500 L
MH03D011A0	Bolt type Auger for OH01, AY01H	φ150X500 L
MH03D012A0	Bolt type Auger for OH01, AY01H	φ200X500 L
MH03D013A0	Bolt type Auger for OH01, AY01H	φ250X500 L
MH03Z442A	Snap-on Auger for OH01, AY01H	φ50X900 L
MH03Z444A	Snap-on Auger for OH01, AY01H	φ75X900 L
MH5-MH03D001	Bolt type Auger for OH01, AY01H	φ100X900 L
MH5-MH03D002	Bolt type Auger for OH01, AY01H	φ150X900 L
MH5-MH03D003	Bolt type Auger for OH01, AY01H	φ200X900 L
MH5-MH03D004	Bolt type Auger for OH01, AY01H	φ250X900 L
MH5-MH03D005	Bolt type Auger for OH01, AY01H	φ300X900 L
MH5-MH03D006	Bolt type Auger for OH01, AY01H	φ350X900 L
MH5-MH03D101	Extension (bolt type) for OH01, AY01H	φ100X900 L
MH5-MH03D102	Extension (bolt type) for OH01, AY01H	φ150X900 L
MH5-MH03D103	Extension (bolt type) for OH01, AY01H	φ200X900 L
MH5-MH03D104	Extension (bolt type) for OH01, AY01H	φ250X900 L
MH5-MH03D105	Extension (bolt type) for OH01, AY01H	φ300X900 L
MH5-MH03D106	Extension (bolt type) for OH01, AY01H	φ350X900 L
MH03D016A0	Extension (bolt type) for OH01, AY01H	φ250X500 L
MH03Y415B0	Extension (snap-on type) for OH01, AY01H	φ50X900 L
MH03Y410B0	Extension (snap-on type) for OH01, AY01H	φ75X900 L
MH03Y414B0	Extension (snap-on type) for OH01, AY01H	φ50X500 L
MH03Y409B0	Extension (snap-on type) for OH01, AY01H	φ75X500 L



**LONG REACH POLE CHAIN SAW (MADE IN JAPAN)**

**OVERVIEW**

The **PSH190** and **PSH225** are a professional-grade pole saw designed for safe and efficient trimming, especially around electrical cables. Meeting OSHA 1910.269 safety regulations, it features a safety lock lever to prevent accidental movement. Powered by Maruzen's original motor for high torque and smooth cutting, it can be connected to a hydraulic power unit or PTO on an aerial work platform. Automatic oil supply ensures smooth operation, and its easy maintenance design makes it a reliable choice for professionals.

**SPECIFICATIONS**

Model No.	PSH190	PSH225
length (mm)	1928 (75")	2273 (88.5")
Weight (kg)	4.6	4.8
Cutting Capacity (mm)	330 (13")	330 (13")
Operating Pressure (MPa)	7 – 11	7 – 11
Allowable Back Pressure (MPa)	4	4
Oil Flow (l/min)	20 – 30	20 – 30
R.P.M.	5800 rpm (20L/min) 8400 rpm (30L/min)	5800 rpm (20L/min) 8400 rpm (30L/min)
Coupling	3/8"	3/8"
Extension Hose (m)	3/8"×20	3/8"×20
Saw Chain (mm)	Pitch : 8.26 (0.325") Gauge : 1.47 (0.058")	Pitch : 8.26 (0.325") Gauge : 1.47 (0.058")
Guide Bar (mm)	330 (13")	330 (13")
Others	Hydraulic system selector valve, Automatic oil valve	Hydraulic system selector valve, Automatic oil valve





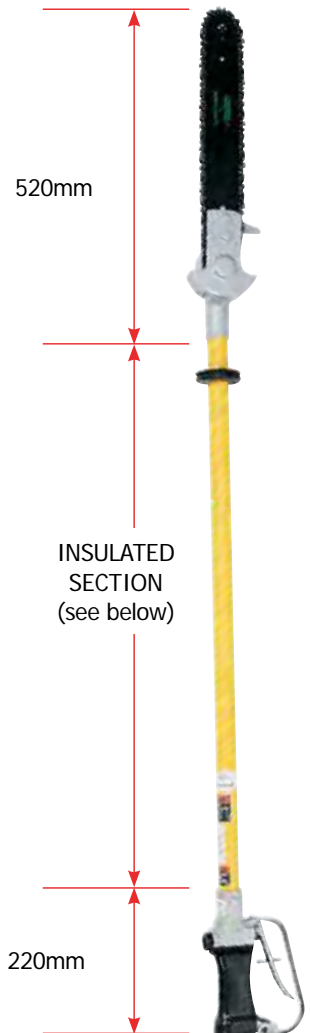
**LONG REACH POLE CHAIN SAWS (MADE IN USA)**



**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 fibreglass extension tubes, tested to meet OSHA Regulation 1910.269 with fibreglass 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.
- Includes flush face couplers "FF"

Foam Filled Tube



**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	1.90 (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



HYDRAULIC TOOLS & EQUIPMENT

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**CONCRETE & ASPHALT SAW/CUTTER (MADE IN JAPAN)**



**OVERVIEW**

The **CH140**, an upgraded model of the CH130, offers lightweight design and high torque, reducing operator fatigue during vertical or horizontal use. Ideal for pile head treatment, it features Maruzen's original motor for enhanced performance. Perfect for those seeking a powerful, portable alternative to heavier engine or electric cutters.

**SPECIFICATIONS**

Model No.	<b>CH140</b>
Dimensions (mm)	655×200×377
Weight (kg)	7
Max Pressure (MPa)	17.2
Allowable Back Pressure (MPa)	4
Rated Oil Flow (ℓ/min)	20-30
Max Oil Flow (ℓ/min)	30
R.P.M.	3000(at 30 ℓ/min)
Torque (Nm)	13Nm (20 L/min) 21Nm (30 L/min)
Standard Blade	Dry type silent diamond blade 14" (O.D. φ355mm Shaft 30.5mm)
Cutting depth (mm)	138
Coupling	3/8"
Extension Hose (m)	3/8" Couplers x 10m



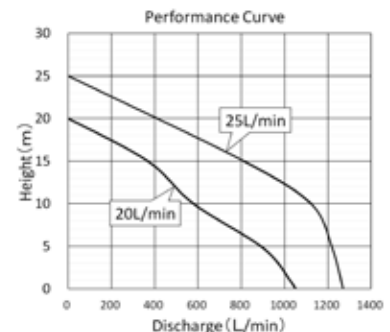
**SUBMERSIBLE PUMP (MADE IN JAPAN)**

**OVERVIEW**

The **PH300** is a lightweight, CE-approved water pump with a 3-inch discharge port, capable of pumping up to 20m. Compact and portable, it's perfect for vans or excavators, ideal for water and revetment work. Despite its size, it delivers powerful and efficient performance for demanding tasks.

**SPECIFICATIONS**

Model No.	<b>PH300</b>
Dimensions (mm)	430×275×190
Weight (kg)	12.4
Working Pressure (MPa)	9.8
Oil Flow (ℓ/min)	20.5
Max Oil Flow (ℓ/min)	25
Max Discharge (lpm)	1050 At 20.5L 1270 At 25.0L
Discharge Diameter (mm)	φ75 (3")
Max Pumping (ℓ/min)	780 (At 20.5L/min)
Max Lifting Height (m)	15 (At 20.5L/min)
Coupling	3/8"



**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)



**NON-CONDUCTIVE**

**B098 (Threaded Ends – No Couplings)**



**B098/FF (Threaded ends with Couplings Attached)**

**REFER TO SF ELECTRICAL CATALOGUE FOR HOSE BAG**

\* OTHER LENGTHS SPECIALLY MADE TO ORDER

**TWIN LINE BRAIDED HYDRAULIC HOSE WITH STEEL BRAIDING - CONDUCTIVE**

Hose construction has an 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 (Hose to standard SAE 100R1, Type AT). Supplied with Flush Face Couplings, Male & Female Each End (Male # FF372-6FP & Female # FF371-6FP).

Model No.	Length (m)*
421-802-B12NM/FF	2
421-803-B12NM/FF	3
421-805-B12NM/FF	5
421-806-B12NM/FF	6
421-810-B12NM/FF	10
421-815-B12NM/FF	15
421-820-B12NM/FF	20
421-825-B12NM/FF	25
421-830-B12NM/FF	30

**STANDARD STEEL WIRE REINFORCED**



**REFER TO SF ELECTRICAL CATALOGUE FOR HOSE BAG**

Hose has 1/2" NPT fittings and supplied with flush face couplings.

\* Other lengths made to order.

HOSES - HIGH PRESSURE



**SPECIALISED FORCE OFFER A WIDE RANGE AND LENGTHS OF HIGH & LOW PRESSURE HYDRAULIC HOSE**

Please contact you nearest Specialised Force Branch for further information

Model No.	Brand	Type	(Size - Id (mm))	OD (mm)	Working Pressure (Bar)	Working Pressure (Psi)	Temp Range	Weight
<b>HPS-06R"</b>	Durapac	RED	¼ 6.6	12.7	700	10,000	-40° to 100°	180g/m
<b>HPS-06B"</b>	Durapac	BLACK	¼ 6.6	12.7	700	10,000	-40° to 100°	180g/m
<b>HPS-06T"</b>	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"								
<b>HP8-403-B38NM-CCN*</b>	Parker 3m	ORANGE	1/4 6.0	15.0	700	10,000	-40° to 100°	160gm
<b>HP8-405-B38NM-CCN*</b>	Parker 5m	ORANGE	1/4 6.0	15.0	700	10,000	-40° to 100°	160gm
<b>B098</b>	NRP Twin	ORANGE	3/8 10.0	19.0	155	2250	-40° to 93°	600g/m

\* Fitted with CEJN couplings & dust caps (10-116-1429 & 10-115-6404) suitable for POWAQUIP Model No. BP1108A battery pump

"PARKER" HIGH PRESSURE COUPLINGS

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

Refer to SF Electrical Catalogue for additional couplings

**SPECIALISED FORCE 50 - 200 TONNE CUSTOMISED HYDRAULIC DRAFT PACK JIG**

**OVERVIEW**

The Specialised Force Customised Draft Pack Jig provides innovative, flexible solutions for a wide range of locomotive and wagon applications, including coal, ore, and freight industries.

**FEATURES**

- Fully customised to suit various coupling profiles and types
- Supports different DURAPAC hydraulic cylinders
- Constructed from high-strength, lightweight aluminium alloy for easy handling
- Built-in handle for enhanced portability
- Designed under 20kg for effortless manual handling

**FEATURED APPLICATION**

The 50-Tonne Draft Pack Jig is specifically designed to accommodate the DURAPAC RG-502/RT 50-Ton Cylinder. It has been successfully used on coal and iron ore locomotives, as well as wagons equipped with Bradken couplings, yokes, and Miner Crown SE draft gear.

**CUSTOMER FEEDBACK**

The Draft Pack Jig achieved 12mm of compression effortlessly in a single push—more than sufficient to separate the draft gear from the yoke. The cylinder fit perfectly with no clearance issues and had ample tonnage capacity remaining.



Assembled JIG c/w DURAPAC RG-502/RT 50Ton Cylinder



JIG in application



**BRADKEN** BRADKEN Fixed Yoke (type F)



**CROWN SE**  
 Crown SE draft gear



Coal locos and wagons complete with Bradken couplings and yokes with Miner Crown SE draft gear.

## HYDRAULIC NUT SPLITTER

### MODEL NO. DNS SERIES

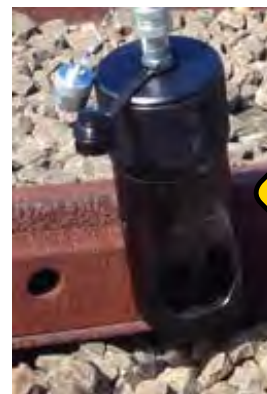
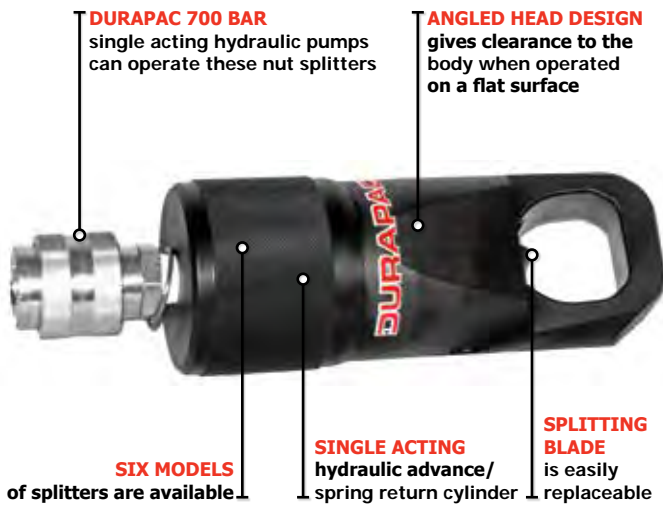
The Durapac range of Nut Splitters consists of seven models for handling difficult to remove nuts ranging from 10–75 mm A/F capacity. They are a proven performer in the railway for breaking large cast nuts on fish plates. They can also be used for heavy vehicles, mining, steel and industrial applications. DNS-Series Nut Splitters use a single acting hydraulic-advance/ spring return cylinder offering between 5-90 tons of force. All models can be driven by a 700 bar lightweight single acting hand pump or power unit. The unique angled-head design gives clearance to the body when operating on a flat surface. They are a compact design capable of splitting nuts up to hardness HRc 44. Each tool is supplied in a heavy duty moulded plastic storage case.

## DURAPAC

ENGINEERED FOR RELIABILITY



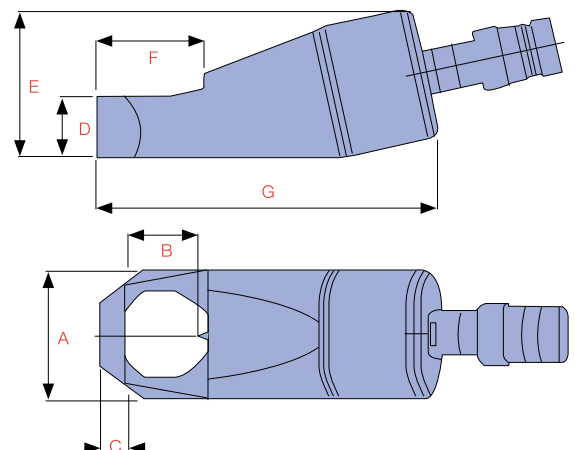
### FEATURES



### SPECIFICATIONS

Model No.	Bolt Range	Hex Nut Range (mm)	Capacity (ton)	Oil Capacity (cm <sup>3</sup> )	Dimensions (mm)			Weight (kg)	Spare Blade Model Number
					Length	Width	Height		
<b>DNS-1319</b>	M6-M12	10-19	5	13	170	40	48	1.2	DNS-1319-4
<b>DNS-1924</b>	M12-M16	19-24	10	21	191	54	62	2.0	DNS-1924-4
<b>DNS-2432</b>	M16-M22	24-32	15	58	222	64	72	3.0	DNS-2432-4
<b>DNS-3241</b>	M22-M27	32-41	20	88	244	75	88	4.4	DNS-3241-4
<b>DNS-4150</b>	M27-M33	41-50	35	153	288	94	105	8.2	DNS-4150-4
<b>DNS-5060</b>	M33-M39	50-60	50	233	318	106	128	11.8	DNS-5060-4

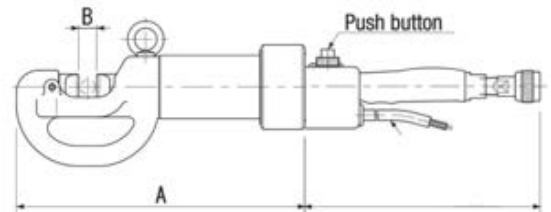
Model No.	Dimensions (mm)							
	A	B	C	D	E	F	G	
<b>DNS-1319</b>	39.8	20.9	7.0	19.0	49.7	29.0	120.0	
<b>DNS-1924</b>	53.8	25.3	10.0	25.0	62.2	40.0	146.0	
<b>DNS-2432</b>	64.0	33.6	13.0	30.0	76.5	51.8	181.0	
<b>DNS-3241</b>	77.0	42.7	16.0	36.0	87.3	64.9	205.0	
<b>DNS-4150</b>	94.0	53.8	21.1	44.7	108.0	76.0	244.0	
<b>DNS-5060</b>	106.0	60.8	24.3	54.3	125.3	92.0	289.0	



**ROD CUTTER – DROPPER LEAD CUTTER (MADE IN JAPAN)**



Ideal for cutting dropper leads in railway applications. Designed to efficiently cut mild steel, low or high carbon steel, link chains, hard alloy or non-ferrous metals rods. Material hardness should be under RC35.

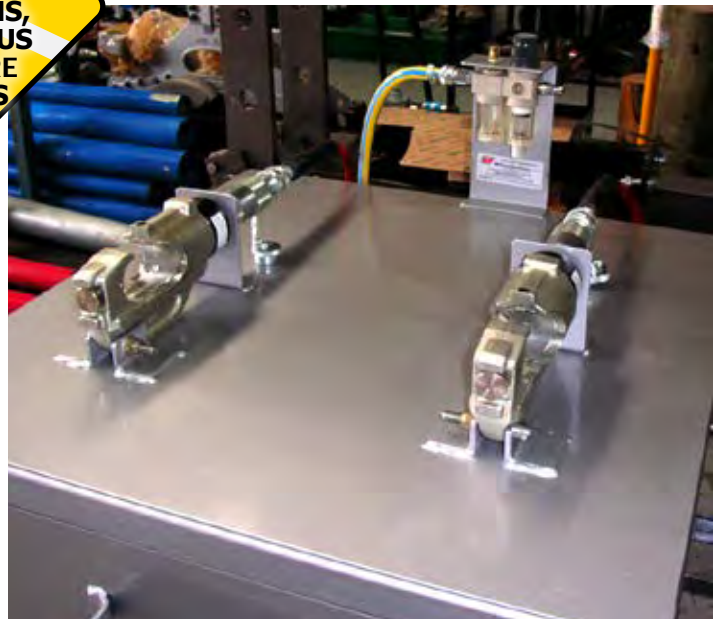
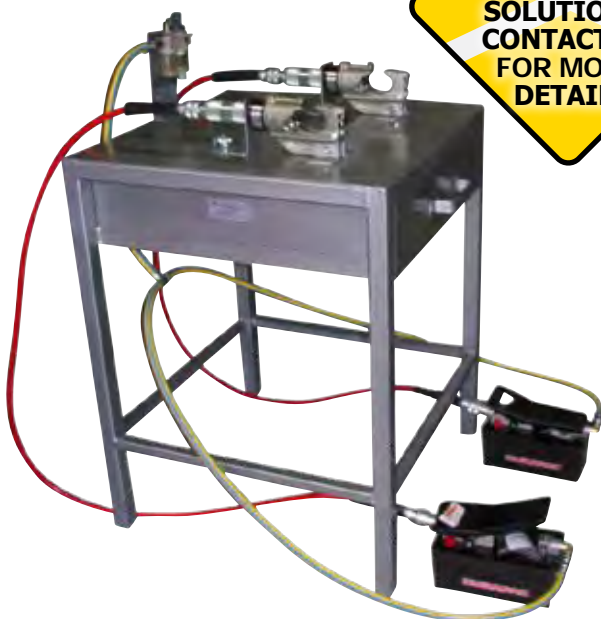


Model No	Capacity (Tonne)	Cutting Capacity @ Tensile Strength (1000N/mm <sup>2</sup> {100kgf/mm <sup>2</sup> })	Dimensions (mm)		Oil Capacity (cm <sup>3</sup> )	Weight (kg)
			A	B		
<b>RC20SW</b>	20	Max. 18 Ø	348	22	73	17.5

The above remote cutting head and crimping heads (such as an EP-431H) can be mounted to a bench for mass production of railway dropper leads.



**SF CAN PROVIDE CUSTOM SOLUTIONS, CONTACT US FOR MORE DETAILS**



**HYDRAULIC TOOLS & EQUIPMENT**

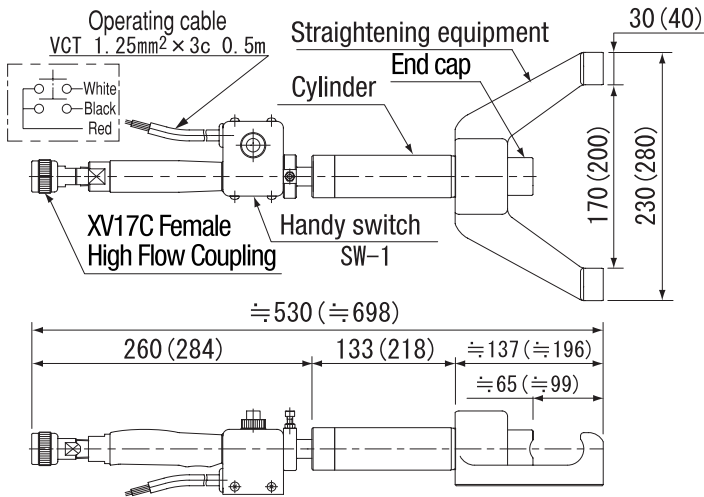
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**RS SERIES WIRE & ROD STRAIGHTENER AND BENDER,  
HYDRAULIC (MADE IN JAPAN)**

Used for straightening or bending various types of coiled metal such as rod, wire, etc. The "SW" in the part number means units are supplied with a push button switch to operate a solenoid valve or electric motor on/off (dump valve type pump). Optionally a "HV" series is also available with handy 3 way valve). A hydraulic pump is required to operate.



Model No	Output (kN)	Operating Pressure (bar)	Straightening Capacity		Cylinder Used	Straightening Equipment	End Cap	Wt (kg)
			Tensile Strength (500 N/mm <sup>2</sup> )	Tensile Strength (1,000 N/mm <sup>2</sup> )				
<b>RS4SW</b>	40	700	25 Ø	20 Ø	S04-70	R-403	R-402	5.0
<b>RS10BSW</b>	100	700	36 Ø	28 Ø	S1-120	R-331	R-332	12.0





**DIESEL DRIVEN RAILWAY POWER UNITS**



**THE PDM3054-RAIL DIESEL DRIVEN RAILWAY POWER UNIT IS SUITABLE FOR heavy duty APPLICATIONS IN THE FIELD and can deliver a minimum flow of 2.5 Lpm at 700 bar pressure.**

It is specifically designed to operate rail tensors and weld shears commonly used in the railway industry. It features a selector valve to choose which tool to operate and individual directional control valves for each tool. Tools can be single or double acting and each tool may have a different maximum operating pressure.

**FEATURES**

- MOTOR SIZE - 3.4 kW
- FLOW - 2.5 Lpm
- Maximum Operating Pressure - 700 bar



**HYDRAULIC TOOLS & EQUIPMENT**

choose between tensor or weld shear

Model Number	Motor Type	kW	rpm	Flow Rate (Lpm) @ 700 bar	Maximum Pressure Rating (bar)*	Valve Types (3/8"-NPTF Ports)	Usable Oil Capacity (L)	Approx. Dry Weight (kg)	Approx. Dimensions (mm)
<b>PDM3054-RAIL</b>	Diesel	3.4	2,200	2.5	700	Selector Shear** Tension**	50	190	450 W x 750 L x 650 H

\* Specify tool working pressure at placement of order.

\*\* Specify single or double acting tools at placement of order.

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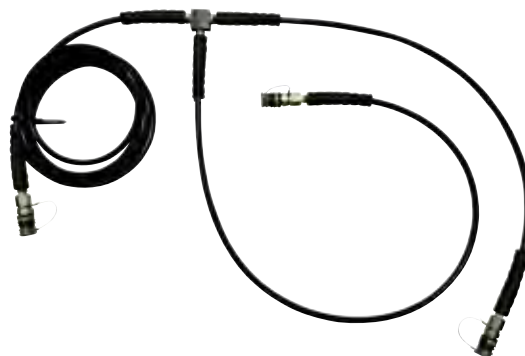
**HYDRAULIC RAIL TENSOR HOSES – HIGH PRESSURE**

**MODEL NO. 0412-5M-GEI SERIES TENSOR HOSE**

High pressure high quality hydraulic hose with 4:1 safety factor. Hoses are permanently marked with model number and working pressure - 10,000PSI.

**FEATURES**

- “CEJN SNAP” models quick release to avoid air locks in line
- “CEJN SNAP” models non-drip and easy to clean couplers



**SPECIFICATIONS**

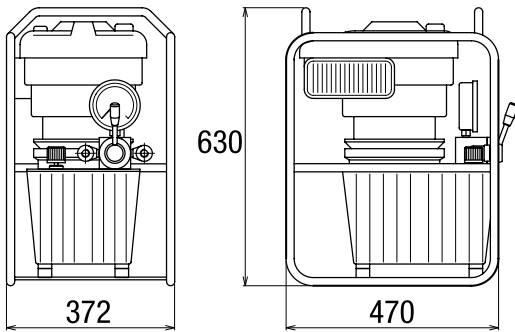
Model No.	Description	Coupler	Length (m)
<b>0412-5M-GEI-SCREW-F</b>	0412 GEISMAR HOSE SET FEMALE RP1A	Screw Parker	5
<b>0412-5M-GEI-SCREW-M</b>	0412 GEISMAR HOSE SET MALE RP1B	Screw Parker	5
<b>0412-5M-GEI-SNAP-F</b>	0412 HOSE SET FEMALE CEJN	CEJN Snap	5
<b>0412-5M-GEI-SNAP-M</b>	0412 HOSE SET MALE CEJN	CEJN Snap	5

Refer to the next page for powered pump or contact us for a manual hand pump

**MODEL NO. PPM2014 HYDRAULIC HIGH PRESSURE  
 PETROL PUMP**



This powerful 4 stroke high pressure hydraulic pump is equipped with a protection cage that makes it easier to move and lift, protecting it in construction sites. With a large 10 litre aluminium reservoir it is capable of use with a wide range of equipment. Reduced maintenance and designed to last.



**FEATURES**

- Powerful Honda GXV 2.6 KW 4 stroke petrol engine
- Aluminium 10 litre oil reservoir
- Rugged tubular protection cage
- 4 way 3 position double acting manual directional valve with internal check valve
- Fast 4.5 litre minute first stage oil flow and 1.8 litre minute at 700 bar (10,000PSI)



Model No	Motor Type/ Brand	Hyd Pressure (bar)	Hyd Reservoir Capacity (L)	Motor Fuel	Motor Power (kW/HP)	RPM	Dimensions Outside Frame (mm) LxWxH	Weight inc oil & frame (kg)
<b>PPM2014</b>	4-Stroke / Honda	700 (10,000PSI)	10	Petrol	2.6 / 3.5	3,000	470x372x630	47

**Optional Accessories** - PG63 Pressure Gauge, 199422500 Rubber Gauge Protector & FGA18 Gauge Adaptor

HYDRAULIC TOOLS & EQUIPMENT




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**BATTERY HYDRAULIC PUMPS**

*intercable* **DURAPAC**

**MODEL NO. VARIOUS**

A selection of quality high pressure hydraulic battery powered pumps, each with its own unique features and benefits.

Picture			
Model No	<b>BP114</b>	<b>BP150A</b>	<b>CP700EC(BB)</b>
Features	Lightweight Powerful & Fast Advanced Electronics Internal Battery	Lightweight Powerful & Fast Advanced Electronics Internal Battery	Lightweight Advanced Electronics
Details	Battery Save Mode : switches off after 10 minutes last cycle Dual Function Switch : dump or hold	Battery Save Mode : switches off after 10 minutes last cycle Dual Function Switch : dump or hold	Adjustable Retraction Mode: increases battery life
Pressure (bar)	700	700	700
Useable Oil (L)	1.0	1.0	0.75
Control	Corded Pendant 3.0m	Corded Pendant 3.0m	Corded Pendant 1.5m
Power	Internally fitted battery 50.4 VDC, 7830 mAh, which is sufficient for a full day.	Internally fitted battery 50.4 VDC, 7830 mAh, which is sufficient for a full day.	Removable Milwaukee 18VDC Battery 4.0Ah Lithium-Ion
Recharge	230VAC Power Cord Included – Works from Mains Power	230VAC Power Cord Included – Works from Mains Power	230VAC Battery Charging Base Included
Accessories Included	230VAC Cord Hand Pendant Control Shoulder Strap	230VAC Cord Hand Pendant Control Shoulder Strap	1.5m Non-Conductive Hose 2 Batteries 230VAC Charging Base Hand Pendant Control Carry Bag
Standard Coupling	CEJN Snap Female	CEJN Snap Female	CEJN Snap Female
Dimensions LxWxH (mm)	185 x 250 x 270 mm	185 x 250 x 270 mm	205 x 290 x 190
Weight Inc Battery (kg)	7.5	9	4.6









**Refer to pages 81-82 for hoses and 176 for remote heads**

**HIGH PRESSURE HYDRAULIC ELECTRIC PUMPS**

**MODEL NO. VARIOUS**

A selection of quality high pressure hydraulic electric pumps, each with its own unique features and benefits.

Picture			
			
Model No.	<b>SMP-30</b>	<b>DSPN-12AS</b>	<b>SPES3502AR</b>
Features	<ul style="list-style-type: none"> <li>- Durable with Aluminium Tank</li> <li>- "Dead-Man" Switch</li> <li>- Adjustable External Pressure Switch</li> </ul>	<ul style="list-style-type: none"> <li>- Compact Heavy Duty Design</li> <li>- Solenoid Operated Pressure Hold/Retract</li> <li>- Ideal for Bending</li> <li>- Inching Function</li> </ul>	<ul style="list-style-type: none"> <li>- Lightweight Auto-Retract (pop-off internal valve)</li> <li>- Internal Bladder Allows Angled Use</li> </ul>
Pressure (bar)	700	700	700
Tank Size (L)	2.0	1.2	2.0
Control (All LV Stepped Down)	3m Hand Pendant	1.8m Hand Pendant	2.5m Hand Pendant
Power	230VAC	230VAC	230VAC
Accessories Included	3m Hand Pendant	1.8m Hand Pendant	2.5m Hand Pendant
Optional Accessories	<ul style="list-style-type: none"> <li>- SMP-40AR-67B More Powerful &amp; Bigger Tank Version</li> <li>- Roll Frame</li> <li>- Foot Switch SF1</li> <li>- Load Holding Version SCH-13B Check Valve &amp; Bypass</li> </ul>	<ul style="list-style-type: none"> <li>- Foot Switch SFVA-1-2</li> </ul>	<ul style="list-style-type: none"> <li>- Optional Solenoid Configurations (contact us for more information)</li> </ul>
Dimensions LxWxH (mm)	200 x 170 x 393	265 x 145 x 275	400 x 140 x 140
Weight (kg)	14.5	7.5	8.4

**HYDRAULIC TOOLS & EQUIPMENT**

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**Refer to pages 81-82 for hoses and 176 for remote heads**



**LOW PRESSURE PETROL HYDRAULIC PUMPS**

**MODEL NO. VARIOUS**

A selection of quality low pressure petrol hydraulic pumps, each with its own unique features and benefits.



**UH070**

The UH070 is a lightweight, portable power source driven by a high-quality Honda 7HP engine. Compact enough for one person to load into a van, it's ideal for remote areas and supports various Maruzen tools. A best-seller in over 10 countries.



**UH130**

The UH130 is optimized for high-torque tools like drills, cutters, and chainsaws. Featuring adjustable oil flow (20–30 L/min) and durable wheels for easy transport, it's perfect for demanding tasks requiring power and mobility.

**SPECIFICATIONS**

Model No.	UH070	UH130
Size (mm)	591×480×550	770×590×750
Weight (kg)	45	88
Max Pressure (MPa)	11.7	13.7
Oil Flow (l/min)	20.5	20, 25 & 30 (3-modes)
Engine	Honda GX200	Honda GX390
Fuel type	Petrol	Petrol
Fuel Tank Capacity (l)	3.1	6.1
Reservoir Capacity (l)	4	8
Engine Starting	Recoil	Electric
Coupling	3/8"	3/8"
Standard Features	Air-cooled oil cooler, Folding handle	Air-cooled oil cooler

**LOW PRESSURE PETROL OR DIESEL HYDRAULIC PUMPS (MADE IN DENMARK)**



**MODEL NO. VARIOUS**

A selection of quality low pressure petrol and diesel hydraulic pumps, each with its own unique features and benefits.



HPP13D FLEX	HPP23V FLEX	HPP26D MULTIFLEX	HPP27V MULTIFLEX
The HPP13D is perfect for running any 20 or 30-lpm tool in tunnels or other areas where gasoline fuel or fumes are not allowed. The modern single-cylinder diesel engine offers low fuel consumption and maximum power to operate a breaker, rock drill, core drill, cut-off saw, or submersible pump. The strong and well-designed HYCON steel frame ensures excellent protection and easy service access to all vital parts.	The HPP23V FLEX runs tools from 20-46 lpm with its 23 hp B&S Vanguard engine, ideal for large saws or wall saws needing 46 lpm. The unique HYCON ring cooler ensures superior cooling, extending engine life. Its durable steel frame offers excellent protection and is easy to clean using a high-pressure washer, making it a robust choice for demanding work conditions.	The HPP26D Multiflex is the most powerful diesel-driven pack in the HYCON range. Its 26 hp Kohler engine delivers single or dual flow outputs for continuous, heavy-duty tasks. Built for demanding tools like breakers or saws, it is perfect for running two tools simultaneously. The strong design ensures durability and long service hours in areas where petrol engines are restricted.	The HPP27VMF is HYCON's most powerful petrol-driven pack, powered by a 27 hp Briggs & Stratton Vanguard engine. It delivers single or dual flow outputs to handle heavy-duty tools effortlessly. Designed for continuous tasks, it allows two tools, like an 18" saw and a breaker, to run simultaneously. Its robust build ensures durability under tough conditions.

**SPECIFICATIONS**

Item No.	HPP13D FLEX	HPP23V FLEX	HPP26D MULTIFLEX	HPP27V MULTIFLEX
Oil flow single port (LPM)	20 - 30	20 - 46	20 - 60	20 - 60
Oil flow dual port (LPM)	-	-	2 x 30	2 x 30
Working pressure (bar/psi)	120	120 / 1740	120 / 1750	120 / 1740
Max pressure (bar/psi)	150	160 / 2320	160 / 2320	160 / 2320
Oil Capacity (L)	11	11	15	15
Fuel type	Diesel	Petrol	Diesel	Petrol
Power (hp)	10	23	25.2	27
Engine	KOHLER KD15-440	Vanguard 23	KOHLER KDW1003	Vanguard 27
Starter	Recoil / Electric	Recoil / Electric	Electric	Electric
Fuel tank capacity (l)	4.7	8.5	45	45
Dimensions L x W x H (mm)	860 x 610 x 688	860 x 610 x 688	1040 x 740 x 850	1040 x 740 x 850
Weight (kg)	114	108	230	170

**HYDRAULIC TOOLS & EQUIPMENT**

**specialisedforce.com.au**

**100 TON RAILROAD AXLE JOURNAL ROLLER BEARING PUSH/PULLER**



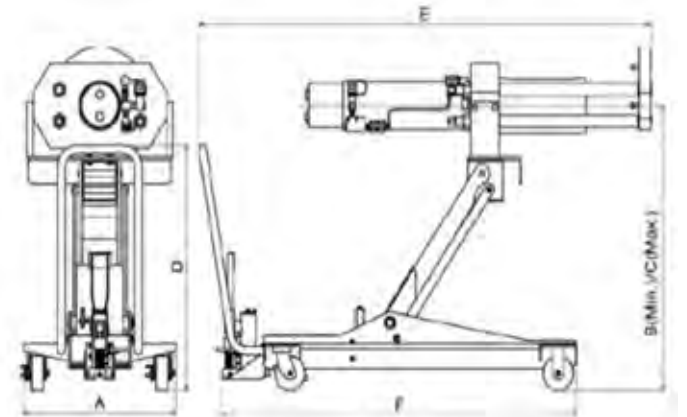
**FEATURES**

- Remove or install railroad axle journal tapered roller bearings easily and efficiently
- Specifically designed for use with major bearing brands
- Portable design for convenient positioning and storage
- Accessory sets available for all common bearing classes
- Supplied with 230VAC electric pump



**SPECIFICATIONS**

Model No.	<b>DRP-100E</b>
Stroke (mm)	392
Capacity (Ton) Pull	100
Capacity (Ton) Push	68
A (mm)	652
B (mm)	370
C (mm)	1047
D (mm)	900
E (mm)	1940-2209
F (mm)	1530
Weight (kg)	455



**CLASS & SIZE OF BEARING ASSEMBLY- TBU & SP "METRIC ACCESSORIES"**

Accessory Description	120	130	140	150
Pulling Shoe Insert Adaptor	*	*	*	*
Guide Tube & Cap Screw Assembly	*	*	*	*
Cap Screw	**	**	**	**
Guide Tube Adapter	*	*	*	*
Installing Tube Adapter Ring	*	*	*	*



This accessory cha

**CLASS & SIZE OF BEARING ASSEMBLY TO BE SERVICED**

Accessory Description	Class	B	C	D	E	EE	EE	F	G	G	GG
	Size (mm)	108x203	127x229	140x254	152x279	140 Axle	152 Axle	165x305	178x305	165 Axle	165 Axle
Pulling Shoe		Included as part of basic machine – do not order							*	*	*
Pulling Shoe Insert Adaptor	*	*	*	*	*	*	*	*	*	*	*
Guide Tube & Cap Screw Assembly	*	*	*	*	*	*	*	*	*	*	*
Cap Screw**	*	*	*	*	*	*	*	*	*	*	*
Guide Tube Adapter	*	*	*	*	*	*	*	*	*	*	*
Installing Tube		Included as part of basic machine – do not order							*	*	*
Installing Tube Adapter Ring	*	*	*	*	*	*	*	*	*	*	*

\* Included in standard accessory kit. \*\*Screws are supplied with the guide tube and should be ordered as replacements only.

**Note:** Adaptors listed above are for servicing the following roller bearing assemblies: Brenco "Crown Taper"; New Departure-Hyatt "Hyroll Taper"; SKF "Expiditer".



**50 TON HYDRAULIC PULLER**



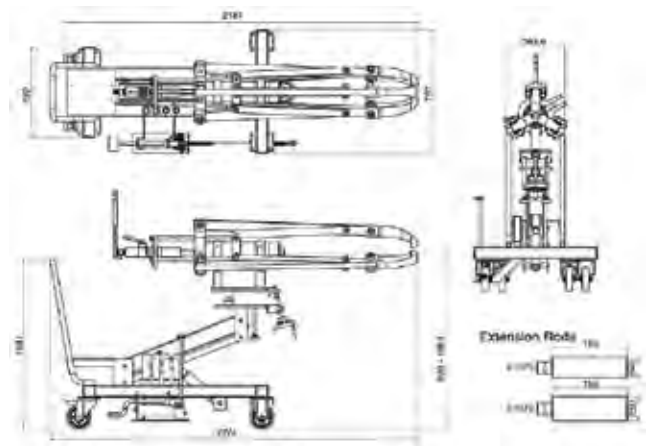
**FEATURES**

- Foot-operated hydraulic lifting system
- Flow metering system provides constant lowering speed
- Double-acting hydraulic system for holding, opening & closing jaws provides safe and secure grip at all times
- Self-centring design keeps puller jaws clamped evenly on the work piece
- Easy jaw head adjusting system prevents puller jaws from sliding
- Puller can be assembled in 2 or 3 jaw configuration
- Castors provide easy cart movement
- Includes 230VAC electric pump & three extensions



**SPECIFICATIONS**

Model No.	<b>DHP-50</b>
Stroke (mm)	330
Capacity (Ton)	50
Max Spread (mm)	1250
Max Reach (mm)	900
Weight (kg)	391



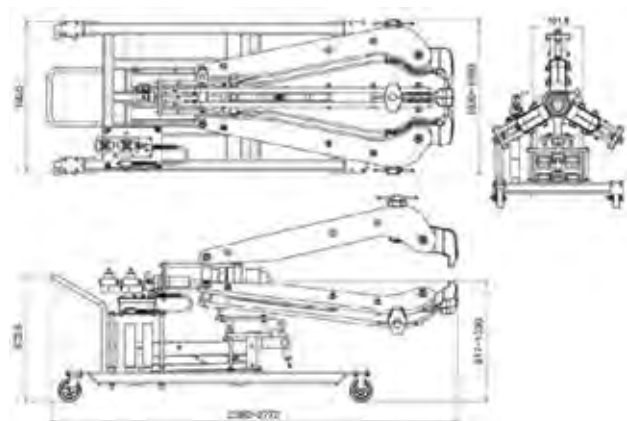
**100 TON HYDRAULIC PULLER**

**FEATURES**

- Flow metering system provides constant lowering speed
- Double-acting hydraulic system for holding, opening & closing jaws; provides safe and secure grip at all times
- Single-acting, spring return, 100 Ton capacity cylinder
- Self-centring design keeps puller jaws clamped evenly on the work piece
- Easy jaw head adjusting system prevents puller jaws from sliding
- Puller can be assembled in 2 or 3 jaw configuration
- Puller can be adjusted 5 degrees up or down of puller centreline for precise positioning
- Castors provide easy cart movement
- Includes electric pump – 230VAC single phase or 380VAC three phase options & four extensions



Model No.	<b>DHP-100</b>
Stroke (mm)	270
Capacity (Ton)	100
Min Spread (mm)	300
Max Spread (mm)	1500
Reach at Min Spread (mm)	1047
Reach at Max Spread (mm)	900
Weight (kg)	1083



HYDRAULIC TOOLS & EQUIPMENT

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**ALDON**  
CO



# Locomotives & Rail Car Stopping Devices

DERAIL



CHOCK

CHOCK



DERAIL





**LOCOMOTIVES & RAIL CAR STOPPING DEVICES**

**100-123**

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**DERAILERS (MADE IN USA)**

Derails are emergency stopping devices for rail cars and locomotives. OSHA, FRA, and DOT regulations require derail protection for all active rail sidings



**How Derails Work Derails help prevent:**

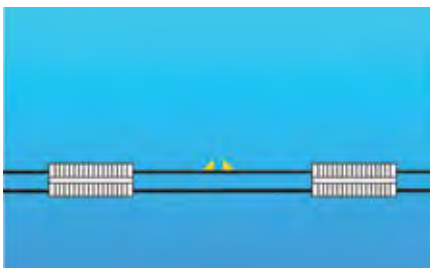
The derail lifts the flange of the car wheel and drops it clear of the rail. At the same time the wheel on the other rail falls down between the rails. The derailed wheels bite into the soft surface of sleepers and ballast and slide to a stop. Depending on speed, a derailed car or locomotive may travel some distance before stopping.

**Effective derailing depends on**

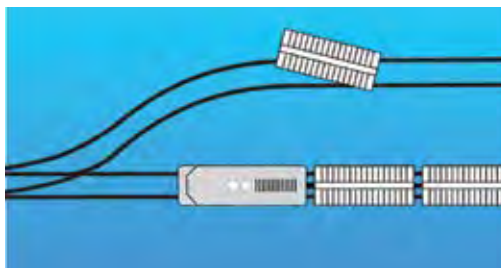
- Derail properly sized, installed, and maintained
- Cars and locomotives moving at slow switching speeds (less than 5 mph).
- Flat track -- no grades
- Track open to the sleepers and ballast
- In curved track, derail installed on outer rail, not inner rail
- Ample open space along track for derailed car or locomotive to come to a stop



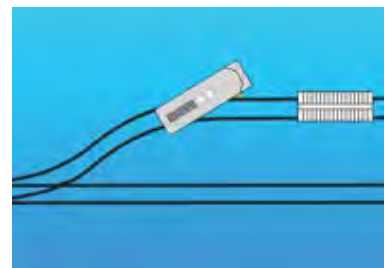
**DERAILS HELP PREVENT**



One car rolling into another



Unauthorized locomotive coupling to stationary car



A loose car rolling out onto the mainline



**DERAILERS (MADE IN USA)**

Derails Control Movement - Protect your spur track from unauthorised locomotive entry



**Hinged Derails**

Spiked to two sleepers. Derails can be flipped on or off rail by hand or by using lifting lever

**SUITS RAIL**  
36-64kg



**Retractable Hinged Derails**

Derails slide on and off rail with 13kg handle pull

**SUITS RAIL**  
40-64kg



**SaberTooth™ Portable Derails**

Tool-free installation. Timber sleeper-biting anchor hook

**SUITS RAIL**  
1-way: 40-64kg 2-way: 45-61kg

**IMPORTANT INFORMATION ON DERAILS**

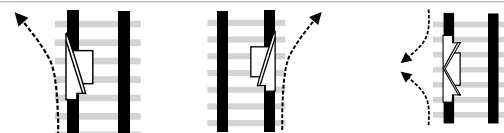
**Type of Rail?**



All three types of derails are designed to be used on exposed rail (open to the sleepers).

**DO NOT USE DERAILS ON FLUSH RAIL** (rail that is encased in pavement)  
**DO NOT INSTALL DERAIL ON CONCRETE OR RESIN SLEEPERS**

**Derail Throw Direction?**



**1-way left      1-way right      2-way**

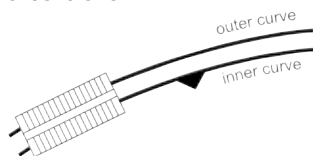
Note that direction of throw is from the viewpoint of the oncoming locomotive or rail car

**Type of Sleepers - Wood or Steel?** Hinged derails can be installed directly on wooden sleepers. Steel sleepers require adapter plate (see page 103). Retractable and portable derails must be installed on wooden sleepers only.

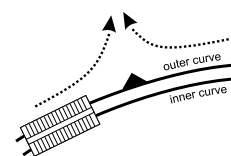
**1-way or 2-way Derail?** Consider the type of rail movement you have on your spur tracks. The primary purpose of the derail is to prevent unauthorised locomotive entry into your siding. A secondary purpose is to prevent a freight car on your siding from rolling out onto the main line.

**One-way Derails** can be used with 4-axle locomotives, 6-axle locomotives and all freight cars.

**Two-way Freight Car Derails** can be used with Trackmobiles, 4-axle locomotives and all freight cars. Do not use if 6-axle locomotives operate on your siding. The deflection angle is too sharp to handle the longer wheel base. Note that railroads are replacing older 4-axle locomotives with bigger 6-axle units for switching industrial spur tracks. Check with your local railroad to determine what size of locomotive is likely to be switching cars on your tracks. **Two-way Locomotive Derails** can be used with 4-axle or 6-axle locomotives, as well as all freight cars: **ALDON have successfully tested their hinged and portable derails at 9.6km/hr. Higher speeds may cause a failure to derail.**



**CORRECT**



**AVOID IF POSSIBLE**

**Curved Track** In curved track, for more assured derailing, always install the derail on the outer curved rail. Wheels naturally hug the outer rail as they round into the curve, and thus are more likely to climb over the rail and into the ballast. Conversely, wheels tend to draw away from the inner curved rail on entering the curve, thus reducing the likelihood that a derail installed on the inner rail will carry the wheel over the rail. In certain situations, due to lack of open ground off-track, it may be necessary to install the derail on the inner curved rail. If so, a Side Kick Derail Booster (see page 103) should be installed on the opposite rail.

**Rail Size** Portable derails fit rail sizes, 44.6-69.9kg. Hinged and retractable derails are made in four standard sizes, each of which fits a specific range of rail sizes. Request our derail sizing form to determine which size derail you need. You will need to measure the height of the rail. See page 105 for guidance.

LOCOMOTIVES & RAIL CAR STOPPING DEVICES

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**HINGED DERAILERS (FOR RAIL 36-64KG) (MADE IN USA)**

**MODEL NO. 4014 SERIES**

Permanently installed on two sleepers. Derail block with wheel-deflecting bar is swung on or off the rail as needed. Can be padlocked in either position. Derail must be sized to fit a specific rail height. For more details, see page 105. For more information, request a copy of our installation guide. **All derails are designed for travel speeds under 8km/hr. Any higher speed may cause a failure to derail.**

**One Way Derails – Suitable for 6-axle and 4-axle locomotives and all freight cars**



LEFT THROW TYPE		
Model No.	Description	Wt (kg)
4014-01	Manual Lift Sign (Pictured above)	71.0
4014-10	Pop-Up Sign	

RIGHT THROW TYPE		
Model No.	Description	Wt (kg)
4014-02	Manual Lift Sign (Pictured above)	71.0
4012-12	Pop-Up Sign	

**Two Way Derails**



TWO-WAY FREIGHT CAR DERAIL		
Suitable for freight cars and 4-axle locomotives		
Derail block is lifted on or off the rail either manually or with a Lifting Lever (Model No. 4014-28, page 107). Sign Holder is available in two styles: manual lift or pop-up.		
Model No.	Description	Wt (kg)
4014-03	Manual Lift Sign (Pictured above)	77.3
4014-14	Pop-Up Sign	

TWO-WAY LOCOMOTIVE DERAIL		
Suitable for 6-axle and 4-axle locomotives and all freight cars		
Low-angle deflection bar accommodates longer wheel base of 6-axle locomotives. Allow ample space alongside the track for derailed vehicle to slide to a stop.		
Model No.	Description	Wt (kg)
4014-18	Manual Lift Sign (Pictured above)	77.3
4012-20	Pop-Up Sign	





**HINGED DERAILERS (FOR RAIL 36-64KG) (MADE IN USA)**



For more convenience and greater safety, Aldon now offer a Pop-Up sign holder for our hinged derails.

The weight of the derail block when swung on the rail causes the sign holder to rise. When the derail block is swung off the rail the sign holder falls down to the sleepers.

Two-Way Freight Car Derail is shown in use with Pop-Up sign holder and optional lifting lever.



**MODEL NO. 4014-13**

Model No.	<b>4014-13</b>
Description	Adapter Plate for Installing Hinged Derails on Steel sleepers Track. Steel adapter plate, 25.4mm thick is welded to three steel sleepers. Custom-sized derail is bolted to plate. Plate accommodates all types of rail clips. The adapter plate is custom made and is not returnable.
Wt (kg)	114.0

**RETRACTABLE DERAILERS (MADE IN USA)**

**MODEL NO. 4114 SERIES**



**LOCOMOTIVE STOPPING POWER - Retractable Derails for exposed rail supported on wooden sleepers**

Designed for freight cars and all sizes of locomotives. One-way or two-way derailing. Install on wooden sleepers only. Handle effort 13.2kg to slide derail. Minimum height of rail 140mm. Assembly includes derail, connecting rod, stand, and sign. Customer furnishes two 4.27m switch sleepers to support operating stand.

**SPECIFICATIONS**

Model No.	Throw	Wt (kg)
<b>4114-10-L</b>	Left	210.0
<b>4114-10-R</b>	Right	210.0
<b>4114-11</b>	Two-Way	250.0

To order, request derail sizing form



**MODEL NO. 4114 SERIES**

**Wheel Shover** works with Retractable Derail (top of page), to give a sideways shove to wheels to break the forward momentum of the car or locomotive to ensure that swift derailing takes place. The addition of a Shover is recommended for difficult track conditions such as: curved track, sloped track, or track where switching speeds are above normal.

**WHEEL SHOVER** is connected to the Retractable Derail so that when the derail slides onto its rail, the Shover slides against the other rail like a switch point. Derail and Shover retract together to permit clear passage of rolling stock.

Standard **WHEEL SHOVER** is non-insulated. If you need insulation protection, contact us for special pricing. **WHEEL SHOVER** can be connected to existing Retractable Derail installations.

**SPECIFICATIONS**

Model No.	Type
<b>4114-13</b>	Two Direction
<b>4114-12</b>	One Direction – Left
<b>4114-14</b>	One Direction – Right





**DERAILERS FITTING (MADE IN USA)**

**HOW TO GET A GOOD DERAIL FIT**

**Measuring Height of Rail**

To be effective, a derail must be correctly sized for the rail it is installed on, and adjusted in height so that the derail block (the part that swings onto the rail) lies flat on the surface of the rail. There are many sizes of rail to be found in industrial spur tracks. The first step to insuring a good derail fit is to carefully measure the height of the rail above the sleepers. The simplest way to make this measurement is to place a 1524mm steel bar or pipe across the rails and measure up from the tie with a ruler, keeping close to the rail against which the derail will be installed. Read to the nearest 3.2mm (1/8").



**Crop the Tie Plates**



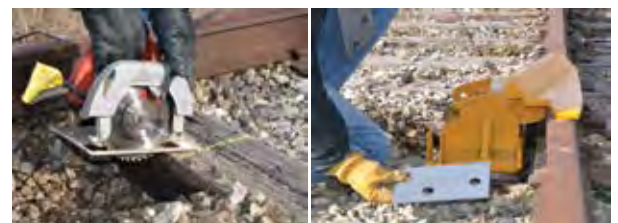
The derail sits on two ties and must be pushed up against the rail head. The tie plates inside the rail will get in the way, so it is necessary to crop the plates close to the base of the rail. The derail base must sit flat on the sleepers.

Mark each sleeper plate about 25mm away from the rail base. Use a metal-cutting power saw or a torch. If using a saw, remove the spike on the gauge side and cut the plates. If using a torch, you will need to remove the two sleeper plates from under the rail, crop them, and then reinstall them under the rail, re-spike the outer portions of the plates. **Do not, as a short cut, permanently remove the sleeper plates. They are needed to support the rail and hold to gauge.**

**Adjusting Derail to Rail Height**

The underside of the derail block must be level with the top of the rail.

It may be necessary to either notch the two sleepers to lower the derail, or use metal shims to lift the derail. To lower the derail, make a series of kerf cuts in the two ties. Maximum notching depth: 9.5mm. To raise the derail, use 6.4mm (1/4") and 3.2mm (1/8") Aldon steel shims. Maximum shimming height: 12.7mm (1/2").



**Too High**

There should be no space between derail block and top of rail



**Too Low**

A derail block that does not lie flat will cause a failure to derail



**Just Right**

Derail block lies flat on rail; derail base sits flat on ties



**SABERTOOTH PORTABLE DERAILERS (MADE IN USA)**

**MODEL NO. 4014 SERIES**

**SaberTooth™ PORTABLE DERAILS**

Temporary Derailing Protection for exposed rails on wooden sleepers. One-way and two-way derailing for industrial sidings and approaches to buildings. Aldon portable derails stand 70mm (2.75") above top of rail to meet current railroad locomotive clearance requirements. Designed for slow switching speeds: less than 8km/hr. Blue derail sign and holder are included with all derails



**FEATURES**

- **Patented design**
- **Formed Steel Plate Housing** - No welds in shear plane to fail. Full contact with rail head.
- **Safety Hook** - If brace bar notch should slip off tie plate, hook bites into sleeper. Prevents derail from slipping
- **Tool-free installation** - No wrenches needed. Four thumbscrews anchor derail to rail head. No damage to rail surfaces

**SPECIFICATIONS**



**TWO-WAY**

For freight cars and 4-axle locomotives only.  
Do not use with 6-axle locomotives  
Wooden Sleepers, Tie Spacing 482-610mm

Model No.	Suits Rail (kg)	Wt (kg)
<b>4014-09-S</b>	45-62	22.7



**LEFT/RIGHT THROW**

For 4-axle and 6-axle locomotives and all freight cars  
Wooden Sleepers, Tie Spacing 457-610mm

Model No.	Suits Rail (kg)	Throw	Wt (kg)
<b>4014-06-S</b>	41-64	Left	15.9
<b>4014-07-S</b>	41-64	Right	15.9





**DERAILER ACCESSORIES (MADE IN USA)**

**MODEL NO. VARIOUS**

Basic Spur Track Safety — DERAILS - Don't run over your derail because you didn't see it!



Magnetic Light

Small but brilliant flashing mini-light with magnet base/steel clip

Model No. **4015-32**



Clip On

Flashing Blue Light

Model No. **4115-01**



Flashing Red Light

Model No. **4115-17**



MoonSign

3 x bigger than standard blue derail sign (455mm OD). White retro-reflective white facing and oversized DERAIL lettering on both sides. Can be seen further away night or day. Fits any Aldon derail sign holder, hinged or portable (Except "Pop-Up Signs" on page 102)

Model No. **4015-185**



Sleeper-Mounted Sign Plate

At a distance, you can't see a derail unless the derail sign is raised. Remind your workers of the importance of lifting or lowering the sign plate when using a derail

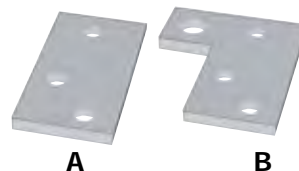
**ALWAYS**  
Lift up sign when you place derail block on rail.  
Lower sign when you throw derail block off rail.

ALDON COMPANY, INC. • www.ALDONCO.com

**Lifting Levers**  
Handle effort 9.1kg to flip derail



Model No.	<b>4014-25</b>	Suits Thick	25.4mm
Model No.	<b>4014-28</b>	Suits Thick	19.1mm



Steel Shims

**(A) for Manual Lift derails**  
(4014-01, -02, -03, -18)  
**4014-31** 3.17mm thick  
**4014-32** 6.35mm thick

**(B) for Pop-Up derails**  
(4014-10, -12, -14, -20)  
**4014-26** 3.17mm thick  
**4014-27** 6.35mm thick



Padlock

Model No. **4124-97**

LOCOMOTIVES & RAIL CAR STOPPING DEVICES

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**CAST STEEL WHEEL CHOCKS - INFO (MADE IN USA)**

**Why Use Wheel Chocks?**

A gust of wind is enough to cause a 118,000kg freight car to start rolling. Thanks to roller bearings, freight car wheels offer very little resistance to movement. In fact, the contact area of each wheel on the rail is smaller than the size of a dime. This is why moving heavy loads by rail is so efficient! But at the same time, all this mass, so easily moved, needs to be securely blocked while the car is being worked.

Loading freight cars increases the strain on the car brakes. Liquid pouring into a tank car or a forklift moving back and forth in a boxcar create dynamic forces which can overcome the holding power of the brakes. Slack in mechanical car brakes can be enough to allow a wheel to move forward approximately 50mm and dislodge a dock board or strain a hose line. This why OSHA mandates the use of wheel chocks in addition to car brakes wherever rail cars are being worked.



Photo by courtesy Baden Tidd

**Aldon Chocks have the Edge**

In 1955 Aldon Company introduced cast steel chocks with the unique feature of replaceable spurs (or teeth). The spur is the key to effective chocking. Under wheel pressure the spur bites into the hard, smooth surface of the rail to keep the chock from sliding. But eventually, like the blade of a knife, the spur edge will become dull from use. A dull spur can't bite into the rail to keep the chock from sliding. You can keep the sure grip of an Aldon wheel chock by turning the spur to three new sharp edges and then replacing the spurs at nominal cost instead of buying a new wheel chock.



**It's easy to turn and replace worn spurs in Aldon Chocks**

Chock spurs have four edges. When the first edge becomes dulled from use, you can tap the spur out of its slot and re-insert it with a fresh edge exposed. By turning the spurs at intervals you extend the service life and effectiveness of your wheel chock. Ask for our free booklet on changing out spurs or go to [www.aldoninfo.com](http://www.aldoninfo.com) and watch our two-minute video on chock spur maintenance.



**MODEL NO. 6008**

**Replacement Spurs**

Made of 12.7mm sq. tool steel, heat treated for a hard and sharp edge.



LOCOMOTIVES & RAIL CAR STOPPING DEVICES

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**CAST STEEL WHEEL CHOCKS - INFO (MADE IN USA)**

**What Kind of Rail Do You Have?**

One type of chock does not fit every rail situation. Aldon offers flush rail chocks and exposed rail chocks. Exposed rail is open to the sleepers. Flush rail is encased in pavement, with only a flangeway left open on the inside of both rails for wheels to pass through.

**EXPOSED**

Open to the sleepers & ballast



**FLUSH**

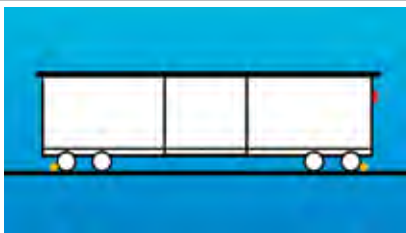
Encased in pavement with only a flangeway on inside of rail



**Single Chocks or Double Chocks?**

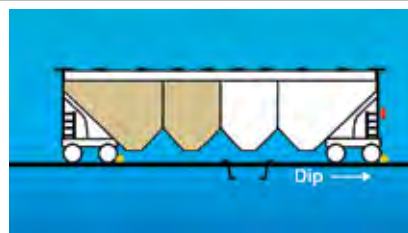
**Recommended chocking procedures for single cars on flat track**

**Idle Car on Storage Track**



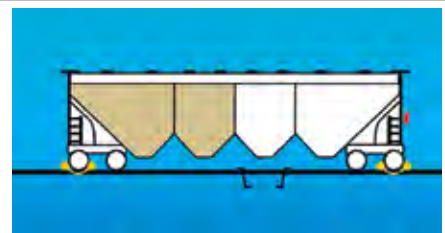
If the track is flat and there is no vibration, single chocks at each end can be used to block car movement. **Set brake before chocking**

**Car Being Worked – Slight Dip**



If the car tends to roll in one direction, single chocks at each end may be sufficient. **Set brake before chocking**

**Car Being Worked - Flat Track**



Double chocks on each end of the car provide two-chock blocking against movement in either direction. **Set brake before chocking**

**Recommended chocking procedures for multiple cars on flat track**

**Car on sloped track**



**Use double chocks** on flat track, where a line of rail cars remain coupled together, and are moved forward progressively to be loaded/unloaded: Brake and chock the car to be worked (chock both ends of the car). It may be necessary to brake and chock several cars behind the car to be worked, depending on your operating conditions. When the first car is ready to be moved, remove the chocks and release the brakes on the cars. Move cars forward and repeat the braking and chocking procedure. If cars are uncoupled to be worked separately, brake and chock each car

**WARNING!**

Do not use wheel chocks on sloped track

**Brake then chock. Chock both wheel sets. Do not use chocks on sloped track**



**CAST STEEL WHEEL CHOCKS WITH SPURS (MADE IN USA)**

**MODEL NO. 4011 SERIES STANDARD CHOCK WITH FLAG**

Single Chock & Flag (710mm handle)



Double Chock & Flag (710mm handles)



Model No	Type	Suits Rail Type	Weight (kg)	Model No	Type	Suits Rail Type	Weight (kg)
<b>4011-01</b>	A	Exposed	5.9	<b>4011-06</b>	C	Exposed	7.3
<b>4011-02</b>	A-1	Flush	5.9	<b>4011-07</b>	C-1	Flush	7.3
				<b>4011-08*</b>	C-2	Exposed	9.1

Single Chock (380mm handle)



Double Chock (380mm handles)



Model No	Type	Suits Rail Type	Weight (kg)	Model No	Type	Suits Rail Type	Weight (kg)
<b>4011-09</b>	D	Exposed	2.7	<b>4011-03</b>	B	Exposed	5.5
<b>4011-10</b>	D-1	Flush	3.6	<b>4011-04</b>	B-1	Flush	5.5
				<b>4011-05*</b>	B-2	Exposed	9.1

\*with tension clamp and padlock

**MODEL NO. 4011 SERIES STAY-CLEAR CHOCKS WITH FLAG**

**Keep your head and hands away from the rail car when placing wheel chocks.**

Handle length of 1117mm makes it easy to place the chock under the wheel while staying clear of the car body. Added handle length makes it easy to see the chock even down a long line of cars. Cast steel chock with replaceable spurs insures effective car blocking.

Single Chock (1117mm handle)



Double Chock (1117mm handles)



Model No	Suits Rail Type	Weight (kg)	Model No	Suits Rail Type	Weight (kg)
<b>4011-14</b>	Exposed	6.4	<b>4011-16</b>	Exposed	11.8
<b>4011-15</b>	Flush	6.4	<b>4011-17</b>	Flush	11.8





**HEAVY DUTY CHOCKS, SAFETY LIGHTS & ACCESSORIES (MADE IN USA)**

**MODEL NO. 4011 SERIES**

**Whack 'Em Severe Duty Wheel Chocks**

If your wheel chocks get stuck under locomotive or rail car wheels, try our Whack 'Em chocks. Reinforced steel handles can stand up to hammer blows or yanking the handle sideways to free the chock. **Look for the red handles.**



**Whack 'Em Double Chocks**  
(380mm handle) "pictured right"

Model No.	Suits Rail Type	Weight (kg)
<b>4011-30</b>	Exposed	6.4
<b>4011-31</b>	Flush	6.4

**Whack 'Em Single Chock with Flag**  
(710mm handles)



**Whack 'Em Double Chocks with Flag**  
(710mm handles)



Model No.	Suits Rail Type	Weight (kg)
<b>4011-32</b>	Exposed	7.3
<b>4011-33</b>	Flush	7.3

Model No.	Suits Rail Type	Weight (kg)
<b>4011-34</b>	Exposed	8.2
<b>4011-35</b>	Flush	8.2

**MODEL NO. 4011 SERIES**

**Standard Wheel Chocks with Safety Lights**

Why risk derailment or ruptured hoses if the night switching crew doesn't notice that a car wheel is still chocked? Aldon flag wheel chocks are now available with quick flashing light and mounting bracket. The light can be seen for over 1.6km away with your choice of colour; Blue, Red or Amber.



**Single Chock with Flag and Light**



**Double Chock with Flag and Light**



Model No.	Suits Rail Type	Weight (kg)
<b>4011-36</b>	Exposed	6.4
<b>4011-37</b>	Flush	6.4

Model No.	Suits Rail Type	Weight (kg)
<b>4011-38</b>	Exposed	7.7
<b>4011-39</b>	Flush	7.7

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**CHOCK ACCESSORIES (MADE IN USA)**

**MODEL NO. 4011-22**

**Chock Carrier Bracket**

Weld bracket to industry-owned freight cars so wheel chocks are always available. Bracket can also be welded to a steel column on rail dock.



Model No.	Fits Aldon chock Model No's	Weight (kg)
<b>4011-22</b>	4011-03, 4011-04, 4011-10, 4011-09	2.27

**MODEL NO. 6008**



**It's easy to turn and replace worn spurs in Aldon Chocks**

Chock spurs have four edges. When the first edge becomes dulled from use, you can tap the spur out of its slot and re-insert it with a fresh edge exposed. By turning the spurs at intervals you extend the service life and effectiveness of your wheel chock. Ask for our free booklet on changing out spurs or go to [www.aldoninfo.com](http://www.aldoninfo.com) and watch our two-minute video on chock spur maintenance.

Model No.	Description
<b>6008</b>	Replacement Spur (Single) made of 12.7mm square tool steel, heat treated for a hard and sharp edge





**HIGH SECURITY SWITCH POINT LOCK (MADE IN USA)**

**MODEL NO. 4023-07**



**FEATURES**

Suitable for rail 41-68kg/metre, the unit grips the base of the switch point and base of running rail. With a fine threading of screw and 3-point flipper type handle it can bring the switch point tight to the main rail, +/- 0.8mm for a no-wiggle fit. A security padlock can be applied without any loss of tightness. Keep the screw lubricated with grease.

**SPECIFICATIONS**

Model No.	Suits Rail (kg/m)	Weight (kg)
<b>4023-07</b>	41-68	3.2



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**RAIL SKIDS (MADE IN USA)**

**MODEL NO. 4016 SERIES**

Cast-steel rail skids (or “skates”) can be used as wheel chocks or as car-stopping devices for slowly moving freight cars. Skids are also a low-profile chock for idling locomotives.

As a Wheel Chock (for flat track only): Place skid on each rail a few feet in front of stopped car. Slowly roll car forward so wheels can mount skids. Apply car brakes. Chock other end of car on flat track.

As a Car-Stopper (for flat track only): Place skids on each rail, one skid a few metres away from the other. Let car roll forward at 5-8km/hr maximum speed. Wheels will mount skids and resulting friction of skid under wheel load brings car to a gradual stop. Note that a skid can be knocked off rail; be sure to have a derail installed further down the track, just in case.



Replace skids when tongues become deformed. Skid tongue must lie dead flat on the rail to be effective.

LOCOMOTIVES & RAIL CAR STOPPING DEVICES

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Model No.	Image	Description	Rail Size (kg)	Service Type*	Weight (kg)
<b>4016-10</b>		For light to average weight cars, as car stopper and wheel chock	47-60	Industrial Exposed	8.6
<b>4016-09</b>		A light-weight skid, useful as a wheel chock on industrial sidings, and to alert engineer when pushing a string of cars into a dead-end siding	47-60	Industrial Exposed	5.9
<b>4016-12</b>		For heavy railroad service — particularly for hump yard tracks where trains are being formed. Features deep “pocket” to capture car wheel. High back keeps wheel from jumping over	47+	Railroad or Heavy	19.1

\* RAILROAD SERVICE (for use on 47kg or heavier rail) / INDUSTRIAL SERVICE (for use exposed rail 47-60kg)



**RAIL SKIDS (MADE IN USA)**

**MODEL NO. 4016 SERIES CHOCKING SKID FOR FLUSH RAIL**

Tamper-proof chock for freight cars, or idling locomotives on flat track. Low clearance (102mm above top of rail). Lip on one side of skid is removed for seating on flush rail. Roll car onto skid and apply brake. Chock other end of car with a conventional wheel chock. Skids are furnished as either "left rail" or "right rail" as viewed from the handle end of the skid.



Model No.	Height (mm)	Length (mm)	Weight (kg)
<b>4016-22-L</b>	102	458	5.9
<b>4016-22-R</b>	102	458	5.9



**LOCOMOTIVES & RAIL CAR STOPPING DEVICES**

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**SPECIALISED FORCE CUSTOMISED RAIL STOP/CHOCK**

**OVERVIEW**

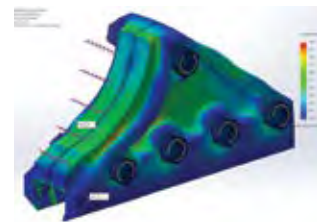
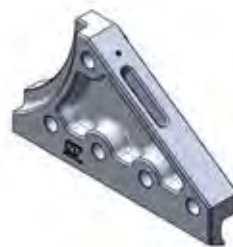
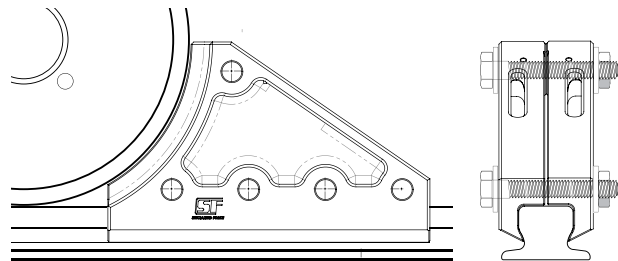
The Specialised Force Customised RAIL STOP/CHOCK products provide innovative and flexible solutions for a variety of rail stop/chock applications across multiple industries and rail gauges (e.g., freight/passenger rail lines, crane rail lines, etc.).

**FEATURES**

- Custom fit for multiple rail profiles
- Withstands up to 8 Mega Newton impact
- Lightweight aluminium alloy
- Built-in M12 lifting points
- Under 20kg for easy handling
- Secures without rail drilling
- Verified with FEA for durability
- Inspection-ready after impacts

**TYPICAL DESIGN AND OPERATIONAL CHARACTERISTICS**

- Products can be customised to suit various rail profiles and types, designed for use on relatively level rail lines with low vehicle/structure velocities.
- Rail stop/chock units can accommodate high levels of instantaneous impact force (e.g., up to 8 Mega Newtons), with designs verified using advanced engineering and validation techniques, such as Finite Element Analysis (FEA).
- Manufactured from high-strength, lightweight aluminium alloy for ease of handling and transport.
- Incorporates built-in M12 eye bolt anchor points for the attachment of suitable lifting, handling, and transport aids.
- Designed for ease of manual handling: all components weigh under 20kg, allowing assembly and installation on relevant rail profiles by one or two people. Suitable for both permanent and temporary applications.
- To install: simply position and fit the stop/chock halves, apply the necessary bolts/nuts, and tighten to the predefined torque settings—no rail drilling required.
- Routine inspection and verification are recommended after significant collision events to ensure the stop/chock's functionality and structural integrity, as repeated impacts may weaken the product.



**TYPICAL INDUSTRIAL APPLICATIONS**



Stacker/Reclaimer Rail  
Wheel Stop/Chock



Rail Freight & Passenger  
Car Rail Wheel Stop/Chock



Gantry Crane Rail  
Wheel Stop/Chock




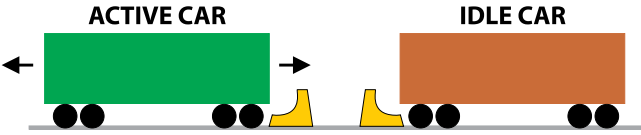
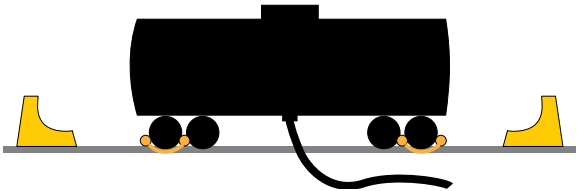
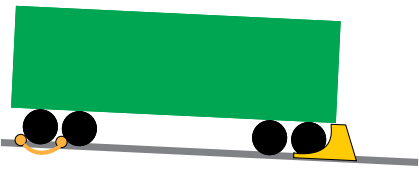
**CAR STOPS & BUMPING POSTS FOR FREIGHT CARS (MADE IN USA)**

**MODEL NO. 4016 SERIES**

We have three levels of car stopping products based on frequency of use and the length of the train that will make contact with the stop.

- Car Stops and Bumping Posts are for use on flat track only at a slow speed (1.6-4.8km/hr).
- Car Stops are not equal in stopping capacity to a Bumping Post. Limit use of car stops to lightly travelled side tracks, where one to two cars maximum are being moved.
- Provide ample space between car stops and object to be protected.
- Use a signalman to guide locomotive engineer as cars approach stop or post. Repeated impacts will weaken stops and posts.

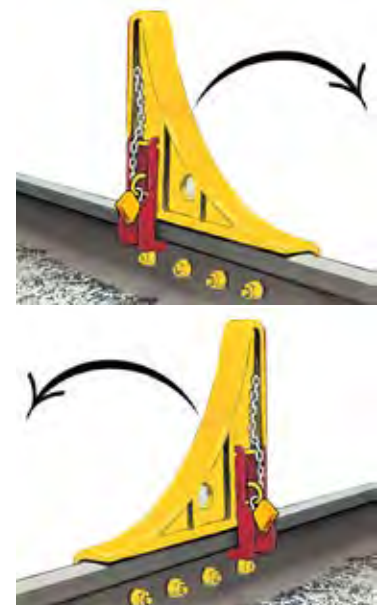
Car stops are sold in single units but should always be used in pairs.

WAYS TO USE CAR STOPS	
1	<p><b>End-of-Track Stop</b> For car storage tracks and lightly used loading tracks</p> 
2	<p><b>Car Separation</b> Avoid contact between rail car being moved and nearby parked rail cars. Provide ample distance between stops and car.</p> 
3	<p><b>Backup for Chocks</b> Provide additional stopping protection if wheel chocks/brake can't hold car steady.</p> 
4	<p><b>Chocking on Grades</b> (1% max. slope) <b>Procedure:</b> 1. Install one stop on each rail. 2. Ease car up against stops — no impact. 3. Apply brake and chock rear wheels 4. For multiple cars use multiple pairs of stops (1 pair per car). 5. Provide adequate means to stop car movement when car stops are removed.</p> 

**CS-3X HINGED, LOCKING TYPE  
(1-2 CARS. LIGHT-DUTY SIDE TRACK)**

Stops are bolted through web of rail. Stops fold outward when not needed. Lock casting grips head of rail and can be padlocked to prevent unauthorised use of stops. If load is too great, bolts can shear.

Model No.	Type	Style	Weight (kg)
<b>4016-05-R</b>	Right Hand	Hinged, Locking	43
<b>4016-05-L</b>	Left Hand	Hinged, Locking	43





**CAR STOPS & BUMPING POSTS FOR FREIGHT CARS (MADE IN USA)**

**CS-2 SELF-TIGHTENING TYPE  
(1-2 CARS. LIGHT-DUTY SIDE TRACK)**

Wedge holds bolted-together car stop to rail. Stop stands 380mm above rail. It can be used as chock as well as stopping device. Tighten bolts periodically and re-hammer wedge if loosened.

Model No.	Style	Weight (kg)
<b>4016-03</b>	Self-Tightening	49



**CS-4 SEVERE DUTY TYPE  
(1-3 CARS. MORE FREQUENTLY USED  
SIDE TRACK)**

These units use the cushioning capacity of the sleeper and a wheel-bump feature to lift the wheel slightly off the rail to absorb momentum. Recommended for spur tracks where more protection is needed than a conventional car stop can provide.

Model No.	Style	Weight (kg)
<b>4016-06</b>	Self-Tightening	79



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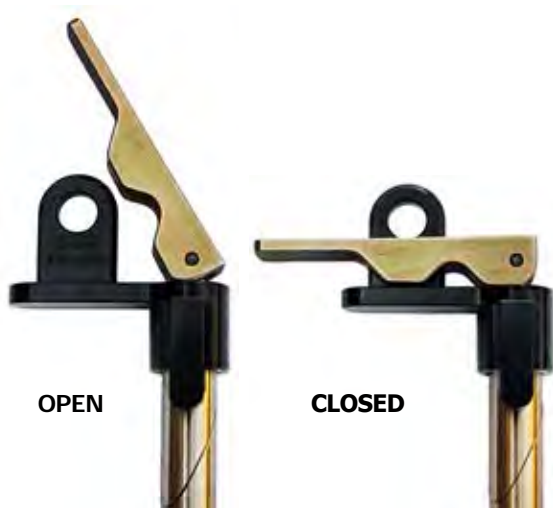




**DIRECTIONAL / THROTTLE LOCK OUT (MADE IN CANADA)**

**MODEL NO. 2323003A**

The Loc-It is an innovative device designed to effectively safeguard mechanical service employees from unintended train movement while they are performing work on locomotives. This device is inserted into the reverser control. The unique, patented design of the Loc-It offers users simplicity, reliability, functionality, and safety.



**FEATURES**

- Simple, maintenance free design
- Precision machined
- Heat treated components

**SPECIFICATIONS**

Model No.	Size (mm)	Wt (kg)
<b>2323003A</b>	76 x 89 x 25	0.1

**LOCOMOTIVES & RAIL CAR STOPPING DEVICES**

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**NINE LIVES WHEEL CHOCK WEDGE**

A practical alternative to using oak or wooden wedges as wheel chocks. Wheel Wedge is designed to chock idle rail cars on storage tracks where cars are not subjected to vibration. Moulded in a special grade of urethane, the wedge is 254mm (10") long, 64mm (2-1/2") high and 95mm (3-3/4") wide. Rail car must be stationary before using wedge. After setting car brake, worker slips wedge under wheel. When the wedge needs to be removed, the worker does not have to stoop down and try to free it from the wheel. Instead, the rail car can run over the wedge repeatedly, with no damage to the wedge and no risk of derailing the car.



Simply flip to use left or right

**IMPORTANT SAFETY & USE INFORMATION:**

- Do not use wheel wedge for cars being loaded or unloaded — use steel wheel chocks instead.
- Do not use if car is raised at on end. All wheels must remain on the rails.
- Use on exposed or flush rail on flat track only.
- Rail surface must be clean. Do not install this product on oily or greasy rail - product may slip.



Model No.	Dimensions LxWxH (mm)	Weight (kg)
<b>4011-18</b>	254 x 95 x 64	0.9



Wooden wedges can only be run over once and they can litter the track with splinters. A car can be pushed over the NINE LIVES wheel wedge.



**SPARK-PROOF HEAVY-DUTY URETHANE RAIL WHEEL CHOCK**



SPARK-PROOF Urethane Wheel Chocks are tough enough to block a tank car, but resilient enough that the car can be pulled over the chock by a locomotive without derailing. For chocking tank cars and other freight cars, loading or unloading hazardous materials and used where a spark from a steel wheel chock could ignite dust or fumes.

squeegees out water and dirt from rail surface, to increase holding power. Urethane has great resistance to loads with the ability to compress to half of its thickness and then spring back to its original shape. Urethane will not degrade from corrosive materials and most chemicals.

No more trying to yank free a steel chock that is stuck under a wheel. When it's time to move, just pull the car over the chock and retrieve the chock later. Moulded transverse ribbing



When installed on flush rail the handles are 38mm above the pavement for easy gripping.

Watch the video of the successful test at the Association of American Railroad's testing facility at Pueblo, Colorado and then at a shortline railroad.

Refer to the scan and play for this and other related product information.

**SINGLE** - For one direction



Model No.	Rail Type	Wt (kg)
<b>4011-42</b>	Exposed	2.3

Model No.	Rail Type	Wt (kg)
<b>4011-43</b>	Flush	2.3

**DOUBLE** - Designed for two way direction, handles are 610mm long, with elastic linking lanyard.

Model No.	Rail Type	Wt (kg)
<b>4011-40</b>	Exposed	4.1

Model No.	Rail Type	Wt (kg)
<b>4011-41</b>	Flush	4.1



**WARNINGS!**

1. **For use on flat track only.** Do not use chocks on grades.
2. **Set brake before installing chocks.** Rail car or locomotive must be stopped and brakes applied before chocks can be placed.
3. Do not use chock if rail car or locomotive is lifted up at one end for inspection or repair.
4. **Chock both ends** of the rail car or locomotive.
5. Use on rails 44.6 to 76.9kg/m.
6. Minimum wheel diameter 838mm (33").
7. **Do not use on oily or greasy rail** as chock will slide.
8. When rail car is ready to be moved, you may pull car over chocks. They will return to their original shape.
9. Replace chocks if urethane is torn or cracked.

RERAILERS FOR FREIGHT CARS



Rerailers are used in pairs but sold separately, both an inside and an outside rerailer is required per set.



**BURLINGTON STYLE FREIGHT RERAILERS**



Double-ended "Burlington-Style" rerailers are locked to the rails by clamps and wedges and will not slip or kick out during rerailing. One **Inside** and one **Outside** make a pair. Rerailers are reversed in direction and exchanged in position to suit different derailed wheel situations. For use with standard size cars. **Used in pairs but sold separately: one inside rerailer and one outside rerailer.**

Model No.	Suits Rail Size (kg)	Style	Type	Weight (kg)
<b>4118-01-I</b>	30-41	Burlington	Inside	46
<b>4118-01-O</b>	30-41	Burlington	Outside	46
<b>4018-04-I</b>	47-60	Burlington	Inside	77
<b>4018-04-O</b>	47-60	Burlington	Outside	77

**STRADDLE-TYPE FREIGHT CAR RERAILERS**

The most practically designed. All wheels are rerailed with one placement of rerailers. Chain and hook holds rerailers securely to rails. For standard-size rail cars. **Used in pairs but sold separately: one inside rerailer and one outside rerailer.**



Model No.	Suits Rail Size (kg)	Style	Side	Weight (kg)
<b>4018-01-L</b>	41-60	Straddle-Type	Left	77
<b>4018-01-R</b>	41-60	Straddle-Type	Right	77
<b>4018-02-L</b>	30-50	Straddle-Type	Left	62
<b>4018-02-R</b>	30-50	Straddle-Type	Right	62



**RERAILERS FOR FREIGHT CARS**



Rerailers are used in pairs but sold separately, both an inside and an outside rerailer is required per set.

**MCCARTY TYPE FREIGHT CAR  
RERAILERS**

An old and reliable design for two-way rerailing of locomotives and heavy freight cars. Cast-steel rerailers straddle two sleepers and hook to rail head.

Stout carrying handles at each end butt up against side of sleepers to keep rerailers from sliding as wheel mounts the ramp. No wedges or spiking needed, just scrape some gravel away from the sleeper, and hook the rerailers to the rail.



Model No.	Suits Rail Size (kg)	Style	Type	Weight (kg)
<b>4118-14-I</b>	41-53	McCarty	Inside	95
<b>4118-14-O</b>	41-53	McCarty	Outside	75
<b>4118-15-I</b>	60-68	McCarty	Inside	96
<b>4118-15-O</b>	60-68	McCarty	Outside	87



**BIG RED RERAILER FOR OVERSIZED CARS**

Cast in high strength alloy steel, these double-end rerailers can carry the weight of a 408 tonne (450 ton) rail car or locomotive. Rerailers are used in pairs but sold separately, both an inside and an outside rerailer is required per set (note that photos only illustrate OUTSIDE model). Chains which are sold separately secure the rerails to the rail, two are required per rerailer (so four are required per set).

are required per set).



Model No. *	Suits Rail Size (kg)	Style	Type	Weight (kg)
<b>4018-12-I</b>	47-60	BIG RED	Inside	57
<b>4018-12-O</b>	47-60	BIG RED	Outside	57
<b>4018-13-I</b>	68	BIG RED	Inside	62
<b>4018-13-O</b>	68	BIG RED	Outside	62

**Chains which are sold separately secure the rerails to the rail, two are required per rerailer (so four are required per set).**

Model No. *	Suits Rail Size (kg)	Style	Weight (kg)
<b>4018-09</b>	N/A	SECURING CHAINS	3.2

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# **SF** **SPECIALISED FORCE**

Quality Products, Service and Solutions for 700Bar Hydraulic, Electrical, Rail & Other Key Industries.

ALDON  
CO



DILLON



GIGASENSE

HI-TOOL CO., LTD

Starrett

## **Test, Measurement & Dynamometers**



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**TEST, MEASUREMENT & DYNAMOMETERS**

**128-141**

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**RAIL PULLER "RAILPULL" (MADE IN USA)**

**MODEL NO. 4023-74**

The RailPull rail puller from Aldon brings rail back into gauge after a derailment so rerailing can proceed. Cars can temporarily pass over Rail Pull saddles until rails can be re-gauged. You can use a 1/2" sq. dr. ratchet wrench and 1/2" sq. dr by 1" 8-point impact socket for the securing bolts.

**FEATURES**

- Solid formed plate 12.7mm steel
- No welded joints to crack

**SPECIFICATIONS**

Model No.	Wt (kg)
<b>4023-74</b>	35



**TRACK GAUGE SPREADER  
(MADE IN USA)**

**MODEL NO. 4023 SERIES**

Grabs rail head or base to pull or push rails into desired gauge. Can be used in both regular track and within switches. One end of the head-of-rail Spreader model has a double jaw, one of which is offset to lift Spreader above switch point or heel block. Gauging range 406mm. Reversible ratchet wrench with flip key to change movement direction. Useful for correcting track after derailment and when installing gauge rods. 4023-50 Head of Rail is shown in the image on the right.



Model No.	Description	Gauging Range (mm)	Wt (kg)
<b>4023-50</b>	Head of Rail (Non-Insulated)	406	10.9
<b>4023-51</b>	Base of Rail (Non-Insulated)	406	10.9
<b>4023-52</b>	Base of Rail (Insulated)	406	10.9

TEST, MEASUREMENT & DYNAMOMETERS

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**RAIL GAUGES (MADE IN CANADA)**

**UNI-GAGE - MODEL NO. 446401AUS**

The IPS Uni-Gage is a precision measuring instrument that has been designed and calibrated to accurately measure rail wear on a wide range of rail profiles. Manufactured from high grade aluminum and stainless steel, the Uni-Gage is suitable for 41, 47, 50, 53, 60 and 68kg rail sections in the one gauge.

**Please Note:** For new rail without previous wear, both horizontal and vertical scales should read zero. To maximise rail wear gauge longevity and performance, rail wear gauges should be stored away in a protective case as supplied with the unit.

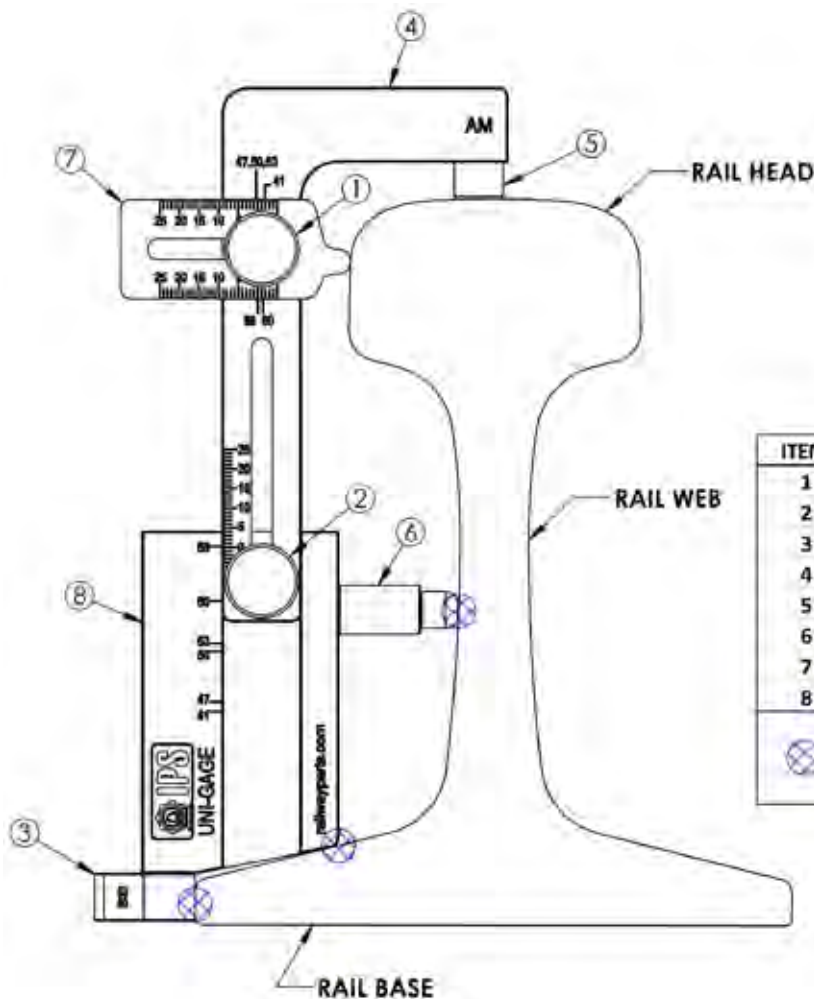
**FEATURES**

- Leather holster with belt loop
- Manufactured from high grade aluminium and stainless steel



**SPECIFICATIONS**

Model No.	Suits Rail (kg)	Unit Wt (kg)
<b>446401AUS</b>	41, 47, 50, 53, 60 & 68	1.81



ITEM	DESCRIPTION
1	UPPER ADJUSTING KNOB
2	LOWER ADJUSTING KNOB
3	ROTATING DIAL
4	HEIGHT GAUGE
5	STOP BLOCK
6	SPACER
7	FINGER
8	BODY
 These 3 points must be in contact with rail for an accurate measurement	

**TRACK LEVEL & GAUGE – ADJUSTABLE ALUMINIUM (MADE IN USA)**

**MODEL NO. 4022-07DUAL**

An economical way to measure up to 51mm (2") of gauge variation to 1.59mm (1/16") accuracy. Slide rule action and large type scale for easy reading. Gauge setting can be locked with thumb screw. Also measures cross elevation from 25.4mm (1") to 177.8mm (7") with 3.18mm (1/8") accuracy.

**FEATURES**

- Two piece, easy to assemble & adjustable
- Lightweight aluminium
- Easy to read measurements
- Supplied with carry bag



**SPECIFICATIONS**

Model No.	Suits Track Type	Gauge Width Markings	Elevation Markings	Wt (kg)
<b>4022-07B</b>	Broad	Metric	Imperial	5
<b>4022-07DUAL</b>	Standard/Broad	Metric	Imperial	5
<b>4022-07N</b>	Narrow	Metric	Imperial	5
<b>4022-07S</b>	Standard	Metric	Imperial	5



**TRACK LEVEL, GAUGE & GAUGE READER (MADE IN USA)**

Track gauge and track levels are available in steel or all-aluminum construction.

**SPECIFICATIONS**

Model No.	Image	Description	Material	Unit Weight (kg)
<b>4022-02</b>		Track Gauge	Aluminum	2.72
<b>4022-01</b>		Track Level	Aluminum	2.27
<b>4022-03</b>		Combination Level/Gauge	Aluminum	2.27
<b>4022-05</b>		Pipe Gauge	Steel	13.63

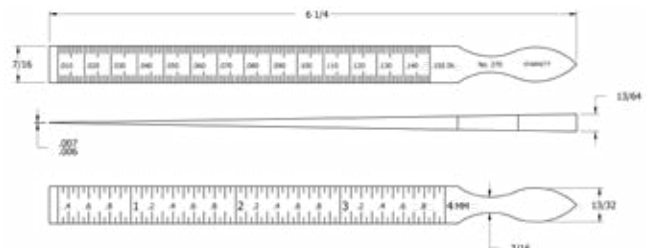
Note: Universal Handle for Track Gauges & Levels is available. The ordering code is 4022-28.

**RAIL TAPER GAUGES (MADE IN USA)**

**MODEL NO. 412**



**4124-98**



**SPECIFICATIONS**

Model No.	Features	Specifications	Unit Wt (kg)
<b>4124-98</b>	Very useful tool for bearing work and for gauging slots. Made of quality tool steel and accurately tapered throughout entire length for quick and convenient measuring. Can be used as a precision shim. One side graduated from 0.010" to 0.150" in thousandths of an inch; the reverse side from 0.3mm to 4mm in one-twentieth of a mm (0.05mm).	Range ("): 010-.150" Range (mm): 0.3-4 Graduations ("): .001" Graduations (mm): 0.05 Length x Width (mm): 160 x 11	Less 0.5

**MAGNETIC RAIL THERMOMETER (MADE IN USA)**

**MODEL NO. PTC SERIES**

Quality magnetic thermometer with Celsius gauge type display. Certification of temperature available upon request at additional charge.

**SPECIFICATIONS**

Model No.	Features	Temperature Range (°C)	Unit Wt (kg)	Image
<b>PTC312CRR</b>	Measurement of temperature in °C	-20°C to +120°C	0.043	
<b>PTC314CRR</b>		+10°C to +400°C	0.057	

**STRAIGHT EDGE**

Precision ground carbon steel straight edge with bevelled edge.

Model No.	Length of Tool (m)	Unit Wt (kg)
<b>SE1M</b>	1	2.27



**SINGLE READING RAIL TRACK DISTANCE MEASURING WHEEL (MADE IN UK)**



For accurate measuring of rail track. This robust, quality measurer was designed with input from international railroad companies and is in daily use worldwide. The heavy duty measuring wheel incorporates metal side plates keeping the wheel stable on the rail.

**FEATURES**

- Large display mechanical counter
- Adds forward subtracts in reverse
- Range 0 to 99999.9m
- Accuracy  $\pm 1\%$
- Supplied complete with carry case
- 3 Year Warranty

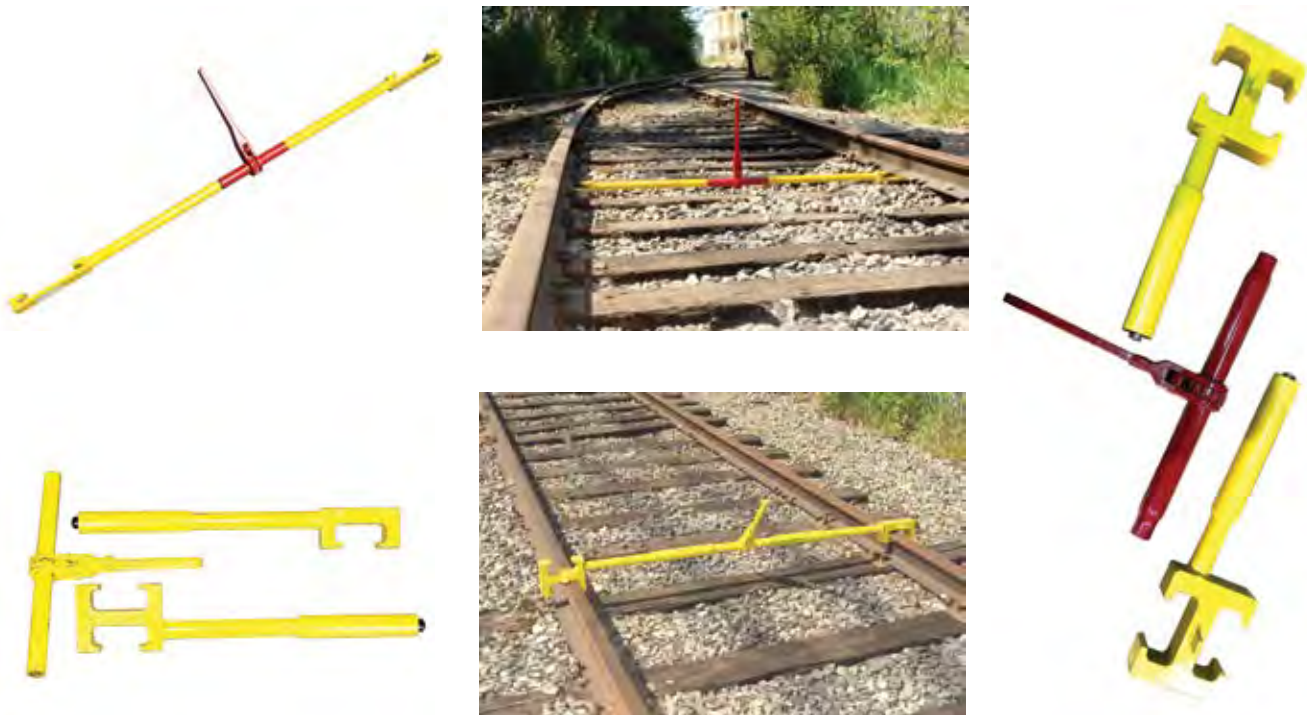


Model No.	Accuracy ( $\pm\%$ )	Weight (kg)
<b>TRU5061</b>	1	5.9



**RAIL GAUGE EXPANDERS/PULLERS (MADE IN CANADA)**

These expanders and pullers tools were designed for correcting rail gauge. A great tool for rail change out applications or restoring gauges quickly and easily. Also useful in derailment areas and holding gauges during tie renewal programs. Application can be from the base of the rail (Model No. 2310030A) or either base and top of the rail (Model No. 2310030B).



Model No.	Track Alignment (Base/Top)	Suits Gauge*	Bracket Ends*	Suits Rail (kg)	Insulated (Yes/No)	Dimensions (mm)	Weight (kg)
<b>2310030A-N</b>	Base	Narrow 1067mm	2 x Single Sided	41-60	No	51x65x1160	8.7
<b>2310030A</b>	Base	Standard 1435mm	2 x Single Sided	41-60	No	51x65x1524	9.1
<b>2310030A-B</b>	Base	Broad 1600mm	2 x Single Sided	41-60	No	51x65x1765	11.5
<b>2310030B-N</b>	Base or Top	Narrow 1067mm	1 x Single & 1 x Double Sided	41-60	No	51x65x1160	17.5
<b>2310030B</b>	Base or Top	Standard 1435mm	1 x Single & 1 x Double Sided	41-60	No	51x65x1524	18.7
<b>2310030B-B</b>	Base or Top	Broad 1600mm	1 x Single & 1 x Double Sided	41-60	No	51x65x1765	20.1
<b>2310030D-N</b>	Base	Narrow 1067mm	2 x Double Sided	41-60	Yes	51x65x1160	18.4
<b>2310030D</b>	Base	Standard 1435mm	2 x Double Sided	41-60	Yes	51x65x1524	19.6
<b>2310030D-B</b>	Base	Broad 1600mm	2 x Double Sided	41-60	Yes	51x65x1765	22.0

\* Rail spreaders are available with single and double sided ends, double bracket ends are used for turn outs



**MODEL NO. 4127 SERIES RAIL TRACK GAUGE CONTROL RODS**

The main cause of derailments in industrial rail yards is over-wide track gauge. Locomotive and freight car wheels can exert as much as 1814kg of side pressure against the rails. If the ties are spongy, they can lose their spike-holding strength and allow the rails to be pushed over from wheel side pressure. A between-the-rails derailment requires cranelifting to put the car or engine back on the rails and extensive track repair.

A pair of iron jaws at each end of the double-ended gauge rod grip the rail base to hold the rails to gauge and keep the rails upright against wheel pressure.

For curved track, use the single-ended gauge rod. Jaws at one end attach to the base of the outer curved rail, which receives the greatest wheel side pressure. The hook at the other end grabs the base of the inner rail.

**A simple preventive measure for gauge spread is to install Aldon double-ended gauge control rods every 2.4m in high traffic track. If your switches do not have gauge plates at the points end, install a double-ended gauge rod at the approach to the switch as well.**

Model No.	Type	Weight (kg)
<b>4127-01</b>	Single End	12.7
<b>4127-02</b>	Double End	17.3



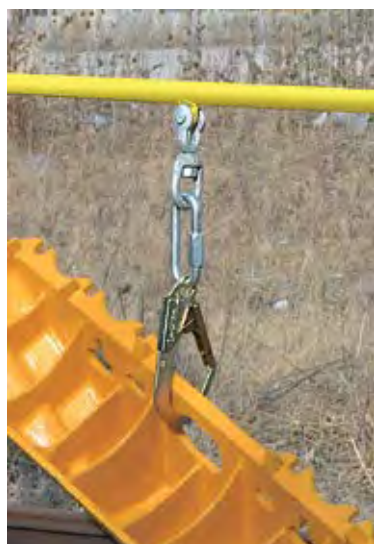
**4127-01**

**4127-02**

**MODEL NO. 4024-54 TWO MAN CARRYING POLE**

Workers can easily carry heavy, bulky items with this 2-man carrying pole. Perfect for rerailers and derailers. The pole is manufactured from steel tubing, 2.44m long with snap hook in the centre.

Model No.	Length (m)	Weight (kg)
<b>4024-54</b>	2.44	4.6



TEST, MEASUREMENT & DYNAMOMETERS

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**LLZ2 ELECTRONIC DYNAMOMETERS**



The TRACTEL® dynafor™ LLZ2 is a precision industrial dynamometer to measure tensile forces or suspended loads.

**QUALITY**

- Rugged and lightweight
- Integrated LCD screen
- Screen protected by strong protections side and front
- Battery life: 350 h
- Safety factor > 4

**VERSATILITY**

- Wide range available: 1t to 20t
- Usable in all positions, in combination with mooring of standard accessories
- Sealing IP65 / NEMA 4: Allows use of the device outside
- Temperature: -20 ° C to + 50 ° C

**ERGONOMICS**

- Cut corners: risks minimized hooking during lifting operations
- Good readability: height of digits on the LCD: 18 mm

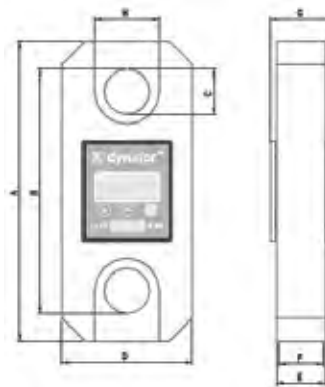
**ACCURACY**

- Designed to measure tension efforts (Newtons) or suspended mass (kg)
- Accuracy 0.3%

**TECHNICAL CHARACTERISTICS**

- Capacities from 1 000 to 20 000 kg
- High precision: ± 0.3% of Full Scale
- Supplied in plastic case with foam wedge
- Complies with Directive 2006/42/EC
- CE compliant

**SPECIFICATIONS**



Model No.	LLZ2 1t	LLZ2 3.2t	LLZ2 6.3t	LLZ2 12.5t	LLZ2 20t	
WLL (tonne)	1	3.2	6.3	12.5	20.0	
Test Load (tonne)	1.5	4.8	9.6	18.75	30	
Safety Factor	4					
Precision	0.3% Full Scale					
+/- (kg)	3	9.6	18.9	37.5	60	
Increment (kg)	1	5	10	20	50	
Maximum Display (kg)	110% of the WLL					
Conversion Factor						
Dynamic effects filter by sliding average calculation in 2 seconds						
Digit Height (mm)	17.8					
Autonomy	350 Hours					
Weight (kg)	0.75	0.93	1.44	3.22	4.95	
IP Protection	IP 65					
Working T°	-20° to + 50°C					
Sensor Material	Aluminium					
Measurements (mm)	A	191	191	236	277	342
	B	164	164	184	226	264
	C	22	22	28	42	54
	D	83.5	99.5	121.5	120.5	147
	E	22	22	22	45	45
	F	19.8	19.8	19.8	40.5	40.5
	G	36.4	36.4	36.4	59.4	59.4
	H	37.6	44.8	54.7	60	73.5

**NOTE:** Precision and Traceability Certified by Adjustment Certificate on 5 steps.

**TEST, MEASUREMENT & DYNAMOMETERS**

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**LLX1 ELECTRONIC / DIGITAL – 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 500kg up to 20 Tonne
- Precision: 0.2% of full scale
- Safety coefficient : minimum 4
- Power supply : 3 batteries 1.5VDC "AA" or 3 rechargeable batteries 1.2VDC "AA"
- Packaging : plastic carrying case
- Protection : IP 65 (NEMA 4)

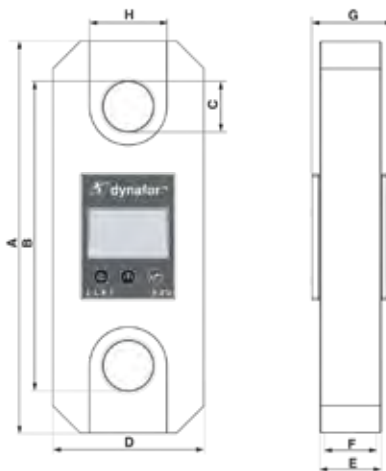
**OPTIONS AND ACCESSORIES**

- Radio Remote display, type LLX1.

**NEW IMPROVED**

- **ELECTRONICS**
- **DESIGN**
- **40% LIGHTER (LLX)**

**- REMOTE CAN BE PURCHASED WITH UNIT OR LATER**



MODEL: LLX1-REMOTE



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Model No.		LLX1-0.5	LLX1-1	LLX1-2	LLX1-3.2	LLX1-5	LLX1-6.3	LLX1-12.5	LLX1-20
Maximum Capacity	Tonne	0.5	1.0	2.0	3.2	5.0	6.3	12.5	20.0
Test Load	Tonne	0.75	1.50	3.00	4.80	7.50	9.60	18.75	30.00
Safety Coefficient		Minimum 4							
Precision		0.2 % FS							
	± daN	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			

**LLX2 ELECTRONIC / DIGITAL – 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 (2.4GHz 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**

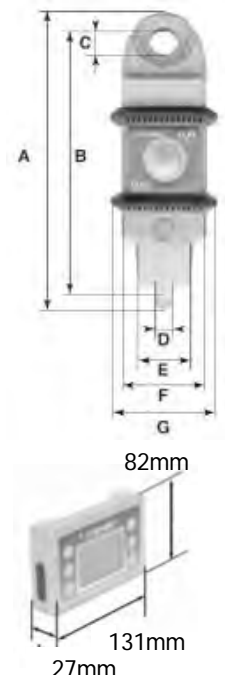
- Up to 4 sensors can be associated to up to 4 displays each.

**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	Tonne	0.5	1	2	3.2	5	6.3	10	All
Test load	Tonne	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%)							
Increment	daN	0.5	1	2	3.2	5	6.3	10	-
Max. Display	daN	0.1	0.2	0.5	0.5	1	1	2	<
Number height	mm	550	1100	2200	3520	5500	6930	11000	<
Autonomy		From 300 to 1000 h depending of functions							
Radio scope	m	80 (in open field) (IP67 = 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)							
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	-





**LLXH ELECTRONIC / DIGITAL – 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).

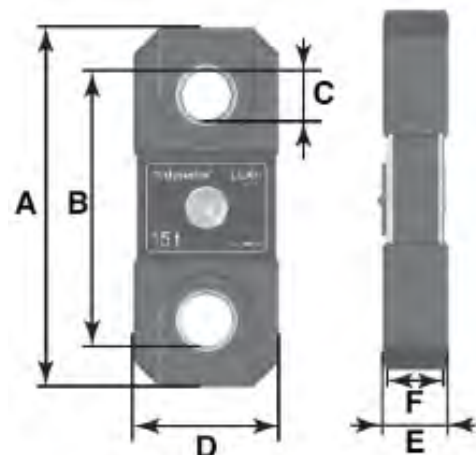
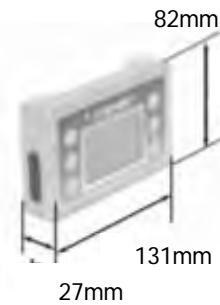


LLXH-25T shown



**SPECIFICATIONS**

MODEL		LLXH 15T	LLXH 25T	LLXH 50T	LLXH 100T	LLXH 250T	Display
Maximum capacity	Tonne	15	25	50	100	250	ALL
Test load	Tonne	30	50	100	200	500	-
Safety coefficient		Minimum					-
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) (IP67 = 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 AND LOAD CELLS (MADE IN JAPAN)**



**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°.
- 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 No.	Capacity (kN)	Capacity (Tonne)	Graduation (kN)	A (mm)	B - Body Ø (mm)	C (mm)	D (mm)	Weight (kg)
<b>TM-5 COMPLETE*</b>	5	0.5	0.1	160	75	90	20	0.9
<b>TM-10 COMPLETE*</b>	10	1.0	0.2	190	75	90	25	1.0
<b>TM-20 COMPLETE*</b>	20	2.0	0.5	190	75	90	25	1.1
<b>TM-30 COMPLETE*</b>	30	3.0	0.5	240	75	95	35	1.9
<b>TM-50 COMPLETE*</b>	50	5.0	1.0	250	90	120	35	2.6
<b>TM-100 COMPLETE*</b>	100	10.0	2.0	350	110	140	50	6.0

\*SUPPLIED WITH PROTECTION BARS & MAX LOAD INDICATOR

**SPARE PARTS**



**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

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**RTM - ROPE TENSION METER**

**RANGE OF APPLICATION**

The RTMe was designed to swiftly and accurately measure the tension in fixed, sta-tionary ropes or cables i.e. guy wires for masts and/or towers or other guyed con-structions. The RTMe will also be very useful in determining the tension in overhead suspension ropes for railway catenaries.

The RTMe can be used to measure tension forces up to 20 metric ton and for wire ropes with a diameter up to 38 mm, up to 20 dif-ferent wire rope dimensions/types can be stored in the memory.

**FUNCTION**



The RTMe is very simple and handy to use. Attach the RTMe to the rope and tighten the tightening screw, read the measured value directly in the displa



Multipoint measuring – easy to store up to six values for quick overview.



Easily toggle between readout in kN, tonne, lbs, DaN or USt.

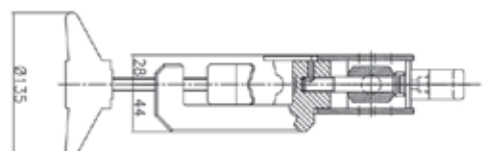
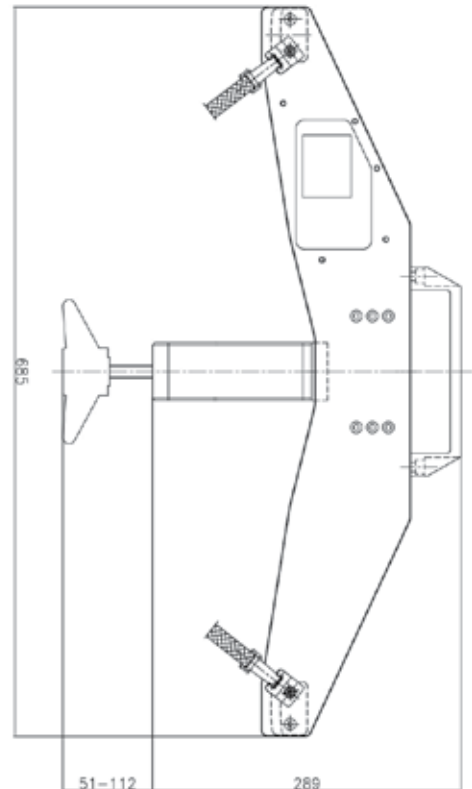
**SAFETY**

Can temporarily be overloaded with 100% of its nominal capacity without affecting the ac-curacy.

The RTMe is delivered in a robust and light weight transport case (760 x 400 x 170 mm) for easy handling and protection of the instru-ment

**SPECIFICATIONS**

Capacity, Measurement range	5 ton, 20 ton
Rope diameters	From 6 mm up to 38 mm
Numbers of ropes to be stored	Up to 20 (factory programmed)
Inaccuracy	Up to ±2% for steel ropes, ±6% for copper ropes (dependent on wire rope type and characteristics)
Display	Simple digital reading of measured values on LCD screen
Battery	Rechargeable 1-cell lithium-ion battery, 3.7 V 850 mAh
Operating time	60 hours at full charge
Material	Corrosion and weather-resistant, side plates of anodised aluminium
Dimension	135 x 380 x 685 mm
Weight	6 kg
Temperature range	-20 to +60 degrees Centigrade
Protection class	IP 65



**QUICK CHECK "RED" CABLE/WIRE TENSION METER**



**CHECK YOUR CABLE/WIRE TENSION IN SECONDS!**

The Dillon Quick-Check can be placed on a cable, measure the tension and be removed in seconds! There are no complex lookup tables and no conversion charts. The operator can quickly select from 20 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.



**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, overhead railway transit wires, fall arrest systems, utilities and much, much more.

**FEATURES**

- Accommodates a wide range of wire sizes and styles
- Telescoping handle length facilitates easy placement on cable
- Built-in averaging saves time and eliminates errors
- Stores calibrations for up to 20 unique wire sizes and types
- Stores wire rope reading and data can be exported (RS-232 port)
- Built-in temperature sensor with patented automatic tension adjustment
- Sheaves with bearings eliminate friction and provide the best accuracy
- Easy-to-read backlit display with full-text prompts and easy to use soft key interface
- Uses standard AA batteries - Up to 250hrs (Tested with back-light off)
- Time saving check-tensioning mode
- Portable and rugged – designed for outdoor use
- Carry case included



Please contact Specialised Force to discuss your requirements - units programmed specifically to order.

**SPECIFICATIONS OF UNIT**

Model No.	Tension Capability (kN/kg)	Wire Size (mm)	Accuracy* (±) %	No. of Calibrations	Temp Range °C	Sheave Range (mm) <sup>1</sup>	Re-Calibration	Size (cm)	Wt (kg)
<b>AWT05-508112</b>	10/1000	4.76-25.4	3-5	Up to 20 Independent	-20 to 70	<12.7	24 Months, Sooner with Frequent Use	25x59x8	5
<b>AWT05-508111</b>	45/4500								
<b>36328-0017MTS (Included)</b>	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).

<sup>1</sup> Sheave accommodates wire size 12.7mm smaller.

Model No.	Sheave Code	Accommodates Wire Diameters (mm)
<b>36309-0085</b>	L	4.75-6.5
<b>36309-0044*</b>	P	4.75-12.7
<b>36309-0010</b>	S	6.5-19.0
<b>36309-0101</b>	T	12.7-25.4

\* "P" Sheave included. Additional sheaves to be ordered according to your cable/wire size

**NOTE: The first wire calibration is included, all others are charged, with pricing reduced the more you order (In Multiples of: 2-5, 6-10 & 11-15).**



**DISPLAY RESOLUTION**

**10kN/1000kgf Quick-Check Instrument**

Model No.	Displayed Resolution Setting		
	Low	Medium	High
<b>AWT05-508112</b>			
Kilogram-Force (kgf)	5	2	1
Newton (N)	50	20	10

**45kN/4500kgf Quick-Check Instrument**

Model No.	Displayed Resolution Setting		
	Low	Medium	High
<b>AWT05-508111</b>			
Kilogram-Force (kgf)	20	10	5
Newton (N)	200	100	50





**ALDON**  
CO

**DURAPAC**  
ENGINEERED FOR RELIABILITY

**zwick**

# **Track Jacks & Wagon Stabilisers**





**TRACK JACKS & WAGON STABILISERS**

**146-159**

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**SAFE D LOCK**



The Safe D Lock jack is a revolutionary design with the operators' safety paramount. It is a lifting jack and rated vehicle jacking stand for heavy mining vehicles and locomotives.

Australian designed and built to meet AS/NZS 2693:2007 standard for vehicle jacks, it also meets AS/NZS 2538:2004 standard for vehicle support stands. The jack uses patented oil-bathed internal locking quadrants that are constantly energised during the lifting process to give a fail safe operation. This locking mechanism automatically engages in the unlikely event of a hydraulic failure. The Safe D Lock jack is compact and portable and is the perfect choice for the workshop or service vehicle.

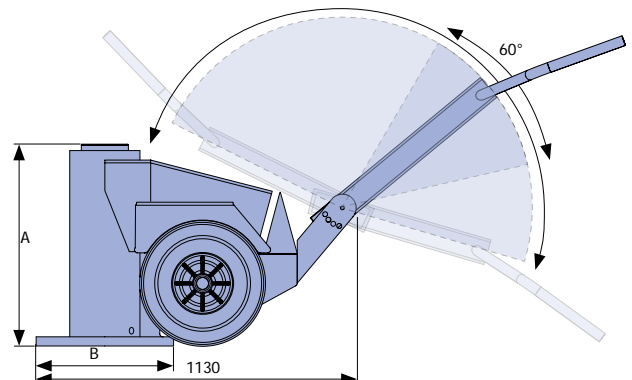
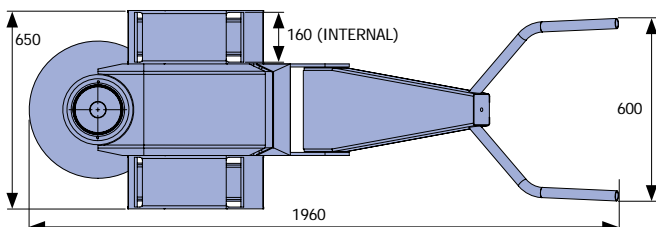


Model Number	Jack Capacity			Cylinder Effective Area (cm <sup>2</sup> )	Collapsed Height (mm)**	Stroke (mm)	Maximum Lift Height (mm)***	Weight (kg)	Oil Tank Capacity (L)
	Metric (tonne)	US (ton)*	(kN)						
<b>SDL-07068</b>	70	77	686	143	680	404	1,408	290	24
<b>SDL-07081</b>	70	77	686	143	812	535	1680	320	24
<b>SDL-10068</b>	100	110	980	143	680	404	1,408	290	24
<b>SDL-10081</b>	100	110	980	143	812	535	1,680	320	24
<b>SDL-15068</b>	135	150	1,324	254	680	400	1,408	420	24
<b>SDL-15096</b>	135	150	1,324	254	960	685	1,680	460	24

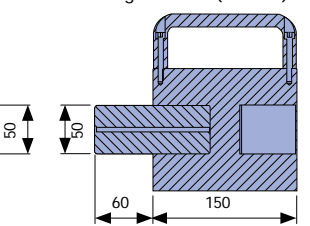
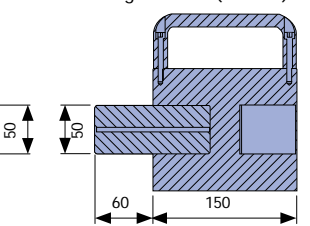
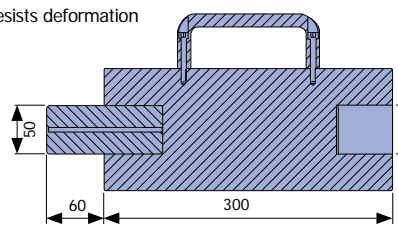
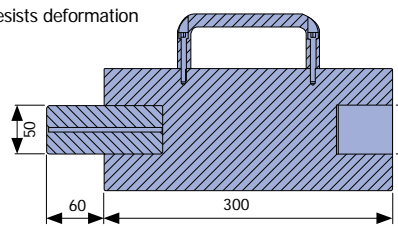
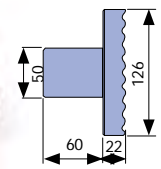
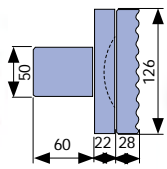
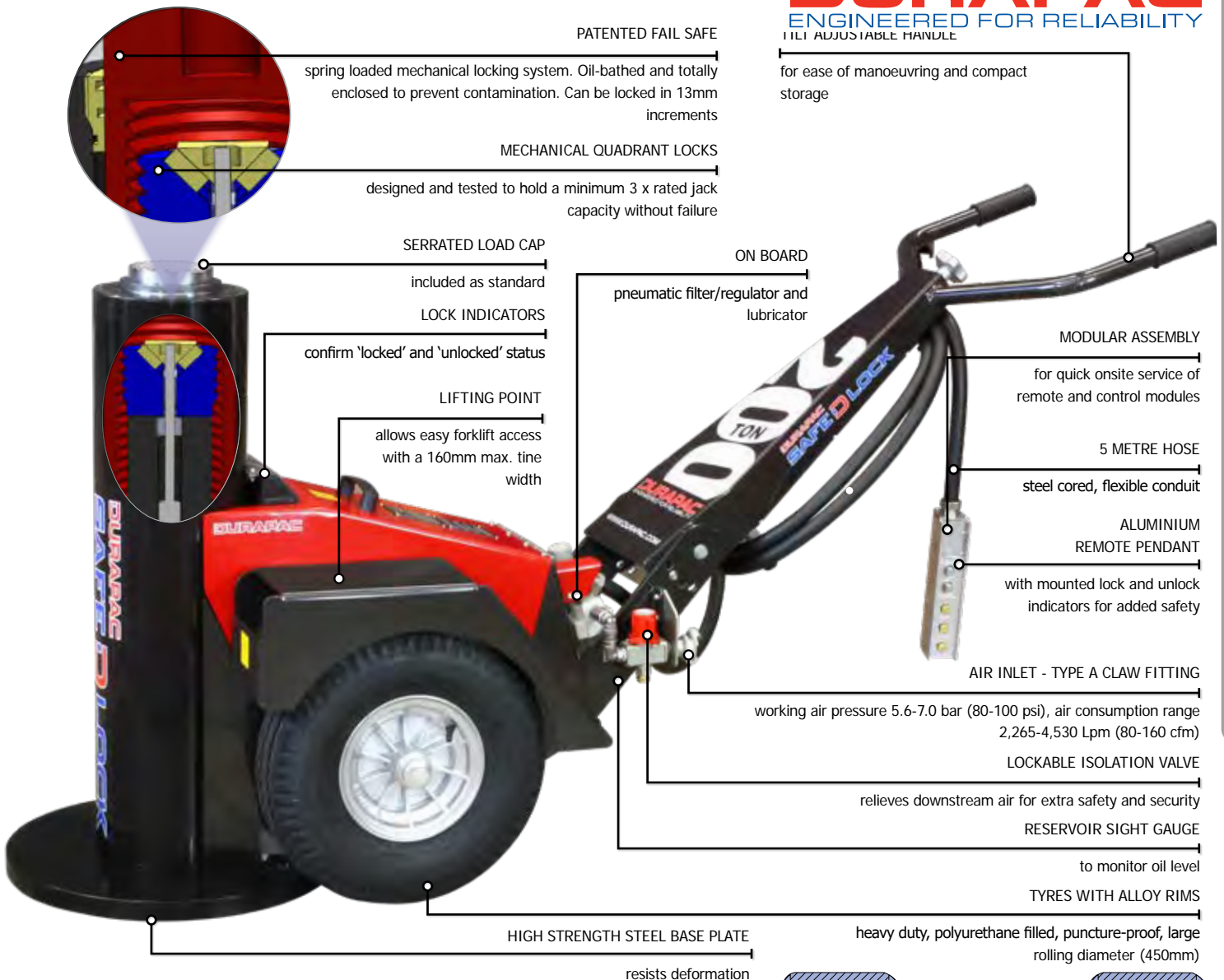
\* Nominal Cylinder Capacity in ton - see kN values for actual capacity \*\* Includes load cap height of 22 mm

\*\*\* Maximum lift height for AS/NZS 2538:2004 Vehicle Support Stand Rating

Model Number	A	B
	Collapsed Height (mm)	Base Plate Diameter (mm)
<b>SDL-07068</b>	680	505
<b>SDL-07081</b>	812	505
<b>SDL-10068</b>	680	505
<b>SDL-10081</b>	812	505
<b>SDL-15068</b>	680	460
<b>SDL-15096</b>	960	520



**DURAPAC**  
ENGINEERED FOR RELIABILITY  
FULLY ADJUSTABLE HANDLE



**SDS TILT SADDLE**

**SDLC LOAD CAP**

**EXTENSION 300mm**

**EXTENSION 150mm**

Model Number	Capacity (Tons)	Description	Height (mm)	Diameter (mm) 'A'	Total Length (mm)	Spigot Depth (mm)	Spigot Diameter (mm)	Weight (kg)
<b>SDE100-150</b>	70/100	150mm Extension**	150	112	210	60	50	7.0
<b>SDE100-300</b>	70/100	300mm Extension**	300	112	360	60	50	13.0
<b>SDLC-100</b>	70/100	Serrated Steel Load Cap*	22	112	82	60	50	3.0
<b>SDS-100</b>	70/100	Serrated Tilt Saddle**	50	112	110	60	50	5.0
<b>SDE150-150</b>	150	150mm Extension**	150	126	210	60	50	7.0
<b>SDE150-300</b>	150	300mm Extension**	300	126	360	60	50	13.0
<b>SDLC-150</b>	150	Serrated Steel Load Cap*	22	126	82	60	50	3.0
<b>SDS-150</b>	150	Serrated Tilt Saddle**	50	126	110	60	50	5.0

\* Supplied as standard \*\* Optional item

TRACK JACKS & WAGON STABILISERS

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**MECHANICAL TRUCK/CARRIAGE JACK(MADE IN USA)**

**STABILISER JACK WITH SPIN TOP SCREW (MODEL NO. 4013-01-S)**

This stabiliser is designed to provide proper support for railcars during maintenance or unloading. Use four stabilizers per railcar—one at each end and at designated jacking or lifting points. Before installation, ensure the railcar is braked and chocked. During unloading, monitor the stabilizer's contact with the car body, as the car may rise as it lightens.

**ADJUSTABLE HEIGHT TRAILER STABILISER JACK (MODEL NO. 4013-13)**

Ensure stability by always using two stabilisers at the front of a trailer. A single stabiliser at the center cannot prevent side-tipping, as it acts as a fulcrum if either leg gives way.



**Aldon® GUARDIAN™ Trailer Stabilisers** are designed solely for use in supporting front end of semi-trailers.

**GUARDIAN® TRAILER STABILISER ALUMINUM (MODEL NO. 4013-15)**

A New Concept in Trailer Stabilization. This innovative stabiliser eliminates the need for a ratchet screw. Instead of adjusting the stabiliser to the trailer's height, use the trailer's landing leg handle to position the trailer to the stabilizers. Designed for efficiency, this stabiliser fits most trailers with a standard height of 1168 mm above the pavement. The fixed height of 1143 mm ensures easy placement under the trailer nose. Fine adjustments to the trailer's height can be achieved using the landing leg handle.



**MECHANICAL TRUCK/CARRIAGE JACK (MADE IN USA)**

TRACK JACKS & WAGON STABILISERS



**SPECIFICATIONS**

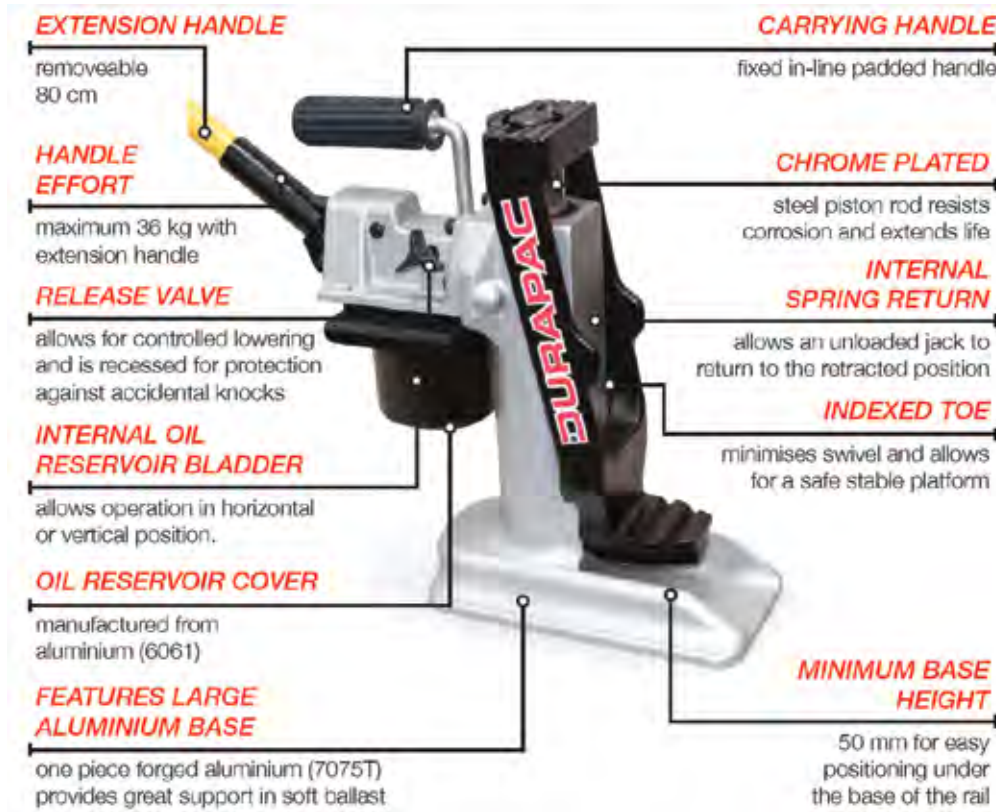
Model No.	Pic Ref #	Description	Tested Load Capacity* (Tonne)	Height (mm)	Top (mm)	Base (mm)	Weight (kg)
<b>4013-01-S</b>	1	Stabiliser Jack with Spin Top Screw	34.0	1220 - 1372	127	356	TBA
<b>4013-13</b>	2	Adjustable-Height Screw Jack	33.0	1067 - 1168	127	356	32.7
<b>4013-15</b>	3	Fixed-Height Screw Jack	34.0	1143	127	356	TBA

\* Load Capacity based on actual vertical loading. Load test reports available upon request. **Be careful when comparing capacity claims between different brands of trailer jacks. The true measure of strength in a jack is its tested load bearing capacity.**

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HYDRAULIC TRACK JACK

**DURAPAC**  
ENGINEERED FOR RELIABILITY



**Did you know...**

Durapac DRJ-10 has an accessory anchor point that is located in the top of the jack.





**HYDRAULIC TRACK JACK**

**MODEL NO. DRJ-10 & DRJ-15**



SUITED for ALIGNING, GAUGING and LIFTING OF RAIL or SLEEPERS.

Utilising a forged aluminium upright base both model jacks have been designed to be robust, lightweight and reduce the risk of operator injury. Both models have a spring return mechanism that will allow the jack with no load to be returned to the retracted position. These jacks are fitted with an internal safety pressure relief valve to protect against overloading. The bladder system inside the aluminium protected reservoir allows the jacks to be used in both the horizontal and vertical positions making them exceptionally versatile.



**DRJ-10**

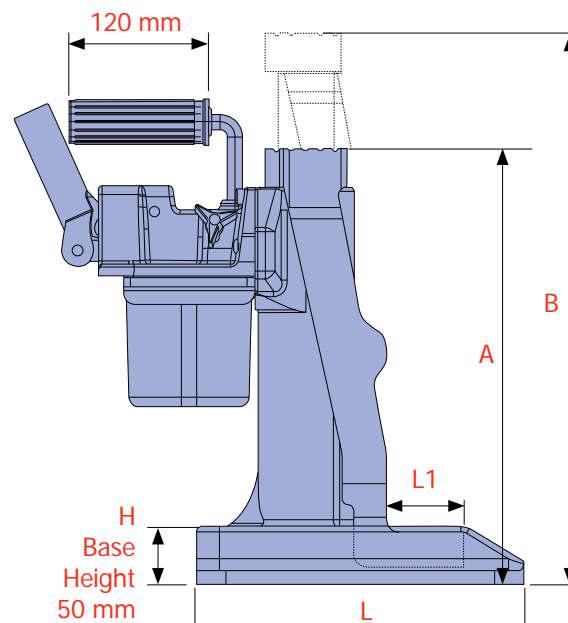
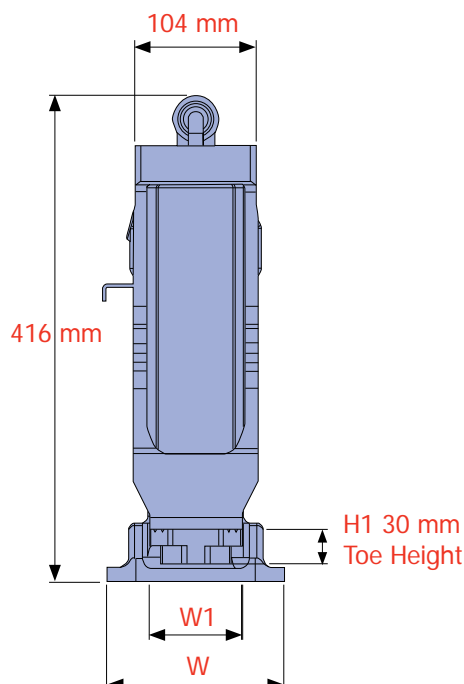


**DRJ-15**

**QUICK RELEASE**  
for fast retraction speed

**SPECIFICATIONS**

Model No.	Capacity		A		B		Travel/ Pump Stroke (mm)	L x W x H Base Dimensions (mm)	L1 x W1 x H1 Toe Dimensions (mm)	Weight without Handle (kg)
	(ton)	(kg)	Collapsed Height (mm)	Stroke (mm)	Extended Height (mm)	Stroke (mm)				
<b>DRJ-10</b>	10	9,072	373	225	598	4.5	280 x 152 x 50	66 x 79 x 30	20.2	
<b>DRJ-15</b>	15	15,000	400	220	620	4.1	250 x 160 x 53	64 x 95 x 60	20.1	

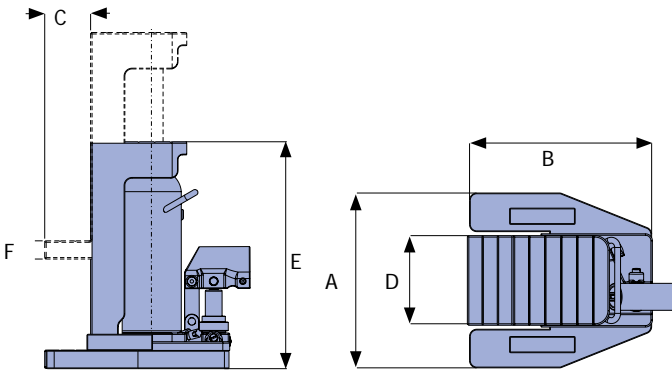


**MODEL NO. DTJ SERIES**

The DTJ-Series toe jacks are a premium range ideally suited for lifting heavy machinery or equipment when access height is restricted.

Toe lift capacities range from 2.5-25 ton and all models feature a keyed toe with spring return piston.

**DURAPAC**  
ENGINEERED FOR RELIABILITY



**CHROME PLATED**

steel piston rod resists corrosion and extends life

**DOVETAIL DESIGN**

for perfect alignment of toe during lift (25 ton jack does not have dove tail design)

**EASE OF USE**

all jacks have been designed for ease of use and handling

**CARBON STEEL BASE**

is welded to ensure increased resistance to high pressure and provide greater durability

**OPERATING HANDLE**

included with all models

**360° ROTATING**

pump handle on models 2.5-15 ton

**INTERNAL STROKE LIMITER**

prevents piston rod over-extension

**LIFTING TOE**

manufactured from high strength alloy steel



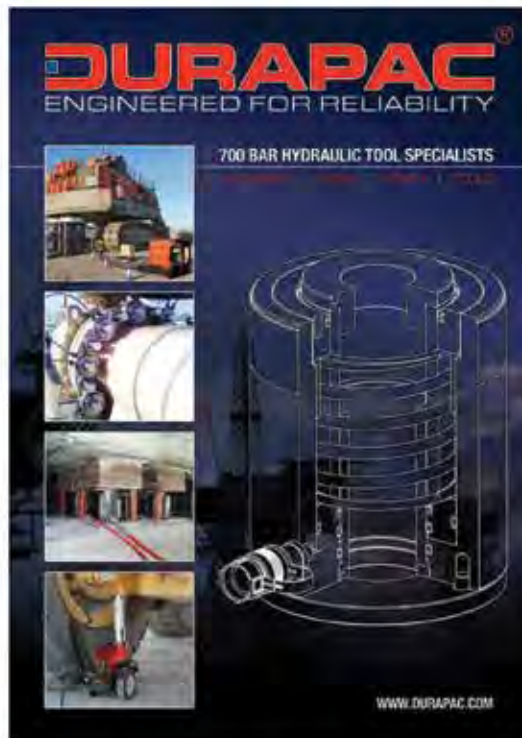
**SPECIFICATIONS**

Model No.	Jack Capacity ton* / kN	A Jack Width (mm)	B Jack Depth (mm)	C Toe Length (mm)	D Toe Width (mm)	E Collapsed Height (mm)	F Min. Toe Height (mm)	Stroke (mm)	Weight (kg)
<b>DTJ-2.5</b>	2.5 24.5	126	233	60	50	232	19	110	11.6
<b>DTJ-5</b>	5 49.0	182	259	60	75	282	22	130	22.0
<b>DTJ-10</b>	10 98.0	215	275	63	85	320	28	140	32.0
<b>DTJ-15</b>	15 147.0	238	297	60	85	328	30	140	42.0
<b>DTJ-25</b>	25 245.1	320	368	60	125	364	34	150	100.0

\* Nominal Jack Capacity in ton - see kN values for actual capacity

# DURAPAC CATALOGUE

- Specialty Lifting System
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- Air Hydraulic Power Units
- Diesel Power Units
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**HYDRAULIC TRACK JACK (MADE IN UNITED KINGDOM)**

Zwicky track jacks have been used by maintenance teams throughout the world for over 70 years, and have acquired a well-earned reputation for being the most durable and effective jack of its type on the market.

The 805BR Toe Jack heads up the range with a capacity of 8 tonnes whilst the F1054 Pan Jack is capable of 10 tonnes. Despite the Pan Jack's low closed height of 95 mm, it boasts a 101mm lift, thanks to its telescopic hydraulic ram. Both jacks, like their 20 tonne F1527 big brother, are obstructionless.

The obstructionless Zwicky SB7417 Track Aligner has a unique product design that is used for the aligning and slewing of track, points and crossings. All models are fitted with an overload safety valve. It features a swivel head which allows it to be positioned against the web of any rail including flat bottom rails.

Standard paint finish is hammered blue - alternative colour coding is available upon request. All models are available with either standard operating levers or insulated, which are specifically designed for third rail applications.



805BR	F1527	F1054	SB7417
Toe Jack	Toe Jack	Pan Jack	Track Aligner (Aluminium Base Needs to be Anchored in Ballast)

**FEATURES**

- Overload safety valve
- Tested to 25% over rated capacity
- Obstructionless

**SPECIFICATIONS**

Model No.	Type	Main Purpose / Use	Suits Rail	WLL on Head (kg)	WLL on Toe (kg)	Closed Height (mm)	Toe to Head (mm)	Stroke (mm)	Unit Wt (w/o handle) (kg)
<b>805BR</b>	Toe Jack	Under rail without removal of ballast	42kg & Over	8	5	235 (Head) 95 (Toe)	140	90	18.5
<b>F1527</b>	Toe Jack	Switches & Crossings	42kg Rail & Over	20	15	343 (Head) 191 (Toe)	152	110	36.0
<b>F1054</b>	Pan Jack	Under rail without removal of ballast, Telescopic Ram	-	10	-	95	-	101	16.5
<b>SB7417</b>	Track Aligner	Aligning and slewing of track, points and crossings, Swivel Head	-	8	-	-	-	152	24.2

**HYDRAULIC TRACK JACK (MADE IN UNITED KINGDOM)**



Model No	<b>RB/BR/054</b>	<b>RB/BR/055</b>
Description	A standard lever to suit all Zwicky hydraulic track jack models	An insulated lever designed for use with third rail applications and with high voltage resistance. Suits all Zwicky hydraulic track jack models
Material	Steel, Zinc Plated	Fibre Glass / Steel
Weight (Kg)	3.2	2.5



**A Standard Lever is Supplied with Each Jack or Aligner.  
 Insulated Lever Available Upon Request.**

TRACK JACKS & WAGON STABILISERS

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**KEVLAR® POWER LIFT AIR BAGS**

The KPL-Series high-pressure air bags feature Kevlar® cord reinforcing. The patented construction utilises state-of-the-art design for long life and ease of use.

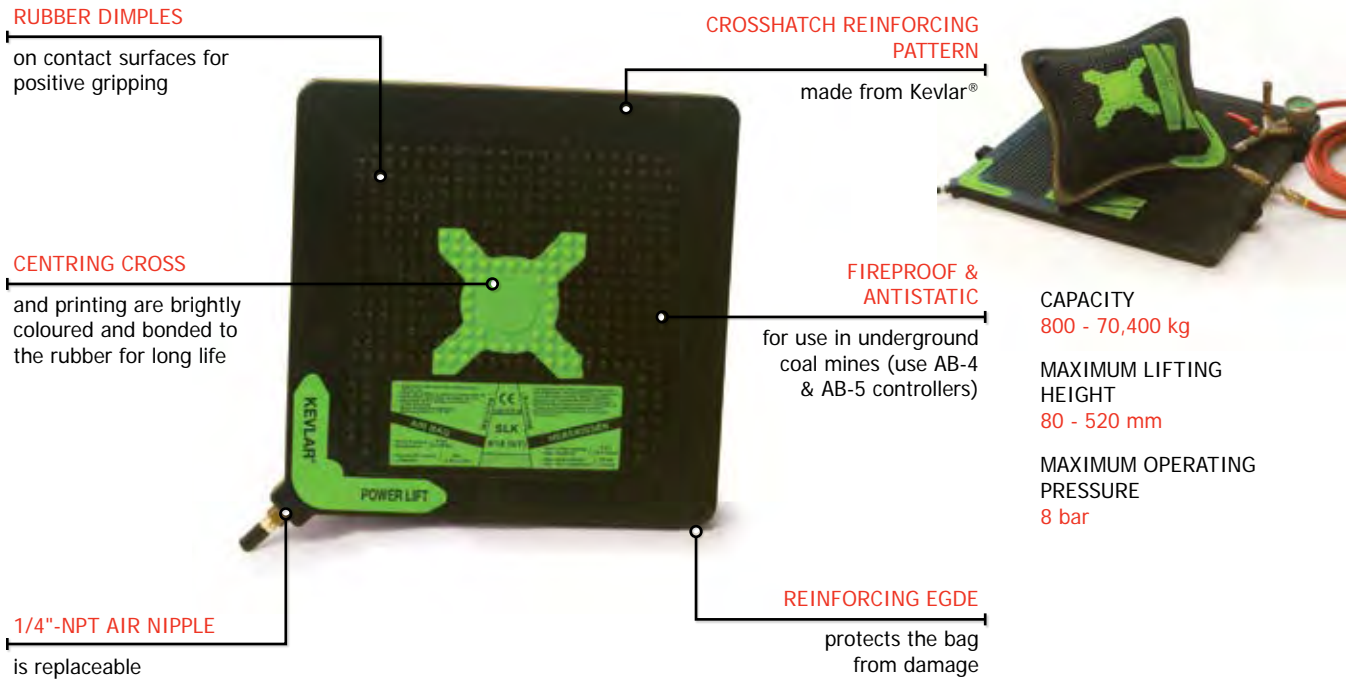
Metal parts are solid brass. The bags are thin, light and simple to use. Two bags can be stacked safely on top of each other thanks to the special dimpled surface. Eleven models of air bag are available with lifting capacities ranging from 1,000 to 65,900 kg.



Did you know...  
That you can use two air bags stacked on top of each other to increase the lifting height?



**KEVLAR® POWER LIFT AIR BAGS**

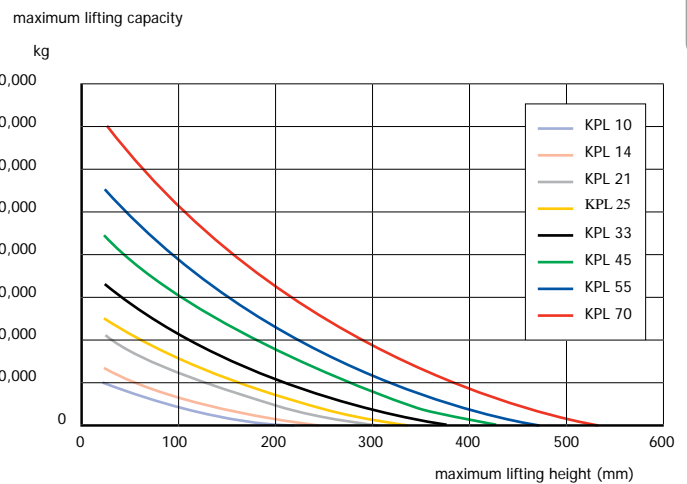
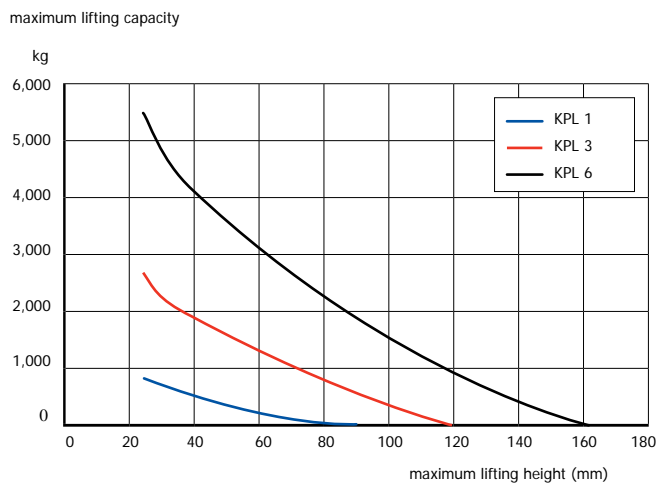


**CAPACITY**  
800 - 70,400 kg

**MAXIMUM LIFTING HEIGHT**  
80 - 520 mm

**MAXIMUM OPERATING PRESSURE**  
8 bar

**LIFTING CAPACITY VS LIFTING HEIGHT GRAPH**



Model No.	Max. Lifting Capacity (kg)	Max. Lifting Height (mm)	Thickness (mm)	Insertion Height (mm)	Dimensions (cm x cm)	Max. Air Requirement (L)	Max. Inflation Pressure (bar)	Min. Burst Pressure (bar)	Weight (kg)
<b>KPL 1</b>	800	80	25	26	15 x 15	5	8	32	0.55
<b>KPL 3</b>	2,700	130	25	26	22.5 x 22.5	15	8	32	1.25
<b>KPL 6</b>	5,500	160	25	26	30 x 30	42	8	32	2
<b>KPL 10</b>	10,100	210	25	26	38 x 38	86	8	32	3.5
<b>KPL 14</b>	13,500	250	25	26	45 x 45	152	8	32	5
<b>KPL 21</b>	21,100	300	25	26	55 x 55	296	8	32	7
<b>KPL 25</b>	25,200	340	25	26	61 x 61	416	8	32	9
<b>KPL 33</b>	33,000	380	25	26	69 x 69	621	8	32	11
<b>KPL 45</b>	44,600	420	25	26	78 x 78	921	8	32	14
<b>KPL 55</b>	55,000	470	25	26	87 x 87	1,305	8	32	18
<b>KPL 70</b>	70,400	520	25	26	94.5 x 94.5	1,505	8	32	22.5

**SAFETY CONTROLLERS AND ACCESSORIES ALLOW THE EFFICIENT AND SAFE USE OF THE KPL-SERIES AIR BAGS.**

Single and dual deadman controllers with pressure gauge and pressure relief valves offer maximum air bag inflation and deflation control, while single and dual safety controllers offer a cost effective and reliable air bag control solution. Hoses, connectors, shut-off valves and pressure regulators allow maximum flexibility in the air bag system.

**ABHR-5, ABHB-5, ABHY-5 5M RED/BLUE/YELLOW ABHR-10, ABHB-10, ABHY-10 10M RED/BLUE/YELLOW**  
 Hoses - available in 5/10m in RED/BLUE/YELLOW with male and female air coupler fitted.



**AB-1**  
 Single Deadman Controller - with pressure relief valve and pressure gauge. Controls one air bag.

**AB-2**  
 Dual Deadman Controller - with pressure relief valves and pressure gauges. Controls two air bags from one air source.

**AB-3**  
 Deluxe Dual Deadman Controller - with built-in pressure relief valves and pressure gauges and pressure sensitive toggle controls. For precise inflation and deflation of two air bags.

**AB-4**  
 Single Safety Controller - with pressure relief valve and pressure gauge. For inflation and deflation of one air bag.

**AB-5**  
 Dual Safety Controller - with pressure relief valves and pressure gauges. For inflation and deflation of two air bags.

**ABC-1Y**  
 Y-Connector - connector allows control of two bags with one controller.

**ABCR-1**  
 Pressure Regulator Controller - diaphragm type single stage regulator suits high pressure air tanks.

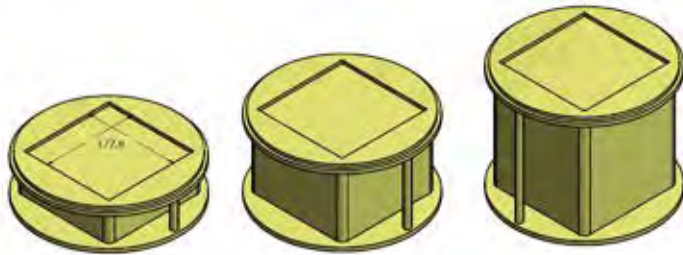
**ABV-1**  
 Inline Shutoff Valve - with 0.5 metre whip hose

**ABV-2**  
 Inline Shutoff Valve - with relief valve



**STEEL CRIB KIT MODEL NO. 15002**

- Steel cribbing is durable - will not bend or warp
- Model 15002 is a complete set. It includes one each of 76.2, 152.4 and 228.6mm stands
- Units can be nested together for 457mm total height
- Recessed area on cribbing fits 177.8mm square plate on 50 tonne cylinders
- Each units contains carrying handle



Stacking Examples

Model No	Capacity (Tonne)	Kit Contents	Weight (kg)
<b>15002</b>	90	1 x 15012, 1 x 15022, 1 x 15032	63.9

**15002 KIT CONTENTS**

Model No.	Height (mm)	Width (mm)	Recess Area (mm)	Weight (kg)
<b>15012</b>	76.2	304.8	177.8 x 177.8	17.2
<b>15022</b>	152.4	304.8	177.8 x 177.8	21.3
<b>15032</b>	228.6	304.8	177.8 x 177.8	25.4

**SUPER STACKER CRIBBING BLOCK KIT MODEL NO. 15255**

- Certified and Tested
- Multiple sizes, shapes fit most applications
- Interlocking or aggressive non-slip surface
- Non-conducting plastic resists oil and most chemicals
- Does not splinter, like wood
- Carrying lanyards provided on all crib blocks
- Made from 100% recycled plastic
- Can be used with Lincoln log mating or pyramid mating
- Industrial Kit is ideal for use up to 77 tonnes (Can be rated up to 135,000 kg, depending on configuration)



Model No.	Capacity (Tonne)	Kit Contents	Weight (kg)
<b>15255</b>	77	3 x 15210, 6 x 15230, 1 x 14465	50.0

**15255 INDUSTRIAL KIT CONTENTS**

Model No.	Qty in Kit	Dimensions LxWxH (mm)	Colour
<b>15210</b>	3	101.6 x 101.6 x 457.2	Black
<b>15230</b>	6	152.4 x 177.8 x 609.6	Black
<b>14465</b>	1	305.0 x 305.0 x 38.10	Black



SCAN & PLAY

14465 Jack Plate



Larger Capacity Block Kits Available on Request



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

**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/m <sup>2</sup> Copper wire – mmOD	Weight	End view	Spare Jaw Model No.	Weight (kg)
<b>HA-250</b>	Mini	233	4	0.33		N/A	N/A
<b>HA-300</b>		315	5	0.72		<b>HAJ-300</b>	0.26
<b>HA-350</b>		365	6	0.95		<b>HAJ-350</b>	0.36
<b>HA-450</b>		480	7	1.50		<b>HAJ-450</b>	0.58
<b>HA-600</b>		Standard	625	10	2.50		<b>HAJ-600</b>
<b>HA-750</b>	770		13	3.80		<b>HAJ-750</b>	1.40
<b>HA-900</b>	930		16	5.90		<b>HAJ-900</b>	2.10
<b>HA-1050</b>	1080		18	8.60		<b>HAJ-1050</b>	3.10
<b>HA-600BB</b>	Bench	540	10	5.00		<b>HAJ-600</b>	1.00



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



Wire Rope Cutter – Hand	Cable Cutter – Hand	Wire Rope Cutter – Hand	Wire Rope Swager - Bench	Wire Rope Swagers – Hand
<b>RC-8</b>	<b>RC-SERIES</b>	<b>KC-SERIES</b>	<b>WR-10BB</b>	<b>HSC-SERIES</b>
Single 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	Blade Weight (kg)
<b>RC-8</b>		195	5	0.3	<b>N/A</b>	N/A
<b>RC-450</b>	Wire Rope Cutter	470	12	1.5	<b>RCJ-450</b>	0.5
<b>RC-800</b>		800	16	3.9	<b>RCJ-800</b>	1.3
<b>KC-450</b>	Cable Cutter (Cu/Al)*	475	25	1.4	<b>KCJ-450</b>	0.5
<b>KC-800</b>		810	50	3.6	<b>KCJ-800</b>	1.0
<b>WR-6</b>	Wire Rope Cutter	350	6	0.9	<b>WRJ-6</b>	0.3
<b>WR-10</b>		590	10	2.3	<b>WRJ-10</b>	0.7
<b>WR-14</b>		750	14	3.6	<b>WRJ-14</b>	1.2
<b>WR-16</b>		900	16	5.3	<b>WRJ-16</b>	1.6
<b>WR-20</b>		1066	20	8.2	<b>WRJ-20</b>	2.7
<b>WR-10BB</b>	Bench Wire Rope Cutter	540	10	5.0	<b>N/A</b>	N/A
<b>HSC-350</b>	Wire Rope Swager/Cutter <sup>1</sup>	350	1.5–3.5	1.1	<b>N/A</b>	N/A
<b>HSC-600</b>		600	1.5–5.0	2.5	<b>N/A</b>	N/A
<b>HSC-600BB</b>		540	1.5–5.0	5.2	<b>N/A</b>	N/A
<b>HS-1000</b>	Wire Rope Swager**	1010	6.0-8.0	7.5	<b>N/A</b>	N/A

All Blades are drop forged and tempered.

\* Not for cutting wire rope

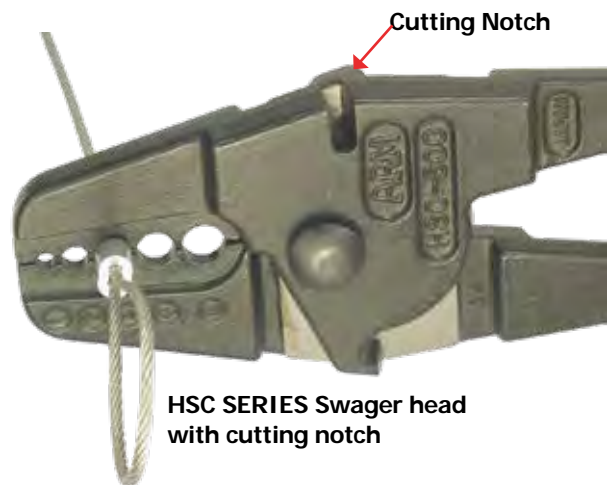
\*\* No cutting function

1 Do not use any other sleeves with ARM Swaging tools, contact your nearest Specialised Force branch for Swage information

More models available upon request.



'WR' Cutting Head shown with notched blade



HSC SERIES Swager head with cutting notch

**REFER ELECTRICAL CATALOGUE FOR ARM SWAGING SLEEVE AND TOOL TECHNICAL INFORMATION**

ELECTRICAL, WINCHES, STRINGING & CABLE LAYING

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**SWAGER, BATTERY HYDRAULIC & SLEEVES (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).



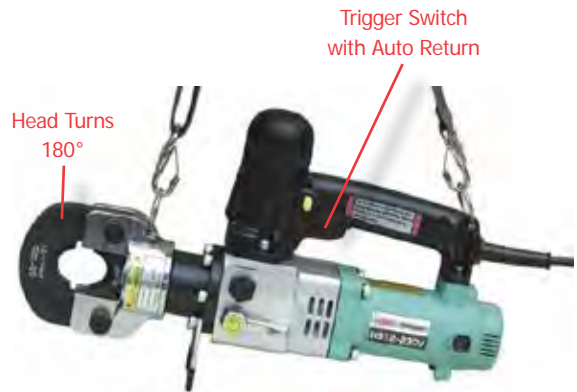
Model No.	<b>HS12-LI230</b>
Battery Voltage (VDC)	25.2V
Battery Type	LI-Ion 4.0 AH
Output Force (ton)	10
Size (mm) L x W x H	355 x 90 x 350
Swaging Speed (sec)	7
Charging Time (min)	120
Accessories (Included in kit)	Tool, 1 x Battery, 230VAC Charger, Check Gauge, RC-450 Cutter, Die Removing Tool, Operating Instruction Scan Code in the Case & Carry Case



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**MODEL NO. HS12-230V ELECTRIC HYDRAULIC SWAGER (MADE IN JAPAN)**

Model No.	<b>HS12-230V</b>
Swaging Capacity (mm)	6 – 12mm Wire Rope
Voltage (VAC)	230
Output Force (ton)	11
Tool Weight (kg)	7.5
Gross Weight (kg)	18
Dimensions (mm)	433 x 104 x 243 (LxWxH)
Swaging Speed (sec)	18
Accessories	4 set dies, RC450 Wire Rope Cutter, Screw Driver (For Replacing Dies), Shoulder Strap, Carry Case & Check Gauge



**REFER TO SPECIALIZED FORCE REPRESENTATIVE FOR ARM SWAGING SLEEVE AND ADDITIONAL TOOL TECHNICAL INFORMATION**

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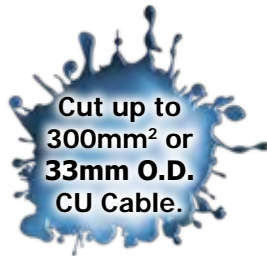


**MODEL NO. IZ-325A (MADE IN JAPAN)**

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.

**FEATURES**

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



**TOOL SPECIFICATION**

Length (mm)	260
Weight (kg)	0.61

**CUTTING SPECIFICATION**

Cutting Capacity		
Material	(mm <sup>2</sup> )	mm O.D.
Polyethylene cable	600V-CV325	31
	600V-CV60 x 3 core	32
Multi-core vinyl insulation cable	VVR 60 x 3 core	33
	IV325	29

Cutting capacity for Non-ferrous cables only.



**MODEL No. 31291 & 12629 (MADE IN USA)**



Model No. 31291

- Easily cuts heavier copper and aluminium cables up to 70 mm<sup>2</sup>
- 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. 12629



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 <sup>2</sup>	70mm <sup>2</sup>
Freq Use	35mm <sup>2</sup>	35mm <sup>2</sup>
Aluminium		
Max Use Capacity CU	70mm <sup>2</sup>	70mm <sup>2</sup>
Communications		
Max Use Capacity	100 Pair	100 Pair
Length (mm)	235	235
Weight (kg)	0.45	0.45

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## RATCHET CABLE CUTTERS (MADE IN USA)

### MODEL NO. 34081 (756)



The Greenlee 34081 (756) Heavy-Duty Ratchet Cable Cutter with Rubber Boot. Cuts copper and aluminium up to 800 mm<sup>2</sup>.

#### FEATURES

- Extra thick blades, ground flat to reduce potential for breakage
- Ratchet action allows linemen to make heavy-duty cuts
- Cable cutters feature two cutting actions - fast scissor cutting for small cable and insulation
- Converts automatically to ratchet mode
- Anti-slip mechanism for positive ratchet action
- Rubber boot protects ratchet mechanism

#### TOOL SPECIFICATION

Model No.	<b>34081 (756)</b>
Type	Heavy Duty Ratchet Cutter
Jaw Size	51mm
Overall Length	698mm
Replacement Part	34188 Cutter Head Unit (Includes 2 Blades)
Weight	5.2 kg

#### CUTTING SPECIFICATION

AL/CU	800mm <sup>2</sup> (Max. Use) 500mm <sup>2</sup> (Frequent Use)
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### MODEL NO. 34084 (757)



The Greenlee 34084 (757) Hand Ratchet ACSR Cable Cutter. Cuts ACSR up to 24.8mm O.D.

#### FEATURES

- Extra thick blades, ground flat to reduce potential for breakage
- Ratchet action allows linemen to make heavy-duty cuts
- Cable cutters feature two cutting actions - fast scissor cutting for small cable and insulation
- Converts automatically to ratchet mode
- Anti-slip mechanism for positive ratchet action
- Rubber boot protects ratchet mechanism

#### TOOL SPECIFICATION

Model No.	<b>34084 (757)</b>
Type	Ratchet ACSR Cable Cutter
Jaw Size	30mm
Overall Length	743mm
Replacement Part	34187 Cutter Head Unit (Includes 2 Blades)
Weight	5.5 kg

#### CUTTING SPECIFICATION

ACSR	24.8mm O.D.
Soft Steel Rod	12.7mm O.D.



**HAND HYDRAULIC CUTTERS (MADE IN JAPAN)**



**MODEL NO. S SERIES**

Hand operated hydraulic cutters for cables, conductors and many capable of steel up to Rebar. These guillotine style cutting heads jam less than scissor shear type cutters and have spring return rams. The blades are easily replaceable and the head is a snap lock spring release on smaller models and lock pin type on larger capacity heads.



Cutters supplied with case

**FEATURES**

- Easy to replace blade
- Spring return ram
- Some models feature safety relief valve
- Some models feature two stage pumping
- Swivel head (excluding suffix CC/CC1)
- Models with suffix CC & CC1 have special anvil shape blades for solid material
- Rubber grip handles
- Quality ISO9001

**SPECIFICATIONS**

Model No.	Latch	Cuts Max	Pump Stages	Max Ø (mm)	Cu	Al	ACSR	Guy Wire*	Wire Rope	Soft Steel	ReBar (400 to 500 Mpa)	Rebar (650Mpa)	Chain (Gr80)	Comms	Weight (kg)
<b>S-200</b>	Snap	Rebar	1	20	20	20	20	16	16-20	16	13	10	-	20	3.0
<b>S-240</b>	Snap	Rebar	1	24	24	24	24	20	18-24	16	20	12.4	-	24	4.9
<b>S-320</b>	Snap	Rebar	2	32	32	32	32	32	32	25	25	15.5	-	32	10.8
<b>S-400</b>	Pin	Rebar	2	41	41	41	38	15-20	22-25	20	16	12.4	-	41	5.9
<b>S-550</b>	Pin	Rebar	2	54	54	54	54	15-20	25-30	22	20	13	-	54	9.3
<b>850</b>	Pin	Cu/Al	2	85	28	38	-	-	-	-	-	-	-	85	8.1
<b>S-240CC</b>	Snap	Chain	1	16	-	-	-	16	-	16	16	9	6	-	5.0
<b>S-32CC1</b>	Snap	Chain	1	25	-	-	-	20	-	19	25	15.5	12	-	10.2

\* Contact us for more detailed information on Guy Wire capacities as stranding affects capacity where range is displayed



Snap Latch



Pin Latch



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**BATTERY RATCHET SCISSOR CUTTERS (MADE IN JAPAN)**



**OVERVIEW**

The Izumi SLV Series Portable, lightweight, versatile battery hydraulic cutters are designed for easy cutting of overhead conductors, underground cables, wires, and ropes. The operation switch is easily activated, leaving your other hand free to align and maneuver the cutting material. 7 Series models feature new electronic circuit boards and improved, powerful gear reduction magnetic motors with overload protection.

**FEATURES**

- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- Ergonomic Design for One-Hand Operation
- 180-Degree Swivel Head
- Pull Pin Head Design
- LED Light to Illuminate Working Area
- Switch Lever to Change Auto Retract/Manual
- Made in Japan
- Compatible with Makita 18V Batteries
- Manufactured under ISO 9001

**STANDARD ACCESSORIES**

- Wrist Strap
- Carry Case

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>BL1850B</b>	Makita 18v 5.0Ah Battery
<b>DC18RC</b>	Makita 230V Battery Charger
<b>DM18M</b>	Makita to Milwaukee Battery Adaptor



Latch Style Head



**SLV-S24M**  
In-line Guillotine



**SLV-Y30M**  
In-line Scisso

**TOOL SPECIFICATIONS**

Kit Model No.	Ram Stroke (mm)	Blade Opening (mm)	Dimensions (mm)	Weight inc. BL1850B Battery (kg)
<b>SLV-S24M(BB)</b>	20	24	108 L x 362 H x 76 W	4.1
<b>SLV-Y30M(BB)</b>	40	30	109 L x 412 H x 76 W	3.9

**CUTTING SPECIFICATIONS**

Kit Model No.	Style	Force (kN)	Cuts	Opening Ø (mm)	Maximum Cutting Capacity for Material Type (mm)									
					Wire Rope	Guy Wire	Steel Bolt	Rebar	AL Strands	CU Strands	ACSR	AL Bar	CU Bar	
<b>SLV-S24M(BB)</b>	In-line Guillotine	87	AL/CU/ACSR	24	18	20	18	16	24	24	24	20	18	
<b>SLV-Y30M(BB)</b>	In-line Scissor	65	AL/CU/ACSR	30	-	-	-	-	20	20	14	-	-	

NOTE: For special cables or conductors contact Specialised Force and we can suggest most suitable models. To order complete kits including Cutter, two Batteries and 230VAC Charger - add the suffix (BB) to the "Kit Model No." shown in tables above.

**BATTERY RATCHET SCISSOR CUTTERS (MADE IN JAPAN)**



**OVERVIEW**

The Izumi S7 Series scissor ratchet-style battery cable cutters are designed for cutting both overhead and underground power cables and conductors. The scissor-style design makes it easier to access cables in tight spaces. The rocker trigger switch can be easily operated with one hand, leaving the other hand free to align and maneuver the cutting material. For added safety, the trigger includes a dead-man button to prevent accidental operation. The models feature new electronic circuit boards, improved powerful gear reduction, and brushless motors with overload protection.

**FEATURES**

- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- New Auto Reverse feature for Continuous Cutting
- The auto reverse adjust knob allows the dial to adjust the reverse distance according to the cable outer diameter (O.D.)
- LED Light to Illuminate Working Area
- Ergonomic Design
- Made in Japan
- Compatible with Makita 18V Batteries
- Manufactured under ISO 9001

**STANDARD ACCESSORIES**

- Wrist Strap
- Carry Case

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>BL1850B</b>	Makita 18v 5.0Ah Battery
<b>DC18RC</b>	Makita 230V Battery Charger
<b>DM18M</b>	Makita to Milwaukee Battery Adaptor



**DC18RC**



**BL1850B**



**DM18M**



**S7-KY33M**  
Scissor Ratchet

**S7-K50YM**  
Scissor Ratchet

**TOOL SPECIFICATIONS**

Kit Model No.	Dimensions (mm)	Weight inc. BL1850B Battery (kg)
<b>S7-KY33M(BB)</b>	145 L x 365 H x 116 W	3.3
<b>S7-KY50M(BB)</b>	145 L x 380 H x 116 W	3.6

**CUTTING SPECIFICATIONS**

Kit Model No.	Style	Cuts	Opening Ø (mm)	Maximum Cutting Capacity for Material Type		
				AL	CU	ACSR
<b>S7-KY33M(BB)</b>	Scissor Ratchet	AL/CU/ACSR	<b>33</b>	33 O.D. mm	33 O.D. mm	18.6 mm
<b>S7-K50YM(BB)</b>	Scissor Ratchet	AL/CU	<b>50</b>	630mm <sup>2</sup>	500mm <sup>2</sup>	N/A

NOTE: For special cables or conductors contact Specialised Force and we can suggest most suitable models. To order complete kits including Cutter, two Batteries and 230VAC Charger - add the suffix (BB) to the "Kit Model No." shown in tables above.

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## BATTERY RATCHET CUTTERS (MADE IN JAPAN)

### OVERVIEW

The Izumi S7 Series ratchet-style battery cable cutters are designed for cutting both overhead and underground power cables and conductors. The scissor-style design makes it easier to access cables in tight spaces. The rocker trigger switch can be easily operated with one hand, leaving the other hand free to align and maneuver the cutting material. For added safety, the trigger includes a dead-man button to prevent accidental operation. The models feature new electronic circuit boards, improved powerful gear reduction, and brushless motors with overload protection.

### FEATURES

- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- New Auto Reverse feature for Continuous Cutting
- The auto reverse adjust knob allows the dial to adjust the reverse distance according to the cable outer diameter (O.D.)
- LED Light to Illuminate Working Area
- Ergonomic Design
- Made in Japan
- Compatible with Makita 18V Batteries
- Manufactured under ISO 9001

### STANDARD ACCESSORIES

- Wrist Strap
- Carry Case

### OPTIONAL ACCESSORIES

Model No.	Description
<b>BL1850B</b>	Makita 18v 5.0Ah Battery
<b>DC18RC</b>	Makita 230V Battery Charger
<b>DM18M</b>	Makita to Milwaukee Battery Adaptor



### TOOL SPECIFICATIONS

Kit Model No.	Dimensions (mm)	Weight inc. BL1850B Battery (kg)
<b>S7-K50M(BB)</b>	145 L x 318 H x 116 W	2.9
<b>S7-K65M(BB)</b>	145 L x 356 H x 116 W	3.5
<b>S7-K54ACSRM(BB)</b>	145 L x 356 H x 116 W	5.4

### CUTTING SPECIFICATIONS

Kit Model No.	Style	Cuts	Opening Ø (mm)	Maximum Cutting Capacity for Material Type			Notes
				AL	CU	ACSR	
<b>S7-K50M(BB)</b>	Ratchet	AL/CU	50	630mm <sup>2</sup>	500mm <sup>2</sup>	N/A	
<b>S7-K65M(BB)</b>	Ratchet	AL/CU	65	630mm <sup>2</sup>	630mm <sup>2</sup>	N/A	AL (4x240mm <sup>2</sup> ) CU (4x185mm <sup>2</sup> )
<b>S7-K54ACSRM(BB)</b>	Ratchet	AL/CU/ ACSR	54	630mm <sup>2</sup>	500mm <sup>2</sup>	31.5 O.D. mm	ACSR Olive AL 54/3.50 Steel 7/3.50

NOTE: For special cables or conductors contact Specialised Force and we can suggest most suitable models. To order complete kits including Cutter, two Batteries and 230VAC Charger - add the suffix (BB) to the "Kit Model No." shown in tables above.

**BATTERY HYDRAULIC CUTTERS (MADE IN JAPAN)**

**OVERVIEW**

The Izumi S7G Series pistol-style battery cable cutters are designed for cutting underground and overhead power cables or conductors. However, there are many other applications, as indicated in the tables below. The operation switch can be easily activated with one hand, leaving your other hand free to align and maneuver the cutting material. The trigger also includes a safety feature to prevent inadvertent operation.

**FEATURES**

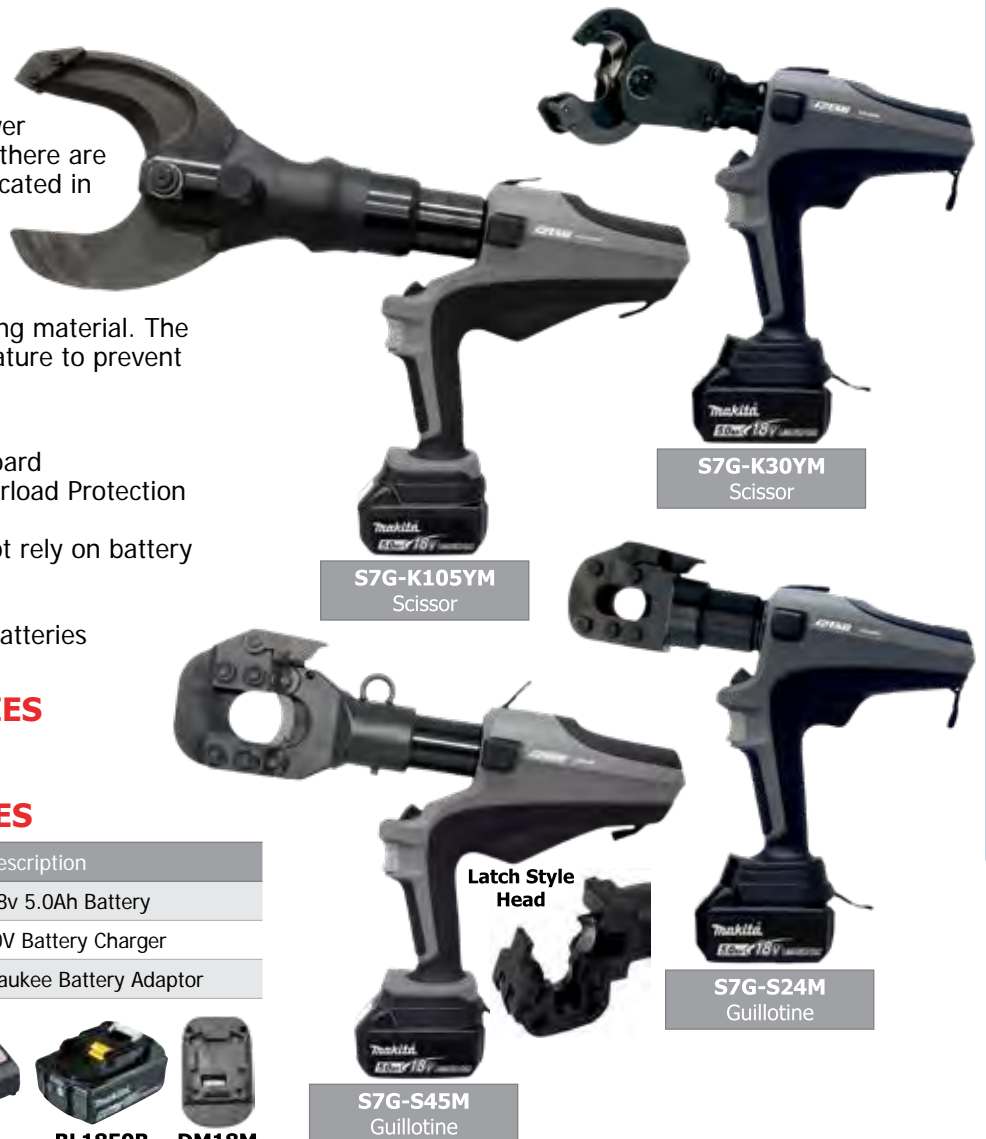
- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- 270° Swivel head
- Manual retract button does not rely on battery
- Ergonomic Design
- Made in Japan
- Compatible with Makita 18V Batteries
- Manufactured under ISO 9001

**STANDARD ACCESSORIES**

- Wrist Strap
- Carry Case

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>BL1850B</b>	Makita 18v 5.0Ah Battery
<b>DC18RC</b>	Makita 230V Battery Charger
<b>DM18M</b>	Makita to Milwaukee Battery Adaptor



**TOOL SPECIFICATIONS**

Kit Model No.	Dimensions (mm)	Weight inc. BL1850B Battery (kg)
<b>S7G-K30YM(BB)</b>	393 L x 283 H x 82 W	4.5
<b>S7G-K105YM(BB)</b>	601 L x 346 H x 92 W	8.9
<b>S7G-S45M(BB)</b>	444 L x 318 H x 92 W	6.9
<b>S7G-S24M(BB)</b>	339 L x 281 H x 82 W	5.0

**CUTTING SPECIFICATIONS**

Kit Model No.	Style	Force (kN)	Cuts	Opening Ø (mm)	Maximum Cutting Capacity for Material Type (mm)						
					Wire Rope	Guy Wire	Steel Rod/Bolt	Rebar	AL	CU	ACSR
<b>S7G-K30YM(BB)</b>	Scissor	60	AL/CU/ACSR	30	18	20	18	16	24	24	14
<b>S7G-K105YM(BB)</b>	Scissor	124	AL/CU	105	-	-	-	-	105	105	-
<b>S7G-S45M(BB)</b>	Guillotine	70	AL/CU/ACSR	45	22	16	16	-	45	45	32
<b>S7G-S24M(BB)</b>	Guillotine	85	AL/CU/ACSR	24	24	20	16	-	24	24	24

NOTE: For special cables or conductors contact Specialised Force and we can suggest most suitable models. To order complete kits including Cutter, two Batteries and 230VAC Charger - add the suffix (BB) to the "Kit Model No." shown in tables above.

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**BATTERY RATCHET CUTTERS (MADE IN JAPAN)**



**OVERVIEW**

The S7L series battery hydraulic cutters can be used for cutting a variety of sizes and types of material. The guillotine-style head cuts up to 40mm in diameter, including CU, AL, ACSR, guy wire, rebar, and wire rope. The scissor-style head cuts up to 105mm in diameter, including polyethylene power cables, multi-core vinyl insulation, and CU and AL conductors.

**FEATURES**

- Upgraded electronic circuit board
- Brushless 18V motor with overload protection
- LED Light to Illuminate Working Area
- Manual retract button does not rely on battery
- Compatible with Makita 18V Batteries
- Ergonomic Design
- Made in Japan
- Manufactured under ISO 9001

**STANDARD ACCESSORIES**

- Shoulder strap
- Carry Case

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>BL1850B</b>	Makita 18v 5.0Ah Battery
<b>DC18RC</b>	Makita 230V Battery Charger
<b>DM18M</b>	Makita to Milwaukee Battery Adaptor



**TOOL SPECIFICATIONS**

Kit Model No.	Dimensions (mm)	Weight inc. BL1850B Battery (kg)
<b>S7L-S550M(BB)</b>	556 L x 263 H x 92 W	10.4
<b>S7L-K105YM(BB)</b>	670 L x 267 H x 99 W	10.5
<b>S7L-S132M(BB)</b>	822 L x 263 H x 92 W	17.3

**CUTTING SPECIFICATIONS**

Kit Model No.	Style	Force (kN)	Cuts	Opening Ø (mm)	Maximum Cutting Capacity for Material Type (mm)				
					AL	CU	ACSR	Wire Rope	Steel Rod/Bolt
<b>S7L-S550M(BB)</b>	Lunch Box Guillotine	120	AL/CU/ACSR	54	50	50	50	30	22
<b>S7L-K105YM(BB)</b>	Lunch Box Scissor	124	AL/CU	105	105	105	-	-	-
<b>S7L-S132M(BB)</b>	Lunch Box Guillotine	135	AL/CU	132	130	100	-	-	-

NOTE: For special cables or conductors contact Specialised Force and we can suggest most suitable models. To order complete kits including Cutter, two Batteries and 230VAC Charger - add the suffix (BB) to the "Kit Model No." shown in tables above.



**MODEL No. 52136 CONTAINER SEAL/CABLE TRAY/BOLT CUTTER**



**CUTS  
IN  
4.5SEC**



- 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.

**ORDERING INFORMATION**

Model No.	Description
<b>52136</b>	Battery Bolt Cutter and 2 Batteries with 220VAC Charger & Carry Case

**CUTTING CAPACITY**

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

**REPLACEMENT PARTS**

Model No.	UPC No.	Description
<b>25752</b>		Carry Case
<b>52177</b>		18V Lithium-Ion Battery
<b>56288</b>		Cutter Blade Kit
<b>52179</b>		12V Charger
<b>52180</b>		230V Charger

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**REMOTE HYDRAULIC CUTTING HEADS (MADE IN JAPAN)**



**MODEL NO. SP & P SERIES**

Remote heads are for fast cutting action and allow remote operation manoeuvrability into tight areas. These guillotine style cutting heads jam less than scissor shear type cutters and have spring return rams. 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 snap lock spring release on smaller models and lock pin type on larger capacity heads.



**SP-20A    SP-24    SP-32    SP-40A    SP-55A    P-60    P-85    P-132**

**\*SP32CC1**

Remote heads supplied with soft case and screw type female coupling # 3050-3 standard

\* Includes cable retaining plate (SP-32CC1)

**FEATURES**

- Easy to replace blade
- Spring return ram
- Quality ISO9001

**SPECIFICATIONS**

Model No.	Latch	Max Ø (mm)	Cu	Al	ACSR	Guy Wire*	Wire Rope	Soft Steel	Rebar (400 to 500Mpa)	Rebar (650Mpa)	Comms	Hyd Pressure (bar)	W/weight (kg)
<b>SP-20A</b>	Snap	20	20	20	20	15-16	16-20	16	13	10	20	700	2.3
<b>SP-24</b>	Snap	24	24	24	24	20	18-24	20	16	12.4	24	700	3.10
<b>SP-32</b>	Snap	32	32	32	32	32	32	25	25	15.5	32	700	10.00
<b>SP-32CC1</b>	Snap	32	N/A	N/A	20	16	20	24	25	15.5	N/A	700	9.00
<b>SP-40A</b>	Pin	41	41	41	38	15-20	22-25	20	16	12.4	41	700	4.00
<b>SP-55A</b>	Pin	55	50	50	50	15-20	25-30	22	19	12.4	55	700	9.00
<b>P-85</b>	Pin	85	28**	38**	-	-	-	-	-	-	85	700	7.200
<b>P-60</b>	Pin	60	60	60	-	-	-	-	-	-	60	700	5.20
<b>P-132</b>	Pin	132	100	130	-	-	-	-	-	-	132	700	12.00

\* Contact us for more detailed information on Guy Wire capacities as stranding affects capacity where range is displayed

\*\* Will cut AL & CU strands up to 85mm OD depending on cable type. Please contact Specialised Force for more information.

**Refer page 90-91 for hydraulic pumps details**

**CR SERIES HYDRAULIC CABLE CUTTERS**



Model No. **CR-75**



Model No. **CR-100**

Model No.	Description
<b>CR-75</b>	75mm Remote Head Cable Cutter (with case)
<b>CR-100</b>	100mm Remote Head Cable Cutter (with case)
<b>CR-150C</b>	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		Output (Metric Tonnes)	Weight (Kgs)
	Bare Copper	Steel Wire Armoured (SWA)	Ug Cable			
<b>CR-75</b>	41.6		75.0		5.0	4.6
<b>CR-100</b>	41.6		100.0	100.0	11.0	13.0
<b>CR-150C</b>	✓		150.0	150.0	21.0	47.0

**NOTE: CR-150C is also capable of cutting 130mm OD Poly Ship Anchor Rope (tested under tension)**

- Refer page 81-82 for hydraulic coupling configurations and hoses, supplied standard with screw type female 3050-3 coupling
- Battery or Electric pumps, refer pages 90-91

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**NEW INLINE 18V IZUMI 7 SERIES INLINE CRIMPERS**

**OVERVIEW**

The Izumi SLV Series portable, lightweight, fully automatic, self-contained battery-operated compression tool makes it easy to access tight cable joints in narrow control panels. The control buttons can be activated with just one hand, leaving the other hand free to hold the working material.

**FEATURES**

- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- Ergonomic Design for One-Hand Operation
- 180-Degree Swivel Head
- Pull Pin Head Design
- LED Light to Illuminate Working Area
- Switch Lever to Change Auto Retract/Manual
- Made in Japan
- Compatible with Makita 18V Batteries
- Manufactured under ISO 9001

**STANDARD ACCESSORIES**

- Wrist Strap
- Carry Case

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>BL1850B</b>	Makita 18v 5.0Ah Battery
<b>DC18RC</b>	Makita 230V Battery Charger
<b>DM18M</b>	Makita to Milwaukee Battery Adaptor



**SPECIFICATIONS**

Kit Model No.	Style	Jaw Opening (mm)	DIES type	DIES refer to page/s	Force (Kn)	Capacity (mm <sup>2</sup> )		Dimensions (mm)	Weight inc. BL1850B Battery (kg)
						AL	CU		
<b>SLV-50M(BB)</b>	Inline Latched	13	#111	7	52	120	150	105 L x 364 H x 76 W	2.9
<b>SLV-261EM(BB)</b>	Inline Latched	15	CEMBRE	8	52	150	185	105 L x 364 H x 76 W	2.9
<b>SLV-60EM(BB)</b>	Inline Latched	18	ROUND	9	60	185	240	115 L x 415 H x 83 W	3.6
<b>SLV-630M(BB)</b>	Inline Dieless	N/A	DIELESS	N/A	61.5	10 - 240		135 L x 431 H x 76 W	4.5

NOTE: For special cables or conductors contact Specialised Force and we can suggest most suitable models. To order complete kits including Crimper, two Batteries and 230VAC Charger - add the suffix (BB) to the "Kit Model No." shown in tables above.

**A PROVEN PERFORMER 14.4V INLINE CRIMPER 12T**



**OVERVIEW**

The Izumi SL streamline series hydraulic crimpers were designed for crimping in tight spaces such as switchboards and panels or pre-existing cable termination points. They accept standard 12 tonne "C" compression dies. Despite their lightweight "in-line" compact design, their performance is still equivalent to that of the pistol style Series 6 tools. The number of times crimping can be completed has increased with the inclusion of 4.0 AH BP-84LI batteries.

**FEATURES**

- The SL-510 is the latched head version of the SL-C510
- Compress conductors up to 400mm<sup>2</sup>
- Rapid ram advance mechanism
- Right or left handed operation
- 180° swivel head (SL-C510)
- Manufactured under ISO 9001
- 14.4VDC 4.0Ah Lithium-Ion Batteries with press charge indicator
- 12/24VDC-230VAC charger included ("CC" kit models)
- Sliding pin with lock function prevents head from opening accidentally

**STANDARD ACCESSORIES**

- Wrist Strap
- Carry Case

**SPECIFICATION**

Kit Model No.	<b>SL-C510(CC)</b>
Style	In-Line
Head Type	C
Jaw Opening	42mm
Force	120 (Kn)
Capacity	Max. 300 mm AL Max. 400 mm CU
Dimensions (mm)	521 L x 150 H x 101 W
Reservoir Capacity	153 (cc)
Wt Inc Battery	7.3 (kg)

**COMPATIBLE DIES REFER TO PAGES 10 - 13**

- 12T Dies 6.0-400mm<sup>2</sup> CU
- 12T Dies 6.0-300mm<sup>2</sup> AL

**ORDERING INFORMATION**

Model No.	Description
<b>BP-84LI</b>	1 x Battery Only
<b>CH-120</b>	1 x Charging Base, 1 x DC Charge Adaptor 12/24VDC 1 x AC Charge Adaptor 230VAC
<b>SL-C510</b>	In-Line Battery Powered Compression Tool only
<b>SL-C510(CC)</b>	In-Line Battery Powered Compression Tool 2 x Batteries ( <b>BP-84LI</b> ) 1 x Charger ( <b>CH-120</b> )



**SL-C510**  
Inline "C" Head

**14.4V BATTERY & 230VAC/12/24VDC CHARGER**

Battery Level LED Indicator



12/24VDC BATTERY CHARGER ADAPTOR

230V BATTERY CHARGER ADAPTOR

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**6 & 12 TONNE BATTERY HYDRAULIC CRIMPERS**



**OVERVIEW**

The S7G Series Battery Hydraulic Crimpers include a 6-tonne dieless model and two 12-tonne models designed for use with industry-standard 12-tonne dies. These tools are used for applying compression Lugs, Links, Full-Tension & Non-Tension sleeves to a variety of conductor sizes & types, including Copper (CU), Aluminium (AL), ACSR, ABC and a variety of other cables and conductors

**FEATURES**

- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- Quick release die retainer
- 270° Swivel head
- OH&S compliant - no retract pinch point
- Well balanced design suitable for overhead, underground and switchboard applications
- Manual retract button does not rely on battery
- Retract stop feature for multiple crimping
- Ergonomically designed & balanced body for operator comfort
- These tools are fitted with rubber cover to prevent accidental flashover (not rated).
- Made in Japan
- Compatible with Makita 18V Batteries
- Manufactured under ISO 9001



**S7G-C431M**  
Pistol "C" Head

**S7G-C510M**  
Pistol "C" Head

**S7G-630M**  
Pistol Dieless

**STANDARD ACCESSORIES**

- Shoulder Strap
- Carry Case

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>BL1850B</b>	Makita 18v 5.0Ah Battery
<b>DC18RC</b>	Makita 230V Battery Charger
<b>DM18M</b>	Makita to Milwaukee Battery Adaptor



**SECIFICATIONS**

Kit Model No.	Style	Jaw Opening (mm)	DIES type	DIES refer to page/s	Force (Kn)	Capacity (mm <sup>2</sup> )		Dimensions (mm)	Weight inc. BL1850B Battery (kg)
						AL	CU		
<b>S7G-C431M(BB)</b>	Pistol "C" Head	31	12T	10 -13	120	300	300	413 L x 286 H x 92 W	7.4
<b>S7G-C510M(BB)</b>	Pistol "C" Head	42	12T	10 - 13	120	300	400	436 L x 286 H x 92 W	7.8
<b>S7G-630M(BB)</b>	Pistol Dieless	18	Dieless	N/A	60	10-240		401 L x 298 H x 82 W	5.8

NOTE: For special cables or conductors contact Specialised Force and we can suggest most suitable models. To order complete kits including Crimper, two Batteries and 230VAC Charger - add the suffix (BB) to the "Kit Model No." shown in tables above.

**12 - 15 TONNE BATTERY HYDRAULIC CRIMPERS**

**OVERVIEW**

The S7L Series Battery Hydraulic Crimpers provide faster advance and retraction speeds than previous generation tools. The patent-pending Auto-Retract feature offers a user-selectable ON/OFF switch for manual or automatic retraction. The new ergonomic grip enhances comfort for both "on-ground" and "hold-on" operations. Portability and handling have been improved, and the crimper now features a larger handle opening with a rocker-type advance/retract switch located on top for convenient one-finger trigger operation. The handle opening and rocker switch are designed to accommodate gloved hands. Additionally, the tool incorporates a built-in foot base with finger indents for easier handling when using both hands.

**FEATURES**

- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- 270° Swivel head
- Manual retract button does not rely on battery
- LED Light to Illuminate Working Area
- Ergonomic Design
- Made in Japan
- Compatible with Makita 18V Batteries
- Manufactured under ISO 9001

**15T DIES**

15 Tonne Hex Die-Set Suits S7L-610M & S7L-C610M				
Model No.	mm <sup>2</sup>	A/F	Material	Crimp Width
<b>15T-26.0AFCU</b>	300	26.0	CU	10.5mm
<b>15T-28.1AFCU</b>	400	28.1	CU	8.5mm
<b>15T-31.0AFCU</b>	500	31.0	CU	7.2mm
<b>15T-37.0AFCU</b>	630	37.0	CU	6.2mm
<b>15T-39.0AFAL</b>	400/500	39.0	AL	16.5mm



**15T-PU-ADAPTOR** Accepts existing 12 tonne Standard Dies Nest/Indent & "C" connector Dies.

**STANDARD ACCESSORIES**

- Shoulder Strap
- Carry Case

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>BL1850B</b>	Makita 18v 5.0Ah Battery
<b>DC18RC</b>	Makita 230V Battery Charger
<b>DM18M</b>	Makita to Milwaukee Battery Adaptor

**SPECIFICATIONS**

Kit Model No.	Style	Force (kN)	Jaw Opening (mm)	DIES type	DIES refer to page/s	Capacity (mm <sup>2</sup> )		Dimensions (mm)	Weight inc. BL1850B Battery (kg)
						AL	CU		
<b>S7L-431M(BB)</b>	Lunch Box "C" Head	120	31	12T	10 - 13	300	300	486 L x 263 H x 92 W	7.7
<b>S7L-510M(BB)</b>	Lunch Box "C" Head	120	42	12T	10 - 13	300	400	508 L x 263 H x 92 W	8.0
<b>S7L-C610M(BB)</b>	Lunch Box "C" Head	134	50	15T	10 - 13	400/500	630	574 L x 263 H x 108 W	10.6
<b>S7L-610M(BB)</b>	Lunch Box Latched	134	50	15T	10 - 13	400/500	630	542 L x 263 H x 94 W	9.0

NOTE: For special cables or conductors contact Specialised Force and we can suggest most suitable models. To order complete kits including Crimper, two Batteries and 230VAC Charger - add the suffix (BB) to the "Kit Model No." shown in tables above.



**S7L-431M**  
Lunch Box "C" Head



**S7L-510M**  
Lunch Box "C" Head



**S7L-C610M**  
Lunch Box "C" Head



**S7L-610M**  
Lunch Box "Latched" Head



**DC18RC**



**BL1850B**



**DM18M**

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**6 & 12 TONNE BATTERY HYDRAULIC MULTITOOL**



**OVERVIEW**

The S7G Series Battery Hydraulic 12-tonne pistol-style multitool is also portable, lightweight, and ergonomically designed.

The SLV Series Battery Hydraulic 6-tonne Inline-style multitool is portable, lightweight, versatile, and ergonomically designed for one-handed operation, making it ideal for use in confined spaces.

With the right attachments (sold separately), these tools can be converted into many different tools, functioning as a cable crimper, cable cutter, angle steel puncher, threaded rod cutter, or knockout puncher.

**FEATURES**

- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- Ergonomic Design for One-Hand Operation (Inline)
- Swivel Head
- Pull Pin Head Design
- Ergonomic Design
- Made in Japan
- Compatible with Makita 18V Batteries
- Manufactured under ISO 9001

**STANDARD ACCESSORIES**

- Wrist Strap SLV Series
- Shoulder Strap S7G Series
- Carry Case

**OPTIONAL ACCESSORIES**

Model No.	Description
<b>BL1850B</b>	Makita 18v 5.0Ah Battery
<b>DC18RC</b>	Makita 230V Battery Charger
<b>DM18M</b>	Makita to Milwaukee Battery Adaptor



**SPECIFICATIONS**

Model No.	SLV-NDM	S7G-MX250M
<b>Motor</b>	Brushless 18V	Brushless 18V
<b>Force at Die Face</b>	70 kN	127 kN
<b>Head Rotation</b>	180°	275°
<b>Dimensions (mm)</b>	105 L x 374 H x 80 W	346 L x 328 H x 82 W
<b>Weight</b>	2.9 kg with BL1850B Battery (without crimp head)	4.0 kg with BL1850B Battery (without crimp head)



**S7G-MX250M**  
Pistol Multitool



**SLV-NDM**  
Inline Multitool



**Simple Spring Loaded Twist Pin Design for Changing Heads**



**CUTTING, CRIMPING & PUNCHING HEADS FOR S7G-MULTITOO**



200AT-410 12 Tonne Crimp Head	200AT-50YC Cable Cutter Attachment	200AT-13WT Threaded Rod Cutter Attachment
<ul style="list-style-type: none"> <li>Opening Between Die Faces: 17mm</li> <li>Maximum Capacity: 300mm<sup>2</sup> (AL/CU)</li> <li>Weight: 2.4kg</li> <li>Accepts existing 12-ton U-type Dies</li> <li>Refer to Page/s: 10-13 for 12T Dies</li> </ul>	<ul style="list-style-type: none"> <li>Cutting Capacity: Up to 50mm O.D. Cable (Including Insulation)</li> <li>Cuts nonferrous cables only</li> <li>Weight: 1.0kg</li> </ul>	<ul style="list-style-type: none"> <li>Cut:                             <ul style="list-style-type: none"> <li>M10 or 3/8 BSW Steel or SS Threaded Rod</li> <li>M12 or 1/2 BSW Steel or SS Threaded Rod</li> </ul> </li> <li>Includes: 13WT-07 M12 Blade Set</li> <li>Optional Blade Sets:                             <ul style="list-style-type: none"> <li>13WT-06 M10</li> <li>13WT-02 3/8 BSW</li> <li>13WT-05 1/2 BSW</li> </ul> </li> </ul>



200AT-AP18 Angle Steel Puncher Attachment	200AT-9PD Knockout Puncher Attachment
<ul style="list-style-type: none"> <li>Supplied with 3 sets of Punch Dies (Max capacity: 6mm Mild Steel):                             <ul style="list-style-type: none"> <li>10.5mm Diameter</li> <li>13.5mm Diameter</li> <li>17.5mm Diameter</li> </ul> </li> <li>Size (mm): 186 L x 130 H x 67 W</li> <li>Weight: 3.8kg</li> <li>Throat Depth: 47mm</li> <li>To Centre of Punch: 23.5mm</li> </ul>	<ul style="list-style-type: none"> <li>Punching Capacity:                             <ul style="list-style-type: none"> <li>Up to 63.5 mm diameter hole in Stainless Steel</li> <li>Up to 115.5 mm diameter hole in 3.0 mm thick Mild Steel</li> </ul> </li> <li>Punch &amp; die, Draw Studs &amp; Spacer Collars are the same as those used for SH-10</li> <li>200AT-9PD Comes with Draw Studs &amp; Spacer Collars</li> <li>Refer to SF Representative for suitable dies</li> </ul>



**ORDERING INFORMATION**

Model No.	Description	S7G-MX250M	200AT-410 Crimp Head	200AT-50YC Cutting Head	200AT-13WT Cutting Head	200AT-AP18 Punching Head	200AT-9PD Punching Head	BL1850 Makita 18v 5.0Ah Battery	DC18RC Makita 230V Battery Charger
<b>S7G-MX250M</b>	12T Tool Only	1							
<b>S7G-MX250M(BB)</b>	12T Tool with Battery & Charger	1						2	1
<b>S7G-MX250M/410(BB)</b>	12T AL/CU Crimping Tool	1	1					2	1
<b>S7G-MX250M/50YC(BB)</b>	12T Cable Cutting Tool	1		1				2	1
<b>S7G-MX250M/13WT(BB)</b>	12T Threaded Rod Cutting Tool	1			1			2	1
<b>S7G-MX250M/AP18(BB)</b>	12T Steel Puncher	1				1		2	1
<b>S7G-MX250M/9PD(BB)</b>	12T Knock out Puncher	1					1	2	1

NOTE: All Tool Combinations Supplied with Case. Contact your Nearest Specialised Force Branch to Design your Own Kit.

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**CUTTING & CRIMPING HEADS FOR SLV-MULTITOOL**



SL-6CJ 6T Crimping Jaw:	SL-CH Cutting Jaw:	SL-ACSR Cutting Jaw:	SL-GW Cutting Jaw:
Accommodates 6-ton round type dies for crimping Cu, Al, ACSR & ABC. Up to 240mm <sup>2</sup> Capacity for Al, Cu and ACSR.	For cutting Al & Cu. Cutting capacity up to 32mm OD Cu/Al (300mm <sup>2</sup> ).	For cutting ACSR. Cutting capacity up to 20mm OD ACSR (Single Steel Core).	For cutting Al, Cu & ACSR. Cutting capacity up to 14.3mm for Cu, Al & ACSR.



NOTE: Jaws are sold separately.

**CUTTING SPECIFICATIONS**

Kit Model No.	Style	Force (kN)	Cuts	Opening Ø (mm)	Maximum Cutting Capacity for Material Type (mm)*											
					Wire Rope 6x7	Wire Rope 6x12	Wire Rope 6x19	Soft Steel Bar	ReBar (400 to 500 Mpa)	Rebar (650Mpa)	AL Strands	CU Strands	ACSR	Guy Wire 1x7	Guy Wire 1x19	
<b>SLV-ND/ACSR(BB)</b>	Scissor	70	Al/Cu/ACSR	<b>21</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	14	20	N/A	N/A
<b>SLV-ND/CH(BB)</b>	Scissor	70	Al/Cu	<b>32</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32	32	N/A	N/A	N/A
<b>SLV-ND/GW(BB)</b>	Scissor	70	Al/Cu/ACSR	<b>19.5</b>	N/A	N/A	N/A	9.3	9.3	N/A	14.3	14.3	14.3	9.3	9.3	

**ORDERING INFORMATION CUTTERS**

Kit Model No.	Ram Stroke (mm)	Blade Opening (mm)	Reservoir Capacity (BB)	Dimensions (mm)	Weight Including Battery (kg)
<b>SLV-ND/ACSR (BB)</b>	-	21	45	554L x 110H x 80W	3.5
<b>SLV-ND/CH(BB)</b>	-	32	45	554L x 110H x 80W	3.5
<b>SLV-ND/GW(BB)</b>	-	19.5	45	554L x 110H x 8W	3.5

**ORDERING INFORMATION CRIMPERS**

Model No.	Description	SLV-NDM Tool Only	SL-6CJ Crimp Head	SL-CH AL/CU Cutting Head	SL-ACSR ACSR Cutting Head	SL-GW AL/CU/ACSR Cutting Head	BL1850 Makita 18v 5.0Ah Battery	DC18RC Makita 230V Battery Charger	6T-6mm Rounding Die	SL-CB Bending Tool
<b>SLV-NDM</b>	6T Tool Only	1								
<b>SLV-NDM(BB)</b>	6T Tool with Battery & Charger	1					2	1		
<b>SLV-NDM/6CJ(BB)</b>	6T Crimping Tool	1	1				2	1		
<b>SLV-NDM/CH(BB)</b>	6T AL/CU Cutting Tool	1		1			2	1		
<b>SLV-NDM/6CJ/ACSR(BB)</b>	6T Crimping & ACSR Cutting Tool	1	1		1		2	1		
<b>SLV-NDM/ACSR(BB)</b>	6T ACSR Cutting Tool	1			1		2	1		
<b>SLV-NDM/GW(BB)</b>	6T AL/CU/ACSR Cutting Tool	1				1	2	1		
<b>SLV-NDM FENCING TOOL</b>	6T Fencing Tool	1	1				2	1	1	
<b>SLV-NDM/CB(BB)</b>	6T Cable Bending Tool	1					2	1		1

NOTE: All Tool Combinations Supplied with Case. Contact your Nearest Specialised Force Branch to Design your Own Kit. Refer to Page/s: 9 for 6T Crimping Dies.

**MODEL NO. PG-610B FORCE TEST GAUGE (12-15T)**



Model No.	<b>PG-610B</b>
Specifications	Dial face up to 176 kN
Size (mm)	250 (L) x 105 (W) x 25 (D)
Wt (kg)	1.5
Included in Kit	Steel carrying case Test dies (Blank dies for EP-410)



**PG-610B** shown with **REC-3610**

**DETAILS**

Used to calibrate output force of 12 and 15 ton tools, designed to fit in all brand 12 ton tools and supplied with U type test dies. The PG-610B force test gauge can measure output force up to 15 ton.

When testing the 15 tonne tool (EP- 610HS2) the U die adapter is necessary.

The **PG-610B** comes complete with U type test dies and steel carrying case.

Applicable to check output force of most 12 and 15 tonne hydraulic; hand, battery and remote head tools that use standard 12 tonne dies.

**IMPORTANT NOTE**

**Output force adjustment of tools requires a calibrated force test gauge and appropriate tools to adjust the relief valve. Improper adjustment may result in too high or too low of inner pressure. Higher pressure may cause damage to the tool or seals. Lower pressure results in insufficient tool output causing improper connection of compressed connectors.**

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## MANUAL CRIMPER 12 TONNE



### EP-431

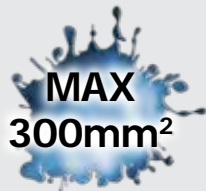


FORCE  
**12 Tonne Type**

JAW OPENING  
**31mm C-HEAD**

CAPACITY  
**300mm<sup>2</sup> Al/Cu**

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



### EP-510C

**FITTED WITH A RUBBER BOOT  
FOR ADDED ELECTRICAL  
PROTECTION**

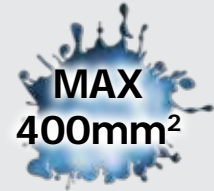


FORCE  
**12 Tonne Type**

JAW OPENING  
**42mm C-HEAD**

CAPACITY  
**300mm<sup>2</sup> AL & 400mm<sup>2</sup> CU**

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



### MODEL No. EP-431

#### INCLUDED ITEMS

12T Hand Crimper & Double moulded carrying case.

#### SPECIFICATION

Ram Stroke	31mm (Jaw opening)
Reservoir capacity	145 cc
Force at die face	106kN
Size	610 (l) x 150 (w) mm
Weight	6.3kg

#### FEATURES

The EP-431 has a standard jaw opening of 31mm and features a two stage rapid advance pumping system.

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

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

### MODEL No. EP-510C

#### INCLUDED ITEMS

12T Hand Crimper & Double moulded carrying case.

#### SPECIFICATION

Ram Stroke	42mm (Jaw opening)
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 large jaw opening and 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  
**Refer pages 191-194 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° swivel head
- Twist handle pressure release



**REMOTE HYDRAULIC CRIMPER HEADS 12-15T (MADE IN JAPAN)**



**MODEL NO. EP SERIES**

Remote heads allow fast crimping action and allow remote operation manoeuvrability into tight areas such as switch board or panel where a hand crimper or even battery tool may not be able to reach. These remote heads require an external hydraulic pump for operation. These tools were designed for applying compression fitting to copper, aluminium, and ACSR cables or conductor.



<b>EP-431H</b>	<b>EP-510HC</b>	<b>EP-H130H</b>	<b>EP-610HS2</b>
12 Tonne "C" Head Standard Jaw	12 Tonne "C" Head Large Jaw	12 Tonne "H" Style	15 Tonne Accepts 12T Dies with Adaptor

**FEATURES**

- Hard case included with die tray
- Spring return ram
- Quality ISO9001
- 700 bar hydraulic pump required to operate
- EP-610HS2 15T dies/adaptors bottom of page
- All units accept standard 12 tonne dies (EP-610HS2 requires additional 12T adaptor as standard uses 15T dies)
- Screw type female coupling # 3050-3 supplied as standard

**SPECIFICATIONS**

Model No.	Capacity (Tonne)	Style	Jaw Opening Ram Stroke (mm)	Maximum Crimp Capacity (mm <sup>2</sup> )		Hydraulic Pressure (bar)	Length (mm)	Wt (kg)
				Cu	Al			
<b>EP-431H</b>	12	"C" Standard	31	300	300	700	340	4.7
<b>EP-510HC</b>	12	"C" Large	42	400	300	700	420	5.7
<b>EP-H130H</b>	12	"H" Standard	28	300	300	700	317	4.1
<b>EP-610HS2</b>	15	"C"	50	630 400*	500 300*	700	375	7.0

\* Using 12T Die Adaptor (#15T-PU-ADAPTOR)

Refer page pages 191-194 for 12T crimp die details / Refer page 91-92 for hydraulic pumps details

**15 TONNE CRIMP DIES**

**MODEL NO. 15T SERIES**

15 tonne dies are manufactured in Australia from high tensile steel billets and heat treated to maximise strength and durability. These dies suit the Izumi 15T tools.



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

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**DIES 5 TONNE SERIES 111 (TO SUIT SLV-50M INLINE CRIMPER)**

Model No.	Dimensions Of Hex Die (mm)		Style	Application
	A/F	Crimp Length		
Copper				
<b>5T-111-5763CU/1</b>	5.7	12	2	10 mm <sup>2</sup> Cu (Lugs & Links)
	6.3			16 mm <sup>2</sup> Cu (Lugs & Links)
<b>5T-111-7792CU/1</b>	7.7	12	2	25 mm <sup>2</sup> Cu (Lugs & Links)
	9.2			35 mm <sup>2</sup> Cu (Lugs & Links)
<b>5T-111-104115CU/1</b>	10.4	9	2	50 mm <sup>2</sup> Cu (Lugs & Links)
	11.5			70 mm <sup>2</sup> Cu (Lugs & Links)
<b>5T-111-142CU/1</b>	14.2	6	1	95 mm <sup>2</sup> Cu (Lugs & Links)
<b>5T-111-165CU/1</b>	16.5	6	1	120 mm <sup>2</sup> Cu (Lugs & Links)
<b>5T-111-148CU/1</b>	14.8	6	1	19/2.00 OH
<b>5T-111-183CU/1</b>	18.3	5	1	150 mm <sup>2</sup> Cu (Lugs & Links)
<b>5T-111-200CU/1</b>	20.0	5	1	185 mm <sup>2</sup> Cu (Lugs & Links)
Aluminium				
<b>5T-111-140173AL/1</b>	14.0	9	2	25mm ABC
	17.3			35-70mm ABC
<b>5T-111-180190AL/1</b>	18.0	9	2	Full tension sleeve on 7/3.00 and 7/3.75
	19.0			Full tension sleeve on 7/4.50
<b>5T-111-210AL/1</b>	21.0	9	1	Non tension sleeve on 19/3.75 also 120 mm CCT
<b>5T-111-215AL/1</b>	21.5	9	1	95-150mm ABC
<b>5T-111-220AL/1</b>	22.0	9	1	Full tension sleeve on 19/3.75

Each die has dual markings cable size mm<sup>2</sup> and A/F hex.  
Note: Each die set consists of 2 pieces

**STYLE 1**

**STYLE 2**



**DIES 5 TONNE CEMBRE (TO SUIT SLV-261EM INLINE CRIMPER)**

Model No.	A/F Dimension	Description	Tool
Aluminium			
<b>5T-M90-50</b>	9.00mm	9.0 AF AL	<b>SLV-261EM</b>
<b>5T-M132-50</b>	13.20mm 50-70mm <sup>2</sup>	13.2 AF AL	<b>SLV-261EM</b>
<b>5T-M140-50</b>	14.00mm 7/2.25 UTILUX 25mm <sup>2</sup> ABC	14.0 AF AL	<b>SLV-261EM</b>
<b>5T-M173-50</b>	17.30mm 95-120mm <sup>2</sup>	17.3 AF AL	<b>SLV-261EM</b>
<b>5T-M215-50</b>	21.50mm 150-185mm <sup>2</sup> UTILUX 35-70mm <sup>2</sup> ABC	21.5 AF AL	<b>SLV-261EM</b>
<b>5T-M220-50</b>	22.00mm 19/3.25 CABAC 95-120mm <sup>2</sup> ABC	22.0 AF AL	<b>SLV-261EM</b>
Copper			
<b>5T-M63-50</b>	6.30mm 16mm <sup>2</sup>	6.3 AF CU	<b>SLV-261EM</b>
<b>5T-M77-50</b>	7.70mm 25mm <sup>2</sup>	7.7 AF CU	<b>SLV-261EM</b>
<b>5T-M87-50</b>	8.70mm SPECIAL	8.7 AF CU	<b>SLV-261EM</b>
<b>5T-M92-50</b>	9.20mm 35mm <sup>2</sup>	9.2 AF CU	<b>SLV-261EM</b>
<b>5T-M96-50</b>	9.60mm 7/2.00 & 7/2.03	9.6 AF CU	<b>SLV-261EM</b>
<b>5T-M104-50</b>	10.40mm 50mm <sup>2</sup>	10.4 AF CU	<b>SLV-261EM</b>
<b>5T-M115-50</b>	11.50mm 70mm <sup>2</sup>	11.5 AF CU	<b>SLV-261EM</b>
<b>5T-M142-50</b>	14.20mm 95mm <sup>2</sup>	14.2 AF CU	<b>SLV-261EM</b>
<b>5T-M148-50</b>	14.80mm 19/2.00 O/HEAD 19/2.11	14.8 AF CU	<b>SLV-261EM</b>
<b>5T-M165-50</b>	16.50mm 120mm <sup>2</sup>	16.5 AF CU	<b>SLV-261EM</b>
<b>5T-M183-50</b>	18.30mm 150mm <sup>2</sup>	18.3 AF CU	<b>SLV-261EM</b>
<b>5T-M190-50</b>	19.00mm SPECIAL	19.0 AF CU	<b>SLV-261EM</b>
<b>5T-M200-50</b>	20.00mm 185mm <sup>2</sup>	20.0 AF CU	<b>SLV-261EM</b>
Cutting Die			
<b>5T-MB52-50</b>	10.00mm CUT	STAY WIRE CUTTING DIE 10.0mm O.D.	<b>SLV-261EM</b>



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**6 TON ROUND DIES**

**SUITS KLAUKE EK425, IZUMI SLV-ND, SLV-60EM  
DOES NOT SUIT IZUMI 5 TONNE TOOLS**

**COPPER**

Model No.	Dimensions Of Hex Die (mm)		Conductor Details (mm <sup>2</sup> )
	A/F	Crimp Length	
<b>6T-6.3AFCU</b>	6.3	6.0	16
<b>6T-7.7AFCU</b>	7.7	10.0	25
<b>6T-9.2AFCU</b>	9.2	10.0	35
<b>6T-10.4AFCU</b>	10.4	9.0	50
<b>6T-11.5AFCU</b>	11.5	9.0	70
<b>6T-14.2AFCU</b>	14.2	6.0	95
<b>6T-16.5AFCU</b>	16.5	6.0	120
<b>6T-18.3AFCU</b>	18.3	5.0	150
<b>6T-20.0AFCU</b>	20.0	5.0	185
<b>6T-23.1AFCU</b>	23.1	5.0	240
<b>6T-CUSET240</b>	COPPER DIE SET		INCLUDES ALL DIES ABOVE

**ALUMINIUM**

Model No.	Dimensions Of Hex Die (mm)		Conductor Details (mm <sup>2</sup> )
	A/F	Crimp Length	
<b>6T-9.0AFAL</b>	9.0	12.0	10-35
<b>6T-13.2AFAL</b>	13.2	12.0	50-70
<b>6T-22.0AFAL</b>	22.0	9.0	150-185

**ABC - PRE-INSULATED SLEEVES**

Model No.	Dimensions Of Hex Die (mm)		Conductor Details (mm <sup>2</sup> )
	A/F	Crimp Length	
<b>6T-14.0AFALABC</b>	14.0	9.0	25
<b>6T-17.3AFALABC</b>	17.3	9.0	35-70
<b>6T-21.5AFALABC</b>	21.5	9.0	95-150




**6T-CUSET240**



**DIES ALUMINIUM 12 TONNE**

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

Model No.	Hex A/F	Length Of Crimp Face	Conductor Details	
Aluminium				
<b>12T-9.0AFAL</b>	9.0 mm	22.0 mm	6-35 mm <sup>2</sup>	
<b>12T-13.2AFAL</b>	13.2 mm	22.0 mm	50-70 mm <sup>2</sup>	
<b>12T-17.3AFAL</b>	17.3 mm	22.0 mm	95-120 mm <sup>2</sup>	
<b>12T-21.0AFAL</b>	21.0 mm	18.0 mm	150-185 mm <sup>2</sup> UTILUX	
<b>12T-22.0AFAL</b>	22.0 mm	18.0 mm	150-185 mm <sup>2</sup> CABAC	
<b>12T-28.4AFAL</b>	28.4 mm	18.0 mm	240-300 mm <sup>2</sup>	
Overhead				
<b>12T-14.0AFAL</b>	14.0 mm	22.0 mm	7/2.25 UTILUX	
<b>12T-14.5AFAL</b>	14.5 mm	22.0 mm	7/2.50	
<b>12T-18.0AFAL</b>	18.0 mm	22.0 mm	7/3.00 & 7/3.75 CABAC	
<b>12T-18.3AFAL</b>	18.3 mm	22.0 mm		
<b>12T-19.0AFAL</b>	19.0 mm	22.0 mm	7/4.50 CABAC	
<b>12T-22.0AFAL</b>	22.0 mm	18.0 mm	19/3.25 CABAC	
<b>12T-26.2AFAL</b>	26.2 mm	18.0 mm	19/3.75 CABAC	
<b>12T-30.3AFAL</b>	30.3 mm	18.0 mm	19/4.75	
ABC				
<b>12T-14.0AFALABC</b>	14.0 mm	9.0 mm	25 mm <sup>2</sup> ABC	
<b>12T-17.3AFALABC</b>	17.3 mm	9.0 mm	35 - 70 mm <sup>2</sup> ABC	
<b>12T-21.5AFALABC</b>	21.5 mm	9.0 mm	95 - 150 mm <sup>2</sup> ABC	
<b>12T-25.0AFALABC</b>	25.0 mm	8.0 mm	ABC	
Specials				
<b>12T-7.7AFAL</b>	7.7 mm	25.0 mm		
<b>12T-16.5AFAL</b>	16.5 mm	22.0 mm		
<b>12T-21.5AFAL</b>	21.5 mm	18.0 mm		
<b>12T-24.9AFAL</b>	24.9 mm	18.0 mm		
<b>12T-30.0AFAL</b>	30.0 mm	18.0 mm		
Steel				
<b>12T-7.5AFST</b>	7.5 mm	10 mm	INNER STEEL (ACSR)	
<b>12T-9.5AFST</b>	9.5 mm	10 mm	INNER STEEL (ACSR)	
Nest & Indent Sizes For "UG" Aluminium Sector Cable				
Conductor Size	3 Core		4 Core	
	Nest	Indent	Nest	Indent
70mm <sup>2</sup>	12T-12NEST	12T-INDENT14	12T-14NEST	12T-INDENT14
95mm <sup>2</sup>	12T-12NEST	12T-INDENT15	12T-14NEST	12T-INDENT15
120mm <sup>2</sup>	12T-12NEST	12T-INDENT16	12T-14NEST	12T-INDENT16
150mm <sup>2</sup>	12T-12NEST	12T-INDENT17	12T-15NEST	12T-INDENT17
185mm <sup>2</sup>	12T-12NEST	12T-INDENT18	12T-15NEST	12T-INDENT18
240mm <sup>2</sup>	12T-12NEST	12T-INDENT19	12T-15NEST	12T-INDENT19
300mm <sup>2</sup>	12T-12NEST	12T-INDENT20	12T-15NEST	12T-INDENT20
CUTTING DIE		Description		
<b>12T-CUTTINGDIE</b>	Guy Wire/Guy Strand/EHS Guy Wire, ACSR/AL/CU Ground Rod & Soft Steel Bolts		16mm (5/8") 17.5mm 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**



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**DIES ALUMINIUM & SETS 12 TONNE**

Suitable for ALL brands of 12T 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 mm2
12T-5.7AFCU	5.7 mm	6.35 mm	10 mm2
12T-6.3AFCU	6.3 mm	17.5 mm	16 mm2 *
12T-7.7AFCU	7.7 mm	17.5 mm	25 mm2 *
12T-9.2AFCU	9.2 mm	17.5 mm	35 mm2 *
12T-10.4AFCU	10.4 mm	17.5 mm	50 mm2 *
12T-11.5AFCU	11.5 mm	17.5 mm	70 mm2 *
12T-14.2AFCU	14.2 mm	17.5 mm	95 mm2 *
12T-16.5AFCU	16.5 mm	14.0 mm	120 mm2 *
12T-18.3AFCU	18.3 mm	14.0 mm	150 mm2 *
12T-20.0AFCU	20.0 mm	14.0 mm	185 mm2 *
12T-23.1AFCU	23.1 mm	10.0 mm	240 mm2 *
12T-26.0AFCU	26.0 mm	10.0 mm	300 mm2 *
12T-28.1AFCU	28.1 mm	8.0 mm	400 mm2 **
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	185mm2 TRIPLEX
12T-7.5AFCU	7.5 mm	16.0 mm	35mm2 TRIPLEX
Specials			
12T-8.7AFCU	8.7 mm	17.5 mm	SPECIAL



**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**

**DIE SETS 12 TONNE**

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

Individual Die Ordering Codes	Copper												Aluminium					
	12T-6.3AFCU	12T-7.7AFCU	12T-9.2AFCU	12T-10.4AFCU	12T-11.5AFCU	12T-14.2AFCU	12T-16.5AFCU	12T-18.3AFCU	12T-20.0AFCU	12T-23.1AFCU	12T-26.0AFCU	12T-28.1AFCU	12T-9.0AFAL	12T-13.2AFAL	12T-17.3AFAL	12T-21.0AFAL	12T-22.0AFAL	12T-28.4AFAL
Hex A/F (mm)	6.3	7.7	9.2	10.4	11.5	14.2	16.5	18.3	20	23.1	26	28.1	9	13.2	17.3	21	22	28.4
Length Of Crimp Face (mm)	17.5	17.5	17.5	17.5	17.5	17.5	14	14	14	10	10	8	22	22	22	18	18	18
Conductor Details (mm2)	16	25	35	50	70	95	120	150	185	240	300	400	6-35	50-70	95-120	150-185 UTILUX	150-185 CABAC	240-300
Die Set Ordering Codes	Below are the individual dies included in the given Die Set, indicated with a ✓																	
	Case	Pcs																
12T-CUSET-MB	Metal	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12T-CUSET	Plastic	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12T-CUSET-MB400HB	Metal	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12T-CUSET400	Plastic	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12T-ALCUSET-MB	Metal	18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12T-ALSET	Plastic	6											✓	✓	✓	✓	✓	
12T-ALSET-MB	Metal	6											✓	✓	✓	✓	✓	

**MODEL No. 12T- SERIES COPPER "C" CONNECTOR DIES**

Die sets are for Copper "C" Connectors which are "C" shaped copper sections for terminating main and tap copper conductors. Our dies are made to the same specifications as Burndy, Cabac and Dulmison/PLP (Preformed Line Products). We also supply a range of Utilux die sets for copper conductor terminations.

SF Model No	Equivalent to		
	Burndy	Cabac	Dulmison/PLP
<b>12T-U1011</b>	U1011	HT130-C1011	-
<b>12T-U997</b>	U997	HT130-C997	-
<b>12T-UC</b>	UC	HT130-CC	-
<b>12T-UO &amp; 12T-DU1315</b>	UO	HT130-CO	DU1315

**"AUSTRALIAN MADE"**



Cutting dies manufactured in Australia from high tensile steel billets and heat treated to maximise strength and durability.



**12T-U1011**



**12T-U997**



**12T-UC**



**12T-UO & 12T-DU1315**

**DIES FOR "YGHC" STYLE EARTHING CONNECTORS**

CAT NO.	COPPER CONDUCTOR RANGE		SF Model No	IMAGE
	TAP mm2	RUN mm2		
<b>YGHC2C2</b>	10~35	10~35	12 TONNE U-C	
<b>YGHC26C2</b>	50~70	16~35	U-O	
<b>YGHC26C26</b>	50~70	50~70	U-O	
<b>YGHC29C26</b>	95~150	16~70	U-997	
<b>YGHC29C29</b>	95~150	95~120	U-997	
<b>YGHC34C26</b>	150~240	10~70	U-1011	
<b>YGHC34C29</b>	150~240	95~120	U-1011	
<b>YGHC34C34</b>	150~240	150~240	U-1011	

**DIES FOR "YGHR" STYLE EARTHING CONNECTORS**

CAT NO.	COPPER CONDUCTOR RANGE		SF Model No	IMAGE
	TAP mm2	RUN mm2		
<b>YGHR2612</b>	10~35	10~35	12 TONNE U-C	
<b>YGHR26C58</b>	50~70	16~35	U-O	
<b>YGHR26C34</b>	50~70	50~70	U-O	
<b>YGHR26C100</b>	95~150	16~35	U-997	
<b>YGHR29C12</b>	95~150	50~70	U-997	
<b>YGHR29C58</b>	95~150	95~150	U-997	
<b>YGHC34C29</b>	150~240	95~120	U-1011	
<b>YGHC34C34</b>	150~240	150~240	U-1011	

**DIES FOR "YGHP" STYLE EARTHING CONNECTORS**

CAT NO.	COPPER CONDUCTOR RANGE		SF Model No	IMAGE
	TAP mm2	RUN mm2		
<b>YGHP2C2</b>	10~35	10~35	12 TONNE U-O	
<b>YGHP29C2</b>				
<b>YGHP29C26</b>	15~120 (13-15mm ROD)	50~70	U-997	
<b>YGHP29C29</b>		95~120	U-997	
<b>YGHP34C2</b>				
<b>YGHP34C26</b>	150~240	50~70	U-998	
<b>YGHP34C29</b>	(16-19mm ROD)	95~120	U-998	
<b>YGHP34C34</b>		150~240	U-1011	

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**MODEL No. 12T-CUTTING DIE (MADE IN AUSTRALIA)**



**"AUSTRALIAN MADE"**  
Cutting dies manufactured in Australia from high tensile steel billets and heat treated to maximise strength and durability.

**CAN BE USED IN**

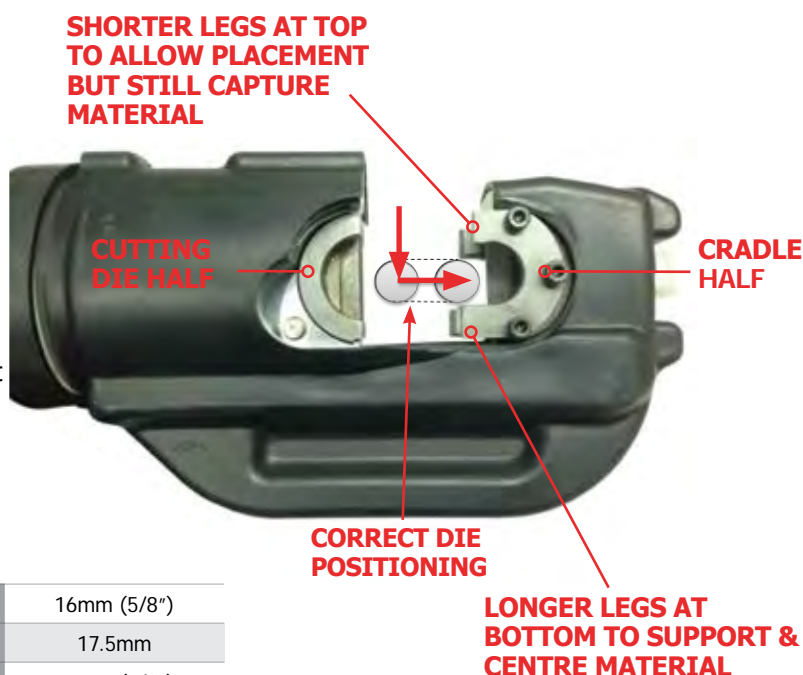
- 12 Tonne Hand Hydraulic Crimping Tools
- 12 Tonne Battery Powered Crimpers
- Remote Head Hydraulic Crimpers

**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")





**KK SERIES HEXAGONAL ROTATABLE DIE  
 LUG HAND CRIMPER**

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



**MODEL NO. KK05AU**

Crimp Range	6, 10, 16, 25, 35 & 50mm <sup>2</sup>
Weight	1.35kg
Total Length	400mm



**MODEL NO. KK06AU**

Crimp Range	6, 10, 16, 25, 35, 50, 70, 95 & 120mm <sup>2</sup>
Weight	3.75kg
Total Length	665mm



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## MODEL NO. EP-250H

### SPECIFICATIONS

Capacity	25 tonne compression head will crimp cable lugs to 630mm <sup>2</sup> Copper and 500mm <sup>2</sup> 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
- Now with spring loaded die lock pin to eliminate misalignment of dies, due to pin not engaging properly



### MODEL No: EP-250H ITEMS INCLUDED

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



### ALUMINUM DIES

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

### COPPER DIES

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

### ACSR DIES

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

### STEEL INNER DIES

Model No.	Hex A/F	Width Of Crimp Face	Conductor Details
<b>25T-16.0AFST</b>	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

- Refer pages 81-82 for hydraulic coupling configurations and hoses, supplied standard with screw type female 3050-3 coupling
- Battery or Electric pumps, refer pages 90-91

**MODEL No. H450 (MADE IN GERMANY)**



**DETAILS**

This lightweight head is for for crimping larger overhead joints, terminations and underground lugs or connectors. Made in Germany, includes Cejn 115 Series quick disconnect male coupler and 10-115-4101 metal dust cap. Supplied without carry case and leather die locating pin strap (not a carry handle).

**SPECIFICATIONS**

MODEL No.	H450
Force at die face	45 Tonne (450kN)
Dimensions (mm)	285 L x 115 Ø
Capacity (mm <sup>2</sup> )	800mm <sup>2</sup> Cu / 630mm <sup>2</sup> Al
Working Pressure (Bar)	700 (10,000 PSI)
Weight (kg)	11.4 (without dies)



**45/55 TONNE DIES (SUITS REMA 45T REMOTE HEAD)**

**ALUMINIUM DIES**

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

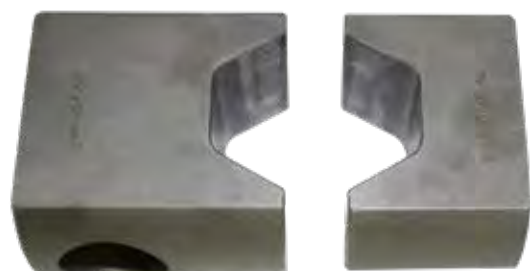
**COPPER DIES**

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



- Refer page 100 for hydraulic coupling configurations and hoses
- Battery or Electric pumps, refer pages 90-91

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## PORTABLE CAPSTAN WINCHES

Portable Winch Co. offers portable tools for lifting and pulling loads. All of their products are designed to perform complex or strenuous tasks in a simple manner. Their wide product range is used around the world in diverse applications such as farming, forestry, hunting, construction, telecommunication and infrastructure. Portable Winch design winches incorporating exclusive features and technology enabling great autonomy while being inherently safe to use. Therefore they are portable, compact, simple and easy to use.



## SECTORS AND APPLICATIONS

- Telecommunication infrastructures, towers and antennae
- Power utility infrastructures, pylons, poles and transmission lines
- Lifting transformers and isolators
- Fibre optic installation and cable pulling
- Search and rescue operations
- Agriculture and forestry
- Construction
- Mining, oil & gas
- Railway cable pulling
- Marine applications, such as pulling nets, boats or docks
- Scientific research
- Adventure and exploration
- Hunting & Off-Roading

## ADVANTAGES

- Light
- Powerful
- Portable
- Reliable
- Durable
- Rugged
- Tireless
- Simple
- Safe
- Compact
- Constant
- Quickly Attach
- Unlimited Length of Rope
- Smart



## PORTABLE WINCH UNIQUE FEATURES

<b>LIGHT AND PORTABLE</b>	One can carry it where it is needed
<b>HIGH-PERFORMANCE</b>	Constant pulling power and many variants of power and speeds depending on the engine and drum selected.
<b>AUTONOMOUS</b>	Since the winch is equipped with either petrol-powered engine, or LI-ION Battery, no external energy source is required.
<b>RELIABLE</b>	Reliable Honda petrol or battery operated engine will start, no matter what.
<b>ENDURING</b>	Highest quality components ensure continuous use and long life.
<b>SIMPLE</b>	Once the winch is anchored, you need only to wrap the rope around the drum and pull.
<b>SAFE</b>	The operator is never standing in the pulling axis.
<b>UNLIMITED ROPE LENGTH</b>	Thanks to the capstan principle, the rope does not accumulate on the drum but merely goes through.
<b>SYNTHETIC ROPE</b>	No more wire rope! Polyester ropes have low stretch properties and are very comfortable to work with.
<b>QUICK ANCHORING</b>	Anchor your winch to anything in a few seconds.







## PORTABLE WINCH PRODUCT STANDARDS

### DECLARATION OF CONFORMITY WINCHES:

**PCW4500, PCW3000-AU, PCW4000, PCW5000, PCW5000-HS, PCW-3000-Li-AIK, PCH1000, PCH2000, PCT1800-50HZ-P-230V**

All winches are designed, manufactured and tested according to **European Standard EN 14492-1:2006 Power Driven Winches**. They also comply with **Machinery Directive 2006/42/CE** and associated standards and regulations. They also comply with **Australian Standard AS1418.2-1997: Serial hoists and winches and ISO standard 19472:2006 Forestry Winches**. All winches are designed under the guidelines of **ISO standard 12100:2010 Safety of machinery- General principles for design- Risk assessment and risk reduction**.

All electrical components are **CSA approved**.

Lifting winches **PCH1000, PCH2000** and **PCT1800-50HZ-P-230V** are designed, manufactured and tested according to **ASME Standard B30.7-2011 Winches (formerly titled Base-mounted drum hoists)**. Each winch is tested at the factory before shipping and test results are available upon request. Lifting winches are classified as M3 according to **ISO Standard 4301-1:2016 Crane and lifting appliance classification**.

### ROPES

All ropes are manufactured according to **EN ISO 10547:2009 Polyester Fibre Ropes- Double Braid Construction**. Ropes are marked according to **EN ISO 9554:2005 Fibre Ropes- General Specifications** with a printed tape between the core and cover indicating the appropriate ISO standard, material, quality and origin. They are also labelled according to ISO 9554 and include instructions for the proper use and inspection. Additional information, including test certificates from the manufacturer and detailed inspection criteria are available upon request.












# WINCH CAPSTAN, PORTABLE OVERVIEW & FEATURES



## PORTABLE CAPSTAN WINCH OVERVIEW

### FEATURES

Model No.	Specifications	Inc.
 <b>PCW4500</b>	Max Pull (kg): 700 Max. Pulling Speed (m/min): 10 Weight (kg): 9.5 Power: Petrol 2-Stroke	1 3 4 8
 <b>PCW-3000-AU</b>	Max Pull (kg): 700 Max. Pulling Speed (m/min): 10 Weight (kg): 9.5 Power: Petrol 4-Stroke	4 6
 <b>PCW4000</b>	Max Pull (kg): 1000 Max. Pulling Speed (m/min): 13.4 Weight (kg): 12 Power: Petrol 4-Stroke	2 3 4 6
 <b>PCW5000</b>	Max Pull (kg): 1000 Max. Pulling Speed (m/min): 12 Weight (kg): 16 Power: Petrol 4-Stroke	4 6
 <b>PCW5000-HS</b>	Max Pull (kg): 500 Max. Pulling Speed (m/min): 24 Weight (kg): 16 Power: Petrol 4-Stroke	4 6
 <b>PCW-3000-Li-AIK</b>	Max Pull (kg): 1000 Max. Pulling Speed (m/min): 11.6 Voltage: Battery 82V 2AH Weight (kg): 9.5 Power: Battery	4 7
 <b>PCH1000</b>	Max Pull (kg): 775 Rated Lift Capacity (kg): 250 Max. Pulling Speed (m/min): 12 Weight (kg): 19 Power: Petrol 4-Stroke	1 3 5 6
 <b>PCH2000</b>	Max Pull (kg): 1150 Rated Lift Capacity (kg): 450 Max. Pulling Speed (m/min): 20 Weight (kg): 34.5 Power: Petrol 4-Stroke	1 3 5 6
 <b>PCT1800 50HZ-P-230V</b>	Max Pull (kg): 1000 Rated Lift Capacity (kg): 250 Max. Pulling Speed (m/min): 4.8 Voltage: 230/50 VAC / Hz Weight (kg): 16 Power: Electric	1 3 5 9

### Feature No. & Descriptions

**1 Progressive Capture System (PCS)**  
Designed for lifting winches, PCS lets operators start movement with a horizontal pull. It stops and holds loads in suspension, releasing with a cord handle. If the rope slips, it grips automatically to prevent falls.



**2 Automatic Anti Roll-Back Mechanism (ARM)**  
This feature ensures precise load control. The quick-release ARM prevents unintended descent, enhancing safety and reliability.



**3 Centrifugal Clutch** – When you pull on the rope, the winch begins to pull. When you stop pulling, the drum stops turning, and the cleats hold the load.



**4 Design for Pulling**

**5 Design for Pulling & Lifting**

**6 Honda GX Series 4-Stroke Engine**  
Commercial-grade OHC engines delivering reliable, fuel-efficient performance. Designed for continuous use in demanding applications with easy starting.



**7 Battery-Powered Capstan Winch**  
The first battery-powered capstan winch, compatible with 82V Briggs & Stratton lithium-ion batteries. Lightweight, high-performance, and eco-friendly with a brushless motor and overload protection.



**8 Maruyama 2-Stroke Engine**  
A durable, commercial-grade Japanese engine known for reliability, easy starting, and power. Backed by a 5-year warranty.



**9 Baldor 230V Motor**  
Part of ABB's Baldor-Reliance® line, this efficient, reliable motor meets IEC and NEMA standards. Built for demanding industrial applications with low life cycle costs.



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**PORTABLE CAPSTAN WINCH**

**CREATING A MECHANICAL ADVANTAGE**

The use of pulleys offers a mechanical advantage by reducing the force required to move a mass. It is therefore possible to double, triple, quadruple or quintuple the capacity of a system by using pulleys. In order to generate a mechanical advantage, at least one pulley must be attached to the load. Here are some examples.

Pulling	Lifting	
<b>Without Mechanical Advantage - Direct Line</b>		
<b>Mechanical Advantage x 2</b>		
<b>Mechanical Advantage x 3</b>		
<b>Mechanical Advantage x 4</b>		

In general, each pulley must be fixed to a solid anchoring point using a carabiner and a sling while respecting the appropriate safety factor. Therefore, for each pulley, a carabiner of an appropriate capacity and a sling are required.

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## PORTABLE CAPSTAN WINCH SPECIFICATIONS

Model No.	PCW4500 <sup>§</sup>	PCW3000-AU	PCW4000	PCW5000	PCW5000-HS	PCW-3000-Li-AIK <sup>†</sup>
Designed for	Pulling	Pulling	Pulling	Pulling	Pulling	Pulling
Capstan Drums						
Installed	76mm	76mm	76mm	57mm	85mm	76mm
Optional	—	—	—	85mm	57mm	—
Motor / Drive / Gear Box						
Brand	Maruyama	Honda	Honda	Honda	Honda	Portable Winch
Model	CER500W - 50cc	GX-35 cc	GX-50 cc	GXH-50 cc	GXH-50 cc	—
Type	2-stroke <sup>§</sup>	4-stroke	4-stroke	4-stroke	4-stroke	Brushless motor
Power	1.76 kW - 2.36 HP	1.0 kW - 1.3 HP	1.47 kW - 2.0 HP	1.6 kW - 2.1 HP	1.6 kW - 2.1 HP	1.0 kW - 82 Volts
Powered by	Unleaded gasoline <sup>§</sup>	Unleaded gasoline	Unleaded gasoline	Unleaded gasoline	Unleaded gasoline	Li-ion 82V battery <sup>†</sup>
Drive						
Centrifugal Clutch	Yes	No	Yes	No	No	No
Direct Drive (No clutch)	No	Yes	No	Yes	Yes	Yes
Drum turns with Engine Idling	No	Yes	No	Yes	Yes	Yes
Gear Box						
Rope Retention System	PCS <sup>*</sup>	No	ARM <sup>**</sup>	No	No	No
Gear Ratio	200:1	200:1	200:1	110:1	53:1	200:1
Housing	Aluminium alloy					
Gears	Heat treated 3 stage spur gears					
Shaft	Mounted on ball bearings					
Lubrication	Oil bath					
Brake	Anti-reversing needle bearing					
Work Cycle	Continuous	Continuous	Continuous	Continuous	Continuous	Battery Life: 70 min Approx.
Performance						
Max. Pulling Force						
57mm Drum	—	—	—	1000 kg	500 kg	—
76mm Drum	1200 kg	700 kg	1000 kg	—	—	1000 kg
85mm Drum	—	—	—	700 kg	350 kg	—
108mm Drum	—	—	—	—	—	—
Rated Lifting Capacity						
57mm Drum	Not designed for lifting					
76mm Drum	Not designed for lifting					
85mm Drum	Not designed for lifting					
108mm Drum	Not designed for lifting					
Max. Pulling Speed						
57mm Drum	—	—	—	12m/min	24m/min	—
76mm Drum	12m/min	10m/min	13.4 m/min	—	—	8.1-11.6m/min (3spd)
85mm Drum	—	—	—	18m/min	36m/min	—
108mm Drum	—	—	—	—	—	—
Rope						
Type	Low stretch double braided polyester – unlimited length – Eye splice and thimble mandatory for lifting applications					
Recommended diameter	10mm	10mm	10mm	12mm	12mm	10mm
Minimum diameter	10mm	10mm	10mm	10mm	10mm	10mm
Maximum diameter	13mm	13mm	13mm	13mm	13mm	13mm
Weight & Dimensions						
Weight (dry)	13 kg	9.5 kg	12 kg	16kg	16kg	10 kg
Dimensions (cm)	43.0L x 33.0W x 29.0H	28.9L x 35W x 26.1H	42L x 30W x 28.5H	36.2L x 37.1W x 36.1H	36.2L x 37.1W x 36.1H	31.8L x 30.2W x 31H
Other						
Certification	CE	CE	CE	CE	CE	CE & IPX6
Classification (ISO) Lifting	—	—	—	—	—	—
Anchor						
Included	Polyester sling 60mm x 2m (PCA-1260)					
Optional	Full line of accessories					
Warranty						
Private use	5 years	5 years	5 years	5 years	5 years	5 years
Commercial use	1 year	1 year	1 year	1 year	1 year	1 year
Bonus Warranty	Register your winch at <a href="http://www.portablewinch.com">www.portablewinch.com</a> to receive 1 EXTRA YEAR of warranty for FREE!					

† – Briggs & Stratton 82V Battery 2AH (See Page 209 for Battery & Charger.) | § – 2-Stroke Motor: Requires 50:1 petrol/oil mixture.  
\* – PCS (Progressive Capture System) | \*\* – ARM (Automatic Anti Roll-Back Mechanism)


**PORTABLE CAPSTAN WINCH**
**SPECIFICATIONS**

Model No.	PCH1000	PCH2000	PCT1800-50HZ-P-230V
Designed for	Pulling/Lifting	Pulling/Lifting	Pulling/Lifting
Capstan Drums			
Installed	57mm	108mm	85mm
Optional	85mm	—	57mm
Motor / Drive / Gear Box			
Brand	Honda	Honda	Baldor
Model	GXH-50 cc	GX-160 cc	AC Electric TEFC
Type	4-stroke	4-stroke	230 VAC, 1 ph - 50 Hz
Power	1.6 kW - 2.1 HP	3.6 kW - 4.8 HP	0.56 kW - 0.75 HP
Powered by	Unleaded gasoline	Unleaded gasoline	230 VAC
Drive			
Centrifugal Clutch	Yes	Yes	No
Direct Drive (No clutch)	No	No	Yes
Drum turns with Engine Idling	No	No	No (electric motor)
Gear Box			
Rope Retention System	PCS*	PCS*	PCS*
Gear Ratio	110:1	53:1	100:1
Housing	Aluminium alloy		
Gears	Heat treated 3 stage spur gears		
Shaft	Mounted on ball bearings		
Lubrication	Oil bath		
Brake	Anti-reversing needle bearing	Double one way bearing	Anti-reversing needle bearing
Work Cycle	Continuous	Continuous	25% (15 min/h to prevent motor overheating)
Performance			
Max. Pulling Force			
57mm Drum	775 kg	—	1000 kg
76mm Drum	—	—	—
85mm Drum	540 kg	—	820 kg
108mm Drum	—	1150kg	—
Rated Lifting Capacity			
57mm Drum	250 kg	—	250 kg
76mm Drum	—	—	—
85mm Drum	175 kg	—	250 kg
108mm Drum	—	450kg	—
Max. Pulling Speed			
57mm Drum	12m/min	—	4.8m/min
76mm Drum	—	—	—
85mm Drum	18m/min	—	7.2m/min
108mm Drum	—	20m/min	—
Rope			
Type	Low stretch double braided polyester – unlimited length – Eye splice and thimble mandatory for lifting applications		
Recommended diameter	12mm	12mm	12mm
Minimum diameter	12mm	12mm	12mm
Maximum diameter	13mm	13mm	13mm
Weight & Dimensions			
Weight (dry)	19 kg	34.5 kg	24 kg
Dimensions (cm)	50.5L x 37.1W x 36.1H	45.8L x 56W x 35.6H	55.6L x 36.6W x 36.6H
Other			
Certification	CE	CE	CE, UKCA, IP54
Classification (ISO) Lifting	M3	M3	M3
Anchor			
Included	Polyester sling 60mm x 2m (PCA-1260)		
Optional	Full line of accessories		
Warranty			
Private use	2 years	2 years	2 years
Commercial use	1 year	1 year	1 year
Bonus Warranty	Register your winch at <a href="http://www.portablewinch.com">www.portablewinch.com</a> to receive 1 EXTRA YEAR of warranty for FREE!		

\* – PCS (Progressive Capture System)

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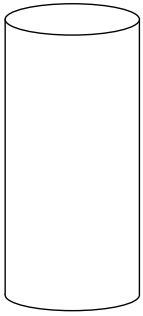

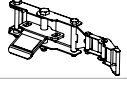

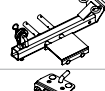
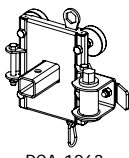

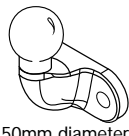


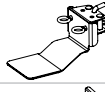
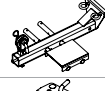
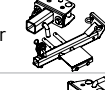
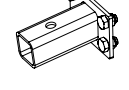
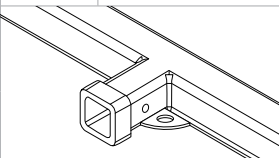
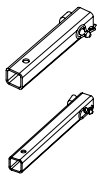
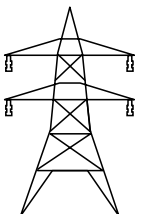
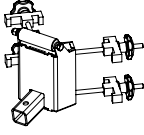

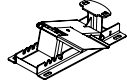
# WINCH – CAPSTAN, PORTABLE – ACCESSORIES REFERENCE CHART



## PORTABLE CAPSTAN WINCH ACCESSORIES

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ANCHORING ACCESSORIES REFERENCE CHART				USE		WINCH MODELS								
ANCHOR POINTS		ANCHOR ACCESSORIES		PULLING	LIFTING	PCW4500	PCW3000	PCW4000	PCW5000	PCW5000-HS	PCW-3000-LI-AIK	PCH1000	PCH2000	PCT1800 50HZ-P-230V
 Cylindrical (tree, pole, post, etc.)	PCA-1258, PCA-1259 or PCA-1260			●		●	●	●	●	●	●	●	●	●
	PCA-1269			●		●	●	●	●	●	●			
	+ PCA-1268			●		●	●	●	●	●	●			
	+ PCA-1264				●							●	●	●
	PCA-1263		+ PCA-1332 + PCA-1264 or + PCA-2264*	●		●	●	●	●	●	●	●	●	●
 Vehicle  With tow ball  50mm diameter	PCA-1261			●		●	●	●	●	●				
	PCA-1261			●		●	●	●	●	●				
	+ PCA-1268			●		●	●	●	●	●	●			
	+ PCA-1264				●							●	●	●
	+ PCA-1332 + PCA-1264 or + PCA-2264*			●		●	●	●	●	●	●	●	●	●
	PCA-1266													
 Hitch for square tube of 50.8mm (2") opening	PCA-1267 or PCA-1501		+PCA-1268	●		●	●	●	●	●				
			+ PCA-1264		●							●	●	●
			+ PCA-1332 + PCA-1264 or + PCA-2264*		●		●	●	●	●	●	●	●	●
 Pylon (with 90° "V" shaped legs)	PCA-1806		+PCA-1268	●		●	●	●	●	●				
			+ PCA-1264		●							●	●	●
			+ PCA-1332 + PCA-1264 or + PCA-2264*		●		●	●	●	●	●	●	●	●
 Floor	PCA-1805			●		●	●	●	●	●				

\*PCA-2264 and PCA-1264 winch supports perform the same function, but their size and construction vary slightly, with the PCA-2264 expressly designed for vertical pulling (lifting) with the PCH2000 winch only.



**PORTABLE CAPSTAN WINCH  
ACCESSORIES**



**PCA-1258**  
Multi-Purpose Sling



**PCA-1259**  
Multi-Purpose Sling



**PCA-1260**  
Multi-Purpose Sling



**PCA-1261**  
Winch Anchor Plate



**PCA-1263**  
Winch Anchor System



**PCA-1264/PCA-2264**  
Winch Support



**PCA-1265**  
Adapter for Heck-Pack Anchoring System



**PCA-1266**  
Heck-Pack Anchoring System



**PCA-1267**  
Square Tube with Bent Hitch Pin



**PCA-1268**  
Winch Support Plate with Bent Hitch Pin



**PCA-1269**  
Winch Anchor System



**PCA-1332**  
Pivoting Anchor



**PCA-1805**  
Floor Mount Winch Anchor



**PCA-1806**  
Pylon Mount Winch Anchor

Model No.	Description	Material	Length (cm)	Width (cm)	Weight (kg)	WLL (kg)
<b>PCA-1258</b>	60 mm x 3 metres (2-3/8" x 118-1/8").	Polyester	300	6	1.24	2000
<b>PCA-1259</b>	60 mm x 2.5 metres (2-3/8" x 98-7/16")	Polyester	250	6	1	2000
<b>PCA-1260</b>	60 mm x 2 metres (2-3/8" x 78-3/4")	Polyester	200	6	0.92	2000
<b>PCA-1261</b>	For towing balls up to 58.7 mm (2-5/16") diameter.	Zinc plated steel	20	15	0.7	
<b>PCA-1263</b>	For trees and poles with 3 m (10') strap. Use with PCA-1264 or PCA-1268.	Powder Coated Steel	37	26	7.2	-
<b>PCA-1264</b>	With adjustable shelf and swivel pulley for vertical or horizontal pulling. Installs on PCA-1263, PCA-1265, PCA-1267, PCA-1501, and PCA-1806. If used for horizontal pulling, the pivoting anchor (PCA-1332) is necessary (sold separately).	Powder Coated Steel	55	41	10.6	-
<b>PCA-2264</b>	<b>PCA-2264</b> and <b>PCA-1264</b> winch supports perform the same function, but their size and construction vary slightly, with the <b>PCA-2264</b> expressly designed for vertical pulling (lifting) with the <b>PCH2000</b> winch only.	Powder Coated Steel	57	41	10.6	-
<b>PCA-1265</b>	Bolts on PCA-1266. Use with PCA-1264 or PCA-1268.	Zinc Plated Steel	14	16	1.45	-
<b>PCA-1266</b>	For 50 mm towing balls.	Powder coated steel	46	16	3.05	-
<b>PCA-1267</b>	-	Zinc plated steel	30.5	5.08	2.1	-
<b>PCA-1268</b>	Installs on PCA-1263, PCA-1265, PCA-1267 or PCA-1501.	Zinc Plated Steel	45	29	4.5	-
<b>PCA-1269</b>	For trees and poles with 3 m (10') strap.	Zinc Plated Steel	26	24	4	-
<b>PCA-1332</b>	For the vertical pull support (PCA-1264). Link between PCA-1264 and PCA-1263 or PCA-1806 or PCA-1265 or PCA-1267 or PCA-1501.	Zinc Plated Steel	24	16	3.3	-
<b>PCA-1805</b>	Ideal for pulling wire through conduits.	Zinc Plated Steel	51	26	9.4	-
<b>PCA-1806</b>	For pylons angle iron. Use with Winch support plate PCA-1268 or Winch support for vertical pulling PCA-1264.	Powder Coated Steel	32	28	7.7	-

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## PORTABLE CAPSTAN WINCH DOUBLE BRAIDED POLYESTER ROPES


**PCA-1203M2ESC**

**PCA-1213M2ESC**

**PCA-1214M2ESC**

**PCA-1216M2ESC**

**PCA-1218M2ESC**

Model No.	Rope OD (mm)	Length (m)	Minimum Breaking Strength (UTS) (kg)	Roll Dimensions (L x W x H) (cm)	Weight (kg)
<b>PCA-1203M2ESC</b>	10	100	2200	20 x 20 x 28.5	7
<b>PCA-1213M2ESC</b>	12	100	3300	50 x 50 x 20	11
<b>PCA-1214M2ESC</b>	12	150	3300	50 x 50 x 30	18
<b>PCA-1216M2ESC</b>	12	200	3300	50 x 50 x 35	22
<b>PCA-1218M2ESC</b>	12	300	3300	50 x 50 x 50	33

NOTE: All ropes include soft eye splices on each end. UTS = Ultimate Tensile Strength. Suggested safety factors (check local standards or guidelines): Pulling 3:1 / Lifting 5:1.

## PORTABLE CAPSTAN WINCH – PULLEYS


**PCA-1270**

Open face corner block


**PCA-1273**

Double Swing Side Pulley


**PCA-1274**

Single Swing Side Pulley


**PCA-1275**

Single Swing Side Pulley

Model No.	Feature	Material	WLL (kg)	Sheave Diam. (mm)	Length (cm)	Width (cm)	Height (cm)	Weight (kg)	Rope (mm) Min / Max	Cert.	Min Break Strength (kg)
<b>PCA-1270</b>	-	Steel	N/A	100	25	10	5.8	2.4	6 / 12	-	N/A
<b>PCA-1273</b>	Two lightweight 100mm diameter deep groove aluminium sheaves.	Sides: Stainless steel. Sheave: Aluminium	4486	100	23	10.5	8	1.85	10 / 12	-	13775
<b>PCA-1274</b>	-	Aluminium	2243	100	19.6	10.5	5.3	1.1	10 / 12	-	9185
<b>PCA-1275</b>	-	Aluminium	1632	76	15	8	3	0.6	10	-	6125

## SPARE PARTS


**PCA-1110**

Capstan Drum 57mm


**PCA-1100**

Capstan Drum 85mm


**PCA-1120**

Capstan Drum 76mm


**PCA-1130**

Capstan Drum 108mm


**PCA-1151, PCA-1152**

Spark Arrestor


**10-0044**

Reversible Safety Lip

Model No.	Feature	Material	Diam. / Hole Diam. (mm)	Weight (kg)
<b>PCA-1100</b>			85 / 25.4	0.75
<b>PCA-1110</b>			57 / 25.4	0.35
<b>PCA-1120</b>	C/W rope guide and screws.		76 / 24.8	0.55
<b>PCA-1130</b>			108 / 24.8	0.75
<b>PCA-1151</b>	For Honda GXH-50 engine.	Aluminium	22 Ø	0.085
<b>PCA-1152</b>	For Gx160 engine		22 Ø	0.12
<b>10-0044</b>	For 57 mm and 85 mm drums. Prevents rope from jumping out of drum on all lifting winches: PCH1000, PCH2000 & PCT1800.		125	0.180



**PORTABLE CAPSTAN WINCH – CARRYING EQUIPMENT**

Introducing the New Hard Transport Case Model No. **PCA-0107** Built to endure tough conditions. Compatible with winches: **PCW3000-Li, PCW3000, & PCW4000.**

**FEATURES**

- Grooves for smooth installation of bungee cords or straps, ensuring your winch stays secure during transport
- Perforation points in the case allowing ventilation for gasoline models and preventing condensation from occurring.
- Fitting more than just the winch you can store all your essential accessories as well.
- Clippable hands to lock the cover on with ample space under the handle to carry with gloves on
- Opens to a full 180°, providing stability and eliminating the risk of damage.



**CASES**



**PCA-0100**



**PCA-0102**



**PCA-0104**



**PCA-1630**



**PCA-0340**



**PCA-0350**



**PCA-0107**

Model No.	Description	Material	Length (cm)	Width (cm)	Height (cm)	Weight (kg)
<b>PCA-0100</b>	Purpose built transport case with moulded locations for the winch and accessories. Suits Models PCW5000 & PCW5000-HS.	High-Impact Plastic	64	55	38	6.65
<b>PCA-0102</b>	Purpose built transport case with moulded locations for the PCW3000. Fits moulded Backpack PCA-0104.	High-Impact Plastic	47	33	31	3.9
<b>PCA-0104</b>	Moulded Backpack for Transport Case PCA-0102 and Rope Bag PCA-0103 or XXL Extra Large Transport Bag PCA-0105	Polymer	52	46	10	1.4
<b>PCA-1630</b>	Waterproof and airtight case with removable casters and folding top handle for PCT1800 or PCH2000 winches and accessories.	Polymer	79	63	44	15.7
<b>PCA-0340</b>	Waterproof and airtight case with casters and retractable top handle for PCW5000, PCW5000-HS & PCH1000 winches and accessories.	Polymer	58	58	56	14.8
<b>PCA-0350</b>	Waterproof and airtight case with folding side handles ideal for PCT1800-50HZ-P-230V and also suitable for PCW-5000, PCW-5000-HS & PCH-1000 winches and accessories.	Polymer	59	56	44	11.3
<b>PCA-0107</b>	The new hard transport case for most portable winch Pro-series models: PCW3000, PCW3000-Li, and PCW4000. Ingeniously designed to hold not just the winch but several accessories, making it more practical for you.	Polymer	58	41	36	3.0

**ROPE BAGS**



**PCA-1255**



**PCA-1256**



**PCA-1257XL**

Model No.	Feature	Material	Diameter (cm)	Height (cm)	Weight (kg)
<b>PCA-1255</b>	Rope Bag – Small - Two handles. Will store either 50 metres of 12 mm rope or 100 metres of 10 mm rope.	Durable Nylon	28	36	0.5
<b>PCA-1256</b>	Rope Bag – Medium - Will store either 100 metres of 12 mm rope or 200 metres of 10 mm rope.	Durable Nylon	30	64	0.9
<b>PCA-1257XL</b>	Rope Bag – Extra Large - Will store either 200 metres of 12 mm rope or 400 metres of 10 mm rope.	Durable Nylon with Hard Bottom	37	60	1.1



**PORTABLE CAPSTAN WINCH  
OTHER ACCESSORIES**



**1760426**  
Briggs & Stratton  
82V 2Ah Li Battery



**1760428**  
Briggs & Stratton  
230V Charger



**PCA-1290**  
Skidding Cone  
for Logs



**PCA-1291**  
Automatic Release  
for Open Face  
Corner Blocks



**PCA-1295**  
Choker Chain with  
C-Hook & Steel Pin



**PCA-1310**  
Pulling Plate for  
Vehicles



**PCA-1372**  
HPPE Rope Choker  
with Steel Pin

Model No.	Feature	Material	Length	Diameter	Width	Height	Weight	Minimum Breaking Strength (UTS)
<b>1760426</b>	60min Charge Time	High-resistance polymer plastic	21.5cm	-	12cm	8.5cm	2.6kg	-
<b>1760428</b>	Charges 2Ah Batteries	High-resistance polymer plastic	21cm	-	18.5cm	10.5cm	1.5kg	-
<b>PCA-1290</b>	50cm Opening	High-resistance polymer plastic	62cm	50.8cm	68cm	52cm	6.6	-
<b>PCA-1291</b>	Fits ropes up to 13 mm diameter.	Anodised Steel	17cm	-	11cm	11cm	0.405kg	-
<b>PCA-1295</b>	-	Anodised Steel	27cm	6.35mm	14cm	14cm	2.9kg	-
<b>PCA-1310</b>	Fits towing balls up to 50.8 mm (2") diameter.	Anodised Steel	27cm	4.2cm (Knob)	14cm	14cm	1.7kg	-
<b>PCA-1372</b>	Made of 10 mm diameter HPPE rope	High Performance Polyethylene	2.1m	6mm	-	-	0.55kg	7036kg



**PCA-1276**  
Steel Locking Carabiner



**PCA-1281**  
Safety Hook



**PCA-1282**  
Locking Grab Hook



**PCA-1299**  
C-Hook for Chain



**PCA-1702**  
Steel Locking Carabiner

Model No.	Description	Material	Minimum Breaking Strength (UTS)	Diam.	Length	Width	Height	Weight	Cert.	Gate Opening
<b>PCA-1276</b>	With screw gate lock.	Zinc plated with anodized aluminium	2550kg	10mm	17cm	11cm	-	0.16kg	CE	16mm
<b>PCA-1281</b>	Equipped with a spring-loaded safety gate.	Powder coated steel	5700kg	-	17cm	11cm	11cm	0.33kg	-	-
<b>PCA-1282</b>	With latch and 3 chain links. Will accept either 6 mm (1/4") or 7.9 mm (5/16") chain.	Zinc plated steel	-	6mm	17cm	11cm	11cm	0.63kg	-	7.9mm
<b>PCA-1299</b>	Convert an existing chain to an efficient choker chain with this C-Hook	Powder coated steel	5700kg	-	10cm	7.5cm	1.5cm	0.34kg	-	-
<b>PCA-1702</b>	Multi-purpose high-quality zinc plated with anodized aluminium steel locking carabiner with screw gate lock.	Zinc plated with anodized aluminium	5100kg	12mm	17cm	11cm	-	0.315kg	CE	19mm

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**PORTABLE CAPSTAN WINCH – KITS**

**PCW-3000-LI-AIK(C) BATTERY WINCH KIT**



**INCLUDES**

- 1 x PCW-3000-Li-AIK Portable Winch
- 1 x Briggs & Stratton 82V-2Ah Li Battery & 230V Rapid Charger
- 1 x PCA-0107 Hard Case
- 1 x Stainless Steel Pulley Block
- 2 x Carabiners
- 2 x Slings
- 50m x 10mm Double Braided Rope

**Customer can also purchase the following options:**

1. PCW-300-Li-AIK(CC): Winch kit with 2 batteries and charger
2. PCW-3000-Li-AIK: Winch kit without batteries and charger

**PCW-3000HK PETROL WINCH KIT**



**INCLUDES**

- 1 x PCW3000 Portable Winch
- 1 x Transport Case
- 1 x Backpack
- 1 x 1.8m Sling
- 1 x Snatch Block
- 2 x Oval Carabiners
- 50m x 10mm Double Braided Rope
- Rope Bag

**PORTABLE WINCH-PETROL/DIESEL**

**GOODWINCH**



Rope clutches supplied loose with units, to order petrol unit without clutch use Model No. GOODWINCH-1

**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 Yanmar (3.5 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.

Model No.	GOODWINCH	GOODWINCH-DIESEL
<b>SPECIFICATIONS</b>	Honda Petrol Engine	Yanmar Diesel Engine
<b>Twin Capstans</b>	Aluminium, 100mm Dia	Aluminium, 100mm Dia
<b>Capstan Gearbox</b>	Worm and Wheel, 30:1 ratio	Worm and Wheel, 30:1 ratio
<b>Flexible Coupling</b>	Rubber Anti-Vibration	Rubber Anti-Vibration
<b>Main Engine Gearbox</b>	Centrifugal 2:1 ratio	Centrifugal 2:1 ratio
<b>Engine</b>	4kW 4 stroke	3.5kW Diesel
<b>Base Construction</b>	Anodised Aluminium fabrication	Anodised Aluminium fabrication
<b>Removable Lifting Handles</b>	Bright zinc plated steel, rubber covered	Bright zinc plated steel, rubber covered
<b>Anchor Points</b>	Fitted tested shackles	Fitted tested shackles
<b>Rope Tie Offs</b>	Built in at top of main handle	Built in at top of main handle
<b>PERFORMANCE</b>	Honda Petrol Engine	Yanmar Diesel Engine
<b>Easy start</b>	Manual Choke	Manual Choke
<b>Method of starting</b>	Recoil Starter	Recoil Starter
<b>Emergency Stopping</b>	Top mounted cut off switch	Slide Control on Engine Side
<b>Engine Speed Control</b>	Throttle lever	Throttle lever
<b>Running Time, half throttle</b>	Approximately two hours	Approximately two hours
<b>Load Retrieval Speed</b>	Creep to 25m per minute	Creep to 21m per minute
<b>Pulling Capacity</b>	Maximum 1000 kgs	Maximum 850 kgs
<b>Raising Capacity *</b>	Maximum 300 kgs	Maximum 260 kgs
<b>Recommended Rope Max Suitable Rope Length</b>	14.3mm (9/16") double braided poly. As required, no maximum	14.3mm (9/16") double braided poly. As required, no maximum
<b>DIMENSIONS</b>	Honda Petrol Engine	Yanmar Diesel Engine
<b>With Handles Removed</b>	65cm long x 39cm wide x 42cm high	74cm long x 49cm wide x 47cm high
<b>Approx. Overall Weight</b>	50kgs	53kg

**ELECTRIC CABLE PULLERS**



**Model No. 00369**  
VersiBoom Package Shown



**Model No. 03196**



**Model No. 00829**



**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.



GREENLEE EQUIPMENT -  
TRUSTED SINCE 1862

Model No.	Greenlee Cat. No.	Description	Pulling Force (kN)	
			MAX	Continuous
31466	6001-22	Super Tugger Package & Chain Mount ^	28.9	20.0
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
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 or available in package (Model No. 00814)**

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**ELECTRIC CABLE PULLERS (CONTINUED)**

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

NOTE: Winch Model 31466 Optional Floor Mount Available (Use Model No. 35605)

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

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

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

<sup>3</sup> Contact us for details of the parts of the VersiBoom kit for UT5



Model No. **00813**



Model No. **00814**



**CABLE PUSHER / CABLE FEEDER (MADE IN USA)**

The Greenlee Ultra Cable Feeder is intended to pull cable off of reels to assist the Greenlee Capstan puller in feeding the cable into conduit or cable tray. The Ultra Cable Feeder is not intended to pull cable or rope through conduit.

**FEATURES**

- Feeds cable at variable speeds to match the speed of cable puller
- Accommodates cable ranging in size up to 90mm in diameter
- Now with new tires for improved traction with low friction cables
- Sets up easily and can be operated by just one person
- Dual motors drive each wheel for traction on both sides of the cable
- Comes with pendant and toggle switch. An optional foot switch is available to control feeding
- Two cable loading methods: top-loading and end-loading
- Patented

**SPECIFICATIONS**

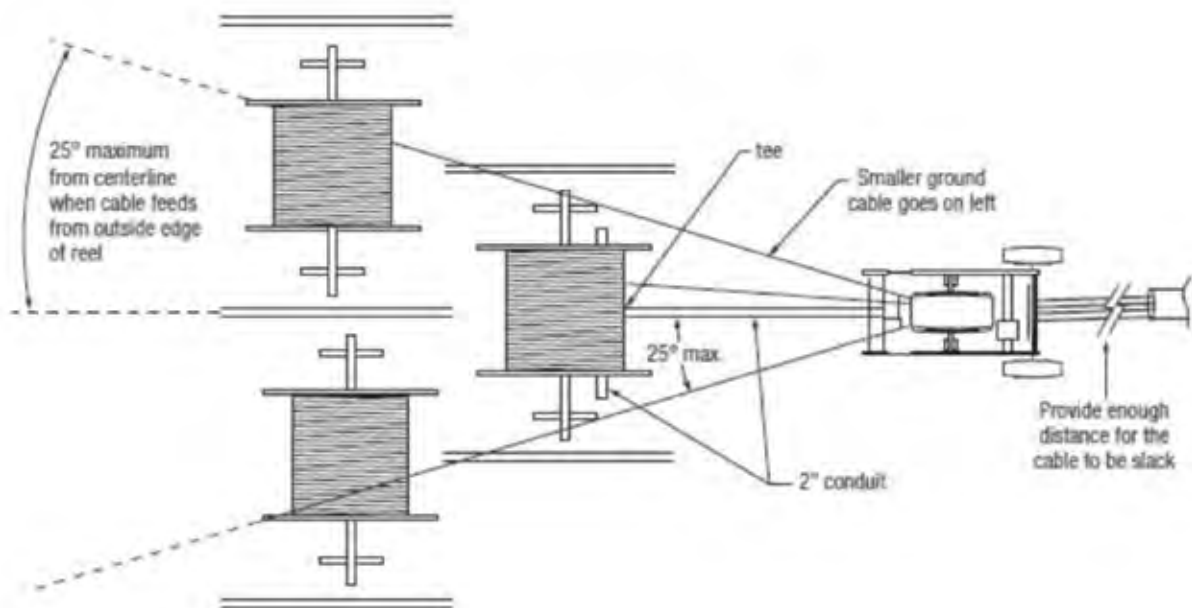
Model No.	<b>12293</b>
Reel Weight Capacity (kg)	11,300
Power Supply (VAC)	230
Size (mm)	1040 x 699 x 953
Weight (kg)	130

**ACCESSORIES**

Foot switch available

Model No.	<b>24821</b>
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**EXAMPLE OF APPLICATION**

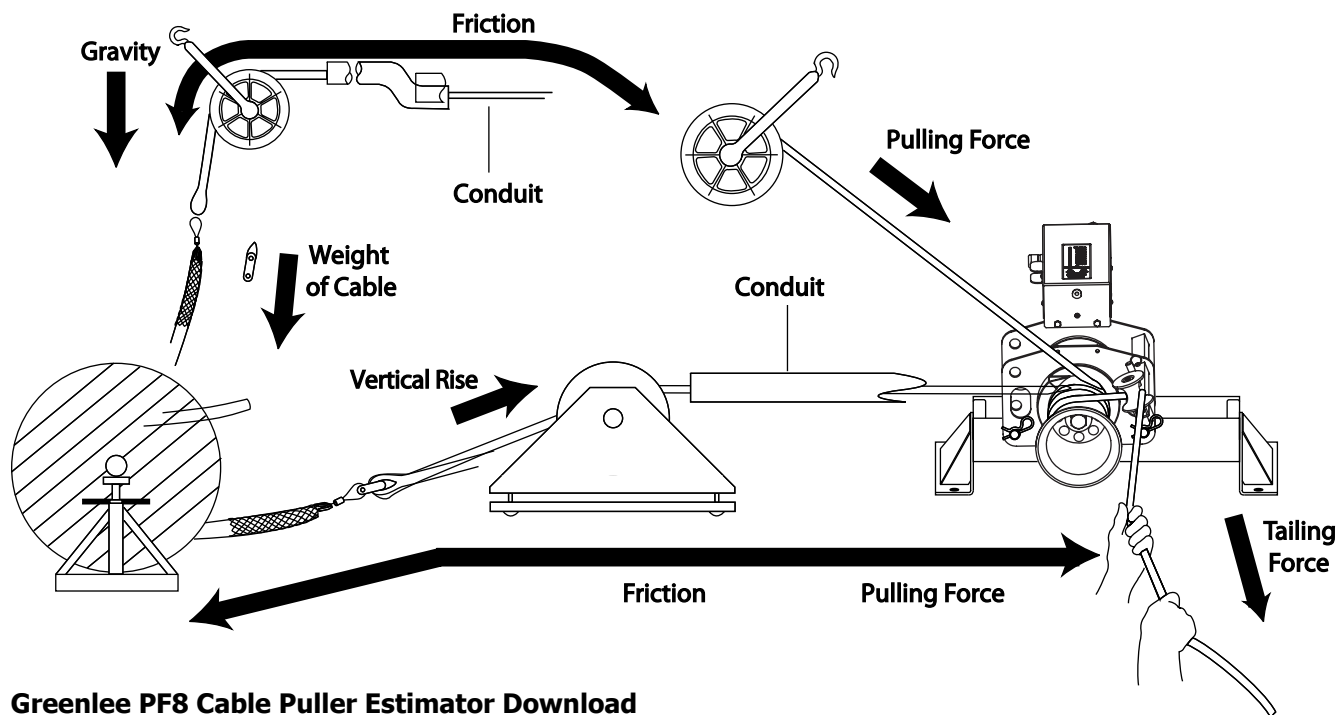


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**CABLE PULLING THEORY  
(FREE ESTIMATOR & ONLINE TRAINING)**



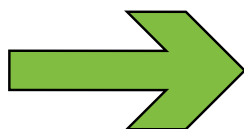
**Greenlee PF8 Cable Puller Estimator Download**

To give an approximation of the pull force that will be required to install electrical cable into a conduit, there are many unknown factors involved that prohibit giving exact results. Most notable amongst these is the coefficient of friction, occupancy of conduits (existing cables), lubrication, surface texture, and lay of the cable are never uniform along the length of a conduit run.

Comparing the known forces of pulls against the estimated force can give you a guide as to a good coefficient of friction to use for similar future pulls. In lieu of this, the Greenlee suggest some starting points for coefficient of friction of well-lubricated cable.

Typically known as a "leg", is a straight run of conduit followed by a bend, except for the last Leg, which would typically have no bend. Obviously there can be numerous bends in the run. If the leg changes elevation, there are substantial effect multipliers for vertical rise or descent. The total cable weight and a coefficient of friction are required. If there is a known drag on the cable before it enters the conduit, that force can be entered in and the estimated pull force can be displayed.

**SCAN  
HERE FOR  
MORE**



**Greenlee University – Training & Productivity Solutions**

Greenlee University offers informative and thorough "free" online training for a range of their products including; Cable Pulling Products: Overview & Safety; Set-Up Puller Assembly and Uses  
Productivity Solutions: Conduit Bending; Holemaking

Greenlee University is helping their customers do their jobs Faster, Safer & Easier with training to suit their needs. Explore upcoming "Webinars" and "On Demand Training" for opportunities on their website.

**VISIT [www.greenlee.com/resources/](http://www.greenlee.com/resources/)**



**TIRFOR HOISTS (MADE IN FRANCE)**



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.

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 wire rope 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-500 Series**



**TU Series**

**WIRE ROPE FOR ALL TIRFORS SOLD SEPARATELY**

Model No.	*Lift WLL (kg)	*Pull WLL (kg)	Wt (kg)	Wire Rope Wt @ 20 metre (kg)	**Rope (mm) OD	Wire Rope UTS (kg)	Dimensions (mm) LxWxH	Handle Dimensions (mm) Open/Closed	Replacement Safety Shear Pin	Rope 20 metre & Reeler Model No.
<b>T-508D</b>	800	1,333	6.6	6.1	8.3	4,000	420x250x59	690/400	<b>29506</b>	<b>1959</b>
<b>T-516D</b>	1,600	2,666	13.5	13.1	11.5	8,000	530x315x127	1150/650	<b>29516</b>	<b>2059</b>
<b>T-532D</b>	3,200	5,333	24.0	26.6	16.3	16,000	620x355x130	1150/650	<b>41206</b>	<b>2379</b>
<b>TU-8</b>	800	1,333	8.4	6.1	8.3	4,000	527x265x108	770-510	<b>8836</b>	<b>1959</b>
<b>TU-16</b>	1,600	2,666	20.0	13.1	11.5	8,000	660x330x140	1190-680	<b>8836</b>	<b>2059</b>
<b>TU-32</b>	3,200	5,333	27.0	26.6	16.3	16,000	676x330x156	1190-680	<b>6866</b>	<b>2379</b>

\* SAFETY FACTORS: 5:1 LIFTING & 3:1 PULLING unless otherwise nominated or required

\*\* BENDING RADIUS: Wire rope bending radius is to be greater than 12 x the diameter (12 x 11.5mm = greater than 138mm)

**NOTE:** • Hydraulic operated Tirfor hoists are also available in 1600 and 3200kg capacities, refer next page for more detail.

- Longer length wire rope on reeler or drum available upon request.

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**TUH SERIES SUPERTIRFOR HYDRAULIC TIRFOR WINCH**



The Tractel TUH Series Hydraulic Tirfor® machines are portable motorised hoists used with maxiflex wire rope.



**TU 16 H**



**TU 32 H**

**FEATURES**

- Can be used to lift, pull and position loads over great distances depending on the wire rope length.
- Suitable for use in numerous configurations and are the ideal solution for use in professional applications.
- Operated by a hydraulic cylinder powered by either an electrical power pack or a petrol motor power pack.

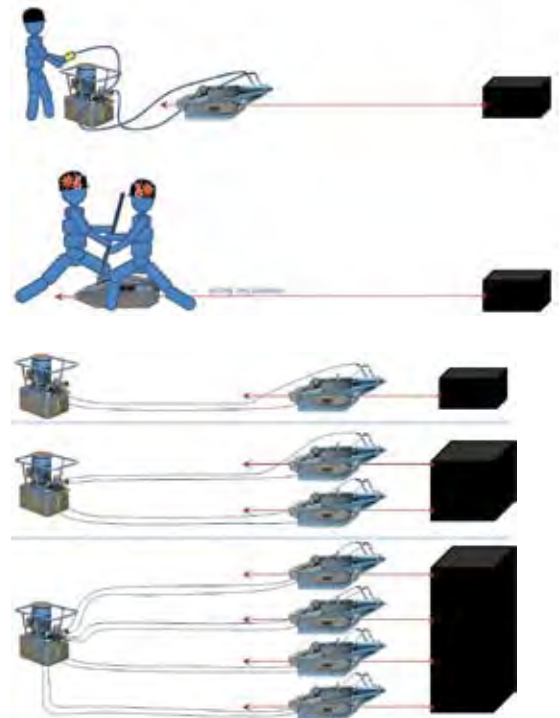
**NOTE:** The load capacity of the Tirfor® system can be increased by using sheave blocks.

- Multiple machines can be operated by a single operator.
- Systems can be operated at a distance.
- No operator fatigue.

**CAPACITY**

By using the sheave block technique, the capacity of the Hydraulic Tirfor® can be increased by a factor of 2, 3, 4 or more.

- They can be used to lift, pull and position loads over great distances depending on the wire rope length.
- This special mechanism maintains a constant lifting or pulling capacity.



**CONFIGURATIONS**

The Hydraulic Tirfor® can be used in various configurations, up to 4 hoists at the same time.

Model No.	Capacity (kg)	Length (mm)	Height (mm)	Thickness (mm)	Rope (mm OD)	Forward Operation (m/min)			Reverse Operation (m/min)			Hydraulic Power Pack			
						Conf1	Conf2	Conf3	Conf1	Conf2	Conf3	1 way (kg)	2 way (kg)	3 way (kg)	Dimensions of Power Pack (mm)
<b>TU 16 H</b>	1600	788	360	185	11.5	2	1.5	0.75	2.3	2	1	43.5	44.1	45.1	460 x 550 x 500
<b>TU 32 H</b>	3200	1070	430	204	16.5	0.7	0.35	0.17	1.6	0.8	0.4	43.5	44.1	45.1	460 x 550 x 500

**NOTE:** Special Pumps are Required to Operate – Contact Specialised Force for More Information.

**HYDRAULIC WINCHES (MADE IN ITALY)**



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)
<b>F 202.P.08</b>	6	200	1.8	D12	8
<b>F 203.10</b>	8	300	5.8	D13	8 (middle) 15 (1st layer)
<b>F 206.10</b>	10	500	5.8	D14	10 (middle) 15 (1st layer)
<b>F 207.30</b>	10	700	19.0	D15	30 (middle)
<b>F 210.50</b>	16	400	35.0	D16	50 (middle)

**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!



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**UNDERGROUND PULLING MACHINERY (MADE IN ITALY)**

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. 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)
<b>F 325.P.08</b>	120	6-7	8.0	E32	9
<b>F 265.P.15</b>	185	8	13.0	E33	15
<b>F 215.P.30</b>	200	8-10	20.0	E34	30
<b>F 280.40.P</b>	325	13-16	26.0	E35	40
<b>F 275.P.40</b>	250	13	26.0	E36	40
<b>F 285.P.60</b>	300	14	30.0	E37	60
<b>F 280.P.100</b>	350	16	48.0	E38	110
<b>F 290.P.200.S</b>	380	22	50.0	E39	210
<b>F 260.P.400</b>	580	32	87.0	E40	400

**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.

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**MORE MACHINES AVAILABLE UPON REQUEST**

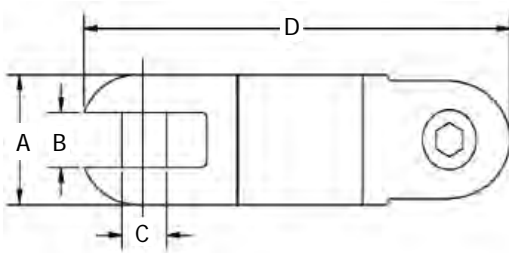


**SERIES 00505 UNDERGROUND LINE SWIVELS (MADE IN CANADA)**

**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 limit 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)				Replacement Pin Model No.	Weight (kg)
		A	B	C	D		
<b>00505-005</b>	3.3	16	7.1	4.8	64	00005-SLT	0.06
<b>00505-008</b>	5.0	20	7.1	4.8	78	00008-SLT	0.12
<b>00505-010</b>	10.0	22	9.5	7.9	86	00010-SLT	0.15
<b>00505-015</b>	15.6	25	10.3	9.5	98	00015-SLT	0.23
<b>00505-020</b>	22.2	32	13.5	10.3	121	00020-SLT	0.45
<b>00505-025</b>	31.1	35	14.3	12.7	130	00025-HEX	0.63
<b>00505-027</b>	40.0	38	15.1	12.7	143	00025-HEX	0.77
<b>00505-030</b>	44.5	41	17.5	15.9	152	00030-HEX	0.95
<b>00505-035</b>	66.7	51	19.8	17.5	178	00035-HEX	1.70
<b>00505-040</b>	110.0	60	26.2	22.2	262	00040-HEX	3.50
<b>00505-045</b>	222.0	76	30.2	28.6	349	00045-HEX	7.70



\* The Safe Working Load is calculated at 3:1 safety factor

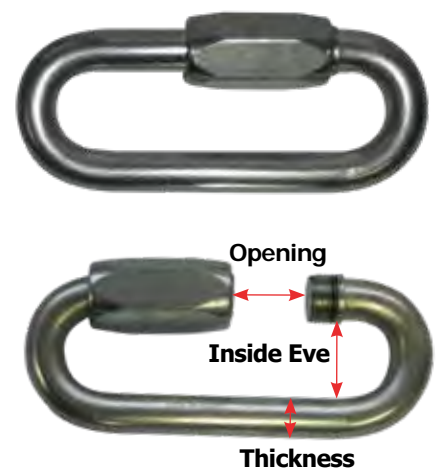
**SERIES K600 QUICK LINKS (MADE IN EUROPE)**

**SPECIFICATIONS**

**Quality European design and manufacture, zinc plated high quality steel made to comply with standards EN362 & EN12275**

Model No.	Length (mm)	Thickness of Material (mm) NOT NUT	Inside Eye Width (mm)	Opening (mm)	Suits DCD Swivel Model No.'s (and larger)	WLL* 5:1 (kg)	WLL* 3:1 (kg)	Break Load (kg)	Wt (kg)
<b>K600.08.W</b>	88	8	17.5	17.5	<b>00505-010</b>	650	1,083	3,250	0.10
<b>K600.10.W</b>	106	10	20.5	20.5	<b>00505-015</b>	1,000	1,667	5,000	0.15
<b>K600.12.W</b>	124	12	23.5	23.5	<b>00505-020</b>	1,250	2,083	6,250	0.26
<b>K600.16.W</b>	161	16	29.5	29.5	<b>00505-030</b>	2,500	4,167	12,500	0.63

\*5:1 safety factor for lifting is printed on the unit, however for pulling applications only 3:1 safety factor is required (unless otherwise nominated)



**REFER TO SF ELECTRICAL CATALOGUE FOR FITTING INSTRUCTIONS**

## BREAK-AWAY SWIVELS & 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 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.



Model No.	Dimensions (mm)							Max Pin WLL (kg)	Use Breakaway Pin Type	WT (g)
	A	B	C	D	E	F	G			
<b>00550-005</b>	15.9	7.1	4.7	17.4	6.3	69.8	82.5	307	A	80
<b>00550-010</b>	22.2	9.5	7.9	24.6	11.1	80.9	103.2	455	B	190
<b>00550-020</b>	31.8	13.5	10.3	32.5	13.5	114.3	141.3	1818	C	550

## BREAKAWAY SWIVEL PINS FOR 00550 SERIES BREAKAWAY SWIVELS

Model No. (Kit=Qty 10 Pins)	Break Point ±10% (kN)	Colour Code	Model No. (Kit=Qty 10 Pins)	Break Point ±10% (kN)	Colour Code	Model No. (Kit=Qty 5 Pins)	Break Point ±10% (kN)	Colour Code
Type A (Swivel <b>00550-005</b> )			Type B (Swivel <b>00550-010</b> )			Type C (Swivel <b>00550-020</b> )		
<b>00555-002</b>	0.88	WHITE	<b>00535-002</b>	0.88	WHITE	<b>00555-013</b>	6.09	WHITE
<b>00555-0034</b>	1.51	RED	<b>00535-004</b>	1.77	YELLOW	<b>00555-018</b>	8.00	GREEN
<b>00555-004</b>	1.77	YELLOW	<b>00535-006</b>	2.66	ORANGE	<b>00555-020<sup>3</sup></b>	8.89	BLUE
<b>00555-0045</b>	2.00	BLUE	<b>00535-008</b>	3.55	GREY	<b>00555-027<sup>2</sup></b>	12.01	BLACK
<b>00555-006</b>	2.66	ORANGE	<b>00535-010</b>	4.44	RED	<b>00555-036</b>	16.01	YELLOW
<b>00555-007<sup>4</sup></b>	3.00	BLACK				<b>00555-040<sup>1</sup></b>	17.79	RED

Suits Type of Cable:

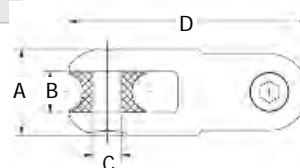
- <sup>1</sup> 300mm<sup>2</sup> - 500mm, 3 Core + 300mm Triplex (11kV)
- <sup>2</sup> 95mm-300mm<sup>2</sup>, 3 Core (11kV)
- <sup>3</sup> 630mm<sup>2</sup> Single Core Cu (11kV) + LV Unarmoured Cables
- <sup>4</sup> 300mm<sup>2</sup> XLPE Single Core or smaller

## 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. Replacement sheaves are available by contacting your nearest Specialised Force Branch.

Model No.	WLL (kN)	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
<b>00521-020</b>	66.7	16	44.45	19.5	17.5	123.8	0.7
<b>00521-035</b>	66.7	22	50.8	23.8	17.5	139.7	1.23
<b>00521-040</b>	111.2	22	61.1	25.4	22.2	157.9	2.04

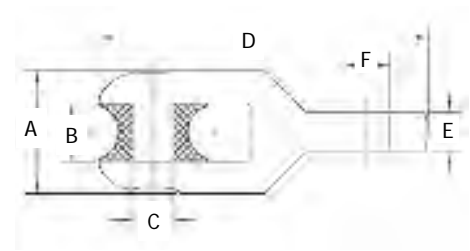
\* WLL (Working Load Limit) 3:1 recommended as a guide only



**ROPE TO SWIVEL CONNECTORS (MADE IN CANADA)**



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 by contacting your nearest Specialised Force Branch.



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)		
<b>00522-025</b>	31.1	22.2	50.8	23.8	17.5	134.9	12.7	13.4	0.9	<b>00505-020 00505-025 00505-027</b>
<b>00522-035</b>	66.7	22.2	50.8	23.8	17.5	136.53	16.6	19.0	1.0	<b>00505-030 00505-035</b>

\* WLL (Working Load Limit) 3:1 recommended as a guide only



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**HIGH FORCE COMPOSITE-DOUBLE BRAIDED  
CABLE PULLING ROPE (MADE IN USA)**



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
- 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		Average Breaking Strength*		Weight	
	mm		m		kN		Kg	
<b>4N-180-03S</b>	14.3		91		54.6		12.7	
<b>4N-180-06S</b>	14.3		182		54.6		28.6	
<b>4N-180-12S</b>	14.3		365		54.6		59.0	
<b>4N-240-03S</b>	19.1		91		114.5		26.3	
<b>4N-240-06S</b>	19.1		182		114.5		51.3	
<b>4N-240-12S</b>	19.1		365		114.5		104.3	
<b>4N-240-001</b>	19.1		500		114.5		142.9	
<b>SUITS GREENLEE 6001-22 CABLE PULLER</b>								
<b>4N-280-03S</b>	22.2		91		134.1		40.8	
<b>4N-280-06S</b>	22.2		182		134.1		80.7	
<b>4N-280-12S</b>	22.2		365		134.1		163.3	
<b>4N-280-001</b>	22.2		500		134.1		223.7	
<b>SUITS GREENLEE 6800-22 CABLE PULLER</b>								

\* 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**



**CABLE SOCKS - STANDARD TUBULAR CABLE GRIPS (MADE IN AUSTRALIA)**

**C SERIES – STANDAR**



C1 Series <sup>1</sup>	C7 Series
<ul style="list-style-type: none"> <li>• Two Ply</li> <li>• Galvanised Strand</li> <li>• Alloy Ferrule</li> <li>• Soft Eye</li> </ul>	<ul style="list-style-type: none"> <li>• Two Ply</li> <li>• Stainless Steel</li> </ul>

SOFT EYE - AL FERRULE Model No.	STAINLESS STEEL & THIMBLE Model No	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL 3:1 (kN)*
<b>C1006</b>	<b>C7006</b>	6-12	350	5	1.7
<b>C1010</b>	<b>C7010</b>	10-14	350	5	1.7
<b>C1014</b>	<b>C7014</b>	14-19	400	9	3.0
<b>C1019</b>	<b>C7019</b>	19-28	500	15	5.0
<b>C1028</b>	<b>C7028</b>	28-40	600	24	8.0
<b>C1040</b>	<b>C7040</b>	40-55	800	35	11.7
<b>C1055</b>	<b>C7055</b>	55-75	900	62	20.7
<b>C1075</b>	<b>C7075</b>	75-95	1000	98	32.7
<b>C1095</b>	<b>C7095</b>	95-120	1200	133	44.3
<b>C1120</b>	<b>C7120</b>	120-150	1400	187	62.3
<b>C1150</b>	<b>C7150</b>	150-190	1600	283	94.3

Copper ferrule C3 series available for reduced spark environments  
\* WLL (Working Load Limit) 3:1 recommended as a guide only.

**HEAVY DUTY GRADED TUBULAR WEAVE**

**HDGW SERIES**

**Construction:**

- Multi Ply
- Galvanised Strand
- Alloy Ferrule
- Soft Eye
- Copper Sleaving



**HDGWCS**  
designed for  
passage through  
overhead  
stringing rollers

HDGWCS Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
<b>HDGW08CS</b>	8-11	700	28	9.3
<b>HDGW10CS</b>	10-15	750	37	12.3
<b>HDGW15CS</b>	15-21	810	57	19.0
<b>HDGW20CS</b>	20-27	1040	73	24.3
<b>HDGW27CS</b>	27-35	1160	101	33.6
<b>HDGW32CS</b>	32-37	1160	101	33.6

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.



Other Sock Styles & Configurations Available Request



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**FLAT, GROUND & RAISED ROLLERS**

All units chrome zinc plated finish and choice of polypropylene or aluminium roller.



FGR/FGRA Series Flat Ground Roller	NTR/NTRA Series Flat Trench Roller	RTR/RTRA Series Raised Trench Roller
Small and cost effective unit to use in flat conditions. The frame features three holes either side for mounting to walls or cable trays, etc.	A durable trench roller guide that can also be turned on its side for corner pulls. The roller is placed behind the direction of pull and is offset from centre to reduce the possibility of tipping forward during pulling operations.	This trench roller guide is designed for instances where an existing cable or conduit is in place. The roller is placed behind the direction of pull and is offset from centre to reduce the possibility of the roller tipping forward during pulling operations.

Model No.	Dimensions (mm)	Roller Type	Replace Roller Model	WLL* (kg)	Max Cable (mm OD)	Weight (kg)
<b>FGR-140</b>	250 x 240 x 130	Polypropylene	<b>PR-140</b>	500	150	1.80
<b>FGRA-140</b>	250 x 240 x 130	Aluminium	<b>ALR-140</b>	1000	150	3.20
<b>FGRA-205</b>	285 x 240 x 150	Aluminium	<b>ALR-205</b>	1500	195	5.10
<b>NTR-120</b>	330 X 170 X 150	Polypropylene	<b>PR-140</b>	500	150	1.20
<b>NTRA-120</b>	330 X 170 X 150	Aluminium	<b>ALR-140</b>	1000	150	2.80
<b>NTRA-205</b>	330 x 225 x 170	Aluminium	<b>ALR-205</b>	1500	195	5.00
<b>RTR-140</b>	330 x 220 x 250	Polypropylene	<b>PR-140</b>	500	150	2.10
<b>RTRA-140</b>	330 x 220 x 250	Aluminium	<b>ALR-140</b>	1000	150	3.10
<b>RTRA-205</b>	330 x 270 x 250	Aluminium	<b>ALR-205</b>	1500	195	5.30

\*WLL 2:1 Safety Factor

ALR Series: Aluminium roller with sealed bearings to suit cables up to ø150mm (ALR-140) & ø195mm (ALR-205).

PR-140: Plastic roller with bearings to suit cables up to ø140mm.

**CURVED & CORNER TRENCH ROLLER GUIDES**

Solid construction trench roller guides for manholes with provisions to peg the units down. Rollers supplied with twin internal bearings. Zinc plated finish on all units.



TRGM-140-3A45	TRGM-140-900R	TRGM-140-4A90
45° Curve	45° Curve - Large	90° Corner (Adjustable rollers, can be set on side)

Model No.	Dimensions (mm)	Angle (°)	Bend Radius (mm)	No. of Rollers	Max Cable (mm OD)	Weight (kg)
<b>TRGM-140-3A45</b>	590 x 230 x 220	45	500	3	150	9.60
<b>TRGM-140-900R</b>	820 X 230 X 245	45	900	4	150	12.50
<b>TRGM-140-4A90</b>	690 x 690 x 200	90	-	4	150	15.00

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**MANHOLE ROLLER GUIDE**



**TRGM-100**



**TRGM-100-2**



**TRGM100-3**



**PMCG & PMRG SERIES PIVOTING MANHOLE GUIDES**



**PMCG Series**



**PMRG Series**



**CABLE TRAY ROLLERS (ALL ROLLERS HAVE ROLLER BEARINGS)**



**CTRA-140**



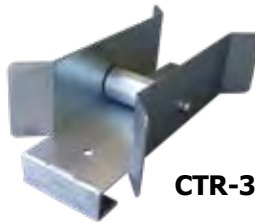
**CTR-140**



**CTR-50**



**CTR-60C-5R**

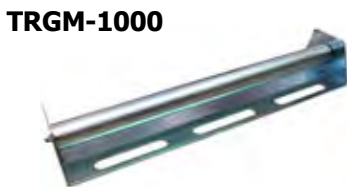


**CTR-360**



**CTR500-15R**

**LONG FEEDING TRENCH ROLLER GUIDES**



**TRGM-1000**



**TRGM-700**



**TRGM1000-2R**

**TCR SERIES TRENCH CORNER ROLLERS**



**TCR60-230**



**TCRI60-230**



**TCR78-300**



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**FEEDING SHEAVES & GUIDES**

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Image	Model No. *	Dimensions (mm)	Conduit Nom. OD (mm)	Approx Equip OD (mm)	Weight (kg)	
 <p><b>IFS Series</b></p>	<b>IFS-050E</b>	255 X 120 X 115	50	42	1.60	
	<b>IFS-050T</b>	255 X 130 X 115	50	48	1.60	
	<b>IFS-063E</b>	255 X 140 X 115	63	48	1.60	
	<b>IFS-063T</b>	250 X 155 X 110	63	60	1.70	
	<b>IFS-080</b>	250 X 200 X 140	80	74	1.80	
	<b>IFS-100</b>	250 X 220 X 155	100	98	2.80	
	<b>IFS-125</b>	250 x 240 x 165	125	118	3.20	
	<b>IFS-150</b>	250 x 260 x 175	150	138	4.40	
	 <p><b>FS Series</b></p>	<b>FS-050E</b>	370 X 160 X 180	50	38	2.90
		<b>FS-050T</b>	380 X 160 X 180	50	48	3.30
<b>FS-063E</b>		380 X 160 X 180	63	48	3.30	
<b>FS-063T</b>		380 X 160 X 180	63	60	3.30	
<b>FS-080</b>		370 X 170 X 200	80	74	3.50	
<b>FS-100</b>		390 X 190 X 210	100	98	5.60	
<b>FS-125</b>		390 X 200 X 220	125	118	6.10	
<b>FS-150</b>		400 X 230 X 230	150	138	6.40	
<b>FS-200</b>		460 X 280 X 320	200	190	13.90	
 <p><b>FS-***-4R Series</b></p>		<b>FS-080-4R</b>	360 x 200 x 170	80	74	5.20
	<b>FS-100-4R</b>	380 x 220 x 180	100	98	6.50	
	<b>FS-125-4R</b>	390 X 230 X 260	125	118	7.00	
	<b>FS-150-4R</b>	390 X 260 X 280	150	138	7.90	
	<b>FS080-4A90</b>	900 X 620 X 260	80	74	12.20	
	<b>FS100-4A90</b>	900 X 620 X 260	100	98	15.00	
	<b>FS125-4A90</b>	900 X 620 X 260	125	118	15.00	
	<b>FS150-4A90</b>	900 X 620 X 260	150	138	15.00	
	<b>FS200-4A90</b>	900 X 620 X 260	200	190	23.80	

\* "T" for Telecommunications Conduit or "E" for Electrical Conduit

**CS & CLS SERIES STANDARD & LOCKABLE CONDUIT SLIPPER GUIDE**

Cable slippers cables from sharp corners of conduit during laying. They are robust and economical with much thicker material than the cheaper versions on the market. Zinc plated finish. CLS series are lockable.

Model No. *	Dimensions (mm)	Conduit Nom. OD (mm)	Approx Equip OD (mm)	Weight (kg)
<b>CS-050E</b>	310 X 50 X 85	50	42	0.50
<b>CS-050T</b>	310 X 50 X 85	50	48	0.50
<b>CS-063E</b>	310 X 50 X 85	63	48	0.50
<b>CS-063T</b>	310 X 50 X 85	63	60	0.50
<b>CS-080</b>	465 X 90 X 150	80	74	1.30
<b>CS-100</b>	560 X 110 X 180	100	98	2.50
<b>CS-125</b>	720 X 140 X 230	125	118	4.90
<b>CS-150</b>	750 x 160 x 250	150	138	5.30
<b>CLS-050E</b>	310 x 130 x 150	50	38	1.20
<b>CLS-050T</b>	310 x 130 x 150	50	48	1.20
<b>CLS-063E</b>	310 x 130 x 150	63	48	1.20
<b>CLS-063T</b>	310 x 130 x 150	63	60	1.20
<b>CLS-080</b>	410 x 160 x 250	80	74	2.50
<b>CLS-100</b>	550 x 190 x 340	100	98	4.60
<b>CLS-125</b>	680 x 220 x 410	125	118	6.80
<b>CLS-150</b>	720 x 250 x 450	150	138	7.20



\* "T" for Telecommunications Conduit or "E" for Electrical Conduit



**HOOK SHEAVES (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.	Greenlee Model No.	OD (mm)	Inside Radius (mm)	Sheave Width (mm)	Weight (kg)	WLL (kN)
<b>15324</b>	<b>650</b>	152	38	127	4.0	17.8
<b>15325</b>	<b>651</b>	305	84	127	6.8	17.8
<b>15326</b>	<b>652</b>	457	178	127	11.3	17.8
<b>15327</b>	<b>653</b>	610	249	127	15.9	17.8



**SPARE PARTS**

Sheave Model No.	<b>15324</b>	<b>15325</b>	<b>15326</b>	<b>15327</b>
Diameter (mm)	152	305	457	610
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

**Model No. 17265 RIGHT ANGLE TWIN YOKE SHEAVE (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	<b>17266</b>
Sheave Pin Clip (2)	<b>50302</b>
Sheave	<b>15364</b>
Sheave Bushing (2)	<b>16798</b>
Yoke Frame	<b>17299</b>

Model No.	<b>17265</b>
Greenlee Model No.	639
Opening	25.4
Min Radius (mm)	249
Sheave Width (mm)	127
WLL (kN)	17.8
Wt (kg)	20.4

**Model No. 31569 TRIPLE SHEAVE CABLE GUIDE (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.	Greenlee Model No.	Height (mm)	Length (mm)	Width (mm)	Adjustable Centre Sheave Radius (mm)	Sheave Width (mm)	Weight (kg)	WLL (kN)
<b>31569</b>	<b>6036</b>	555	610	187	495/914	127	12.7	28.9



**CONVEYOR SHEAVES**

- Welded steel frame with a series of sheaves to form a large radius
- Yokes with cast steel closure-type hooks with a 25.4mm opening
- 127 mm wide aluminium alloy sheaves
- Use with any cable puller with maximum pulling force of 17.8kN

Model No.	Greenlee Model No.	Description	No. of Sheave Wheels	Max Pull Force (kN)	Wt (kg)
<b>26368</b>	<b>4024</b>	610mm Sheave	6	17.8	24.5
<b>26369</b>	<b>4036</b>	915mm Sheave	8	17.8	27.0
<b>26370</b>	<b>4048</b>	1220mm Sheave	10	17.8	38.0



REPLACEMENT PARTS	
<b>19185</b>	Yoke Frame
<b>15362</b>	Sheave with Bearings
<b>19186</b>	Sheave Pin
<b>50302</b>	Sheave Pin Clip
<b>31573</b>	Sheave Pin

**THESE SHEAVES IDEAL FOR WORKING WITH GREENLEE ELECTRIC CABLE PULLERS. USE ROLLER SUITABLE FOR MACHINE CAPACITY**

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**HOOK SHEAVES 35.8kN WLL (MADE IN USA)**

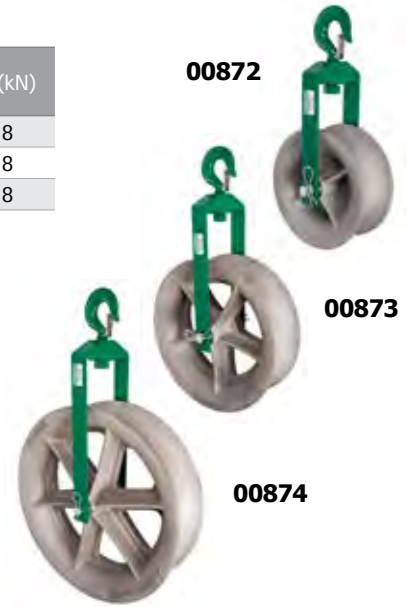


- Can be used with Greenlee.
- Strong, welded steel frames.
- Forged steel closure type hooks with 25.4mm opening.
- Sheaves are aluminium alloy with self-lubricating bearings.

Model No.	Greenlee Model No.	OD (mm)	Inside Radius (mm)	Width (mm)	Weight (kg)	WLL (kN)
<b>00872</b>	<b>8012</b>	305	98	127	12.7	35.8
<b>00873</b>	<b>8018</b>	458	178	152	19.9	35.8
<b>00874</b>	<b>8024</b>	610	251	165	30.3	35.8

**SPARE PARTS**

Sheave Model No.	<b>00872</b>	<b>00873</b>	<b>00874</b>
Diameter (mm)	305	458	610
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



**PIT & PILLAR ACCESSORIES**



Pit & Pillar Accessories



<b>PIT LID SEAL BREAKER</b> Model No. <b>PB-100</b>	<b>PIT LID LIFTER</b> Model No. <b>PK-500</b>	<b>PILLAR SPANNER 21 &amp; 26mm</b> Model No. <b>PS21-26</b>
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**THESE SHEAVES IDEAL FOR WORKING WITH GREENLEE ELECTRIC CABLE PULLERS. USE ROLLER SUITABLE FOR MACHINE CAPACITY**



**WBC SERIES WIRE CLEANING BRUSH**

These wire brush cleaners are made with 22g wire strands and are complete with welded eyes at each end for pulling. For internal cleaning of ducts and conduits of debris. Galvanised finish.

Model No.	Dimensions OAL x W x H (mm)	Conduit Nom. OD (mm)	Brush Approx. OD (mm)	Wt (kg)
<b>WBC-050</b>	230 x 55 x 55	50	55	0.25
<b>WBC-063</b>	245 x 70 x 70	63	70	0.25
<b>WBC-080</b>	390 x 90 x 90	80	90	0.60
<b>WBC-100</b>	435 x 110 x 110	100	110	0.60
<b>WBC-125</b>	470 x 130 x 130	125	130	0.65
<b>WBC-150</b>	470 x 130 x 130	150	130	0.80
<b>WBC-200</b>	600 x 230 x 230	200	230	0.90



**CRC SERIES CONDUIT RUBBER CLEANER**

The Conduit rubber cleaner (or Squeegee) is manufactured with four rubber squeegees and a pulling eye at each end for hauling. Large debris should be removed first with WBC wire brush then with CRC to remove finer sediment like gravel and mud, etc. Zinc plated finish on metal components. For conduits below 80mm please specify whether it is to service a telecommunication or electrical conduit.

Model No. *	Dimensions OAL x W x H (mm)	Conduit Nom. OD (mm)	Cleaner Approx. OD (mm)	Wt (kg)
<b>CRC-050E</b>	160 x 46 x 46	50	46	0.25
<b>CRC-050T</b>	160 x 53 x 53	50	53	0.25
<b>CRC-063E</b>	160 x 58 x 58	63	58	0.25
<b>CRC-063T</b>	160 x 66 x 66	63	60	0.30
<b>CRC-080</b>	250 x 85 x 85	80	85	1.05
<b>CRC-100</b>	250 x 107 x 107	100	107	0.80
<b>CRC-125</b>	250 x 130 x 130	125	130	1.00
<b>CRC-150</b>	250 x 148 x 148	150	148	1.15
<b>CRC-200</b>	250 x 205 x 205	200	205	1.85



\* "T" for Telecommunications Conduit or "E" for Electrical Conduit

**DPM SERIES CONDUIT PROVING MANDRELS**

Proving mandrels are used to test the circular integrity of a conduit after back filling. Made from high density polyethylene for long durability and inherent lubricity. Each DPM is assembled with galvanised wire rope and aluminium ferrules to create an eye at each end for fixing of rope for hauling.

Model No. *	Dimensions OAL x W x H (mm)	Conduit Nom. OD (mm)	Mandrel Approx. OD (mm)	Wire OD (mm)	Mandrel Length (mm)	Wt (kg)
<b>DPM-014T</b>	24 x 14 x 14	14	14	^	^	< 0.5
<b>DPM-018T</b>	30 x 18 x 18	18	18	^	^	< 0.5
<b>DPM-024T</b>	40 x 24 x 24	24	24	^	^	< 0.5
<b>DPM-028T</b>	45 x 28 x 28	28	28	^	^	< 0.5
<b>DPM-032T</b>	55 x 32 x 32	32	32	^	^	< 0.5
<b>DPM-038T</b>	60 x 38 x 38	38	38	^	^	< 0.5
<b>DPM-040E</b>	210 x 31 x 31	40	31	5	60	0.06
<b>DPM-050E</b>	270 x 40 x 40	50	40	6	80	0.15
<b>DPM-050T</b>	270 x 47 x 47	50	47	6	80	0.15
<b>DPM-063E</b>	350 x 52 x 52	63	52	8	100	0.30
<b>DPM-063T</b>	350 x 60 x 60	63	60	8	100	0.35
<b>DPM-080</b>	500 x 74 x 74	80	74	10	180	0.95
<b>DPM-100</b>	500 x 90 x 90	100	90	10	180	2.00
<b>DPM-125</b>	565 x 118 x 118	125	113	12	245	2.85
<b>DPM-150</b>	565 x 130 x 130	150	130	12	245	3.20
<b>DPM-200</b>	600 x 184 x 184	200	184	12	280	4.50



\* "T" for Telecommunications Conduit or "E" for Electrical Conduit

^ Specifications on demand

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## RS SERIES RUBBER SLUG

The Rubber slug is use to spread cable lubricant or gel through a conduit. Supplied in sizes to suit conduits from 50mm to 200mm. Zinc plated finish.

**ALWAYS MEASURE CONDUIT ID**



Model No. *	Dimensions OAL x W x H (mm)	Conduit Nom. OD (mm)	Slug Approx. OD (mm)	Wt (kg)
<b>RS-050E</b>	50 x 46 x 46	50	46	0.15
<b>RS-050T</b>	50 x 53 x 53	50	53	0.15
<b>RS-063E</b>	50 x 58 x 58	63	58	0.30
<b>RS-063T</b>	60 x 66 x 66	63	66	0.35
<b>RS-080</b>	80 x 85 x 85	80	85	0.95
<b>RS-100</b>	100 x 107 x 107	100	105	2.00
<b>RS-125</b>	100 x 130 x 130	125	130	2.85
<b>RS-150</b>	100 x 148 x 148	150	149	3.20
<b>RS-200</b>	170 x 205 x 205	200	205	1.05

\* "T" for Telecommunications Conduit or "E" for Electrical Conduit

## 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.
- Completely soluble in water



Size examples



Model No.	Description	Volume (L)	Weight (kg)	Viscosity (CPS)	Ph Range	Average Cof
<b>35211</b>	Cable-Gel Squeeze Bottle	0.95	1	8,000 -12,000	7.0-8.0	0.18
<b>35212</b>	Cable-Gel Tub	3.79	3.9	8,000 -12,000	7.0-8.0	0.18
<b>35213</b>	Cable-Gel Bucket	18.93	20.4	8,000 -12,000	7.0-8.0	0.18

MSDS (Material Safety Data Sheet available upon request)





**ELECTRIC BLOWER KIT**

This high volume, low pressure blowing system is used to blow a balloon type bag attached to a draw line or string down a conduit. The draw line is then used to pull a heavier hauling rope back to your start position. This system can easily rope a 100mm conduit 300-500 metres. Dual stage motors, 230VAC/50Hz Electric Power Blower. 1300W delivering approximately 3.5 cubic metres of air per minute.

**BLOWING DISTANCE Blow 1,000m into 15-160mm Conduit (Empty)**



**EBK2-130K KIT INCLUDES:**

- 1 x Blower EBK2-1300
- 5m x 50mm hose EBP-5M50
- 1 x Hand-Gun EBH-30
- 1 each Conduit Seal-Offs Refer below table for sizes

Model No.	DESCRIPTION
<b>EBK2-130K</b>	Complete Blowing Kit
<b>EBK2-1300</b>	Blower Unit Only (11.9kg)

Model No.	DESCRIPTION
<b>ECS-12</b>	Conduit seal off for 12 to 40mm
<b>ECS-50</b>	Conduit seal off for 40 to 70mm
<b>ECS-110</b>	Conduit seal off for 70 to 160mm



- 1 each Rope grommets 3mm, 5mm and 7mm

**CRB SERIES CONDUIT ROPE BLOWER**

This pneumatic conduit seal off was designed so to eliminate the need for multiple size seal off plugs, the tapered head for allows use on 40-150mm conduit (170mm at largest point so suitable for 150mm conduit bell end). Suitable for blowing 6mm Tesltra rope (Parramatta) on longer runs or jet line or twine on smaller runs. Made from 316 grade stainless steel with solid polyurethane cone. It requires a large compressor to operate (2.1cm<sup>3</sup> 75 CFM minimum) with 3/4" Claw Air Fitting (Minsup A). CRBA-125 has an angled end to tight spots or pits.

Model No.	Suits Conduit (mm)	Length (mm)	Weight (kg)
<b>CRB-150</b>	50-150	630	4.1
<b>CRBA-125</b>	40-125	550	3.2



**ACCESSORIES**

BALLOON LINE CARRIERS, CONDUIT SEAL OFFS and COMPRESSOR BLOWERS also available.



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## CONTINUOUS FIBREGLASS RODS COILS

Continuous coils of fibreglass rod, ideal for long distance rodding of conduits.

The rod 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 (the 9mm & 11mm are supplied with wheels\*\*) and a drag brake for holding the rod during operation, a threaded male fitting and removable eye on the outward end and a fixed eye on the inner end. The 9mm & 11mm also include a joining kit which consists of 2 joiners, 1 replacement eye, threaded end, glue and fitting instructions.

## SIZES AND LENGTHS (All Sizes Include Trace Wire)

Model No.	Description	Length (m)	Wt (kg)	Replacement Rod
<b>FRD5-40*</b>	5mm Fibreglass Rodder	40	4	<b>FRR5-40</b>
<b>FRD5-80*</b>	5mm Fibreglass Rodder	80	4	<b>FRR5-80</b>
<b>FRD7-75*</b>	7mm Fibreglass Rodder	75	9	<b>FRR7-75</b>
<b>FRD7-125*</b>	7mm Fibreglass Rodder	125	13	<b>FRR7-125</b>
<b>FRD7-150*</b>	7mm Fibreglass Rodder	150	16	<b>FRR7-150</b>
<b>FRD9-150**</b>	9mm Fibreglass Rodder	150	38	<b>FRR9-150</b>
<b>FRD9-200**</b>	9mm Fibreglass Rodder	200	44	<b>FRR9-200</b>
<b>FRD11-200**</b>	11mm Fibreglass Rodder	200	55	<b>FRR11-200</b>
<b>FRD11-250**</b>	11mm Fibreglass Rodder	250	62	<b>FRR11-250</b>
<b>FRD11-300**</b>	11mm Fibreglass Rodder	300	73	<b>FRR11-300</b>



\* Free Standing

\*\* Include Semi-Pneumatic Wheels

## ACCESSORIES – Available for 5mm, 7mm, 9mm & 11mm rods



Model No.	<b>FEE-05 &amp; FEE-7-11</b>	<b>SE9-11</b>	<b>RG-5, RG-7 &amp; RG-9-11</b>	<b>ME-05, ME-07, ME-09, ME-11</b>	<b>JS-05, JS-07, JS-09, JS-11</b>	<b>SL-5, SL-7, SL-9, SL-11</b>	<b>FL9-11</b>	<b>PR040B</b>
Description	Female End Fitting for 5, 7, 9, 11mm Rod	Swivel Eye for 9 & 11mm Rod	Roller Guide for 5mm, 7mm & 9-11mm Rod	Male End for 5, 7, 9 & 11mm Rod	Joiner for 5, 7, 9 & 11mm Rod	Spring Leader for 5, 7, 9 & 11mm Rod	Fibreglass Leader for 9 & 11mm Rod	Replacement Rollers for FRD9/11

## JOINER FIXING KITS

Repair Kit Model No.	Rod OD (mm)	Each Kit Contains	
		QTY	Description
<b>JK-05</b>	5	2	Joiner Sleeves
<b>JK-07</b>	7	1	Male End Fitting
<b>JK-09*</b>	9	1	Female End Fitting with Eye
<b>JK-11*</b>	11	1	Fitting Instruction
		2	Epoxy Glue, Mixing Sticks & Sheets, Sandpaper Strips (Model No. FRDG)



\*Joiner Fixing Kit Supplied as standard with 9mm & 11mm Rodders.

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**

- Lightweight and transportable
- Folds flat for storage and transport
- Suits a wide range of Cable Drums 450-1,700mm in diameter
- Used in Industrial situation on flat ground
- Includes a safety bar, to stop the drum rolling off

Model No.	Description	Min/Max Drum Diameter (mm)	WLL (kg)	Weight (kg)
<b>DRR-1000</b>	CABLE DRUM RAMP	450/1700	1000	28 pair
Dimensions (mm)		1350 x 210 x 250 (LxWxH)		
Folded Dimensions (mm)		750 x 210 x 250 (LxWxH)		



**DRR-1000 Shown Folded**

**CABLE DRUM TROLLEY Model No. CDT-500**

- Lightweight and transportable
- Folds flat for storage and transport
- Four Mounting Positions Suits a range of cable drums
- Used in Industrial situation with powder coated finish
- Includes two pneumatic wheels and one solid plastic wheel with brake
- Axle and four retaining collars

Model No.*	Description	Usable Axle Length (mm)	Axle Diameter (mm)	Drum Diameter (mm)		WLL (kg)	Weight (kg)
				Min	Max		
<b>CDT-500</b>	CABLE DRUM TROLLEY	900	50	750 Lowest Position	1500 Highest Position	250	42
Dimensions (mm)		1745 x 1285 x 1000 (LxWxH)					
Folded Dimensions (mm)		1340 x 1285 x 335 (LxWxH)					

Optional winding handle model available with drum fixing arm



**CDT-500 Folds Down for Storage & Transport**



**CABLE DRUM CADDY Model No. CDC-150**

- Lightweight and transportable
- A combination of Rolled arches, self-lubricating Acetyl blocks and a cranking ratio of 7.9:1, aid with the lifting of cable drums
- Lifts drums up to 1200mm W x 950mm diameter
- 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 Diam. (mm)	Max Drum Width (mm)	WLL kg	Weight Kg
<b>CDC-150</b>	CABLE DRUM CADDY	950	1200	150	40
Dimensions (mm)		1410 x 1300 x 855 (LxWxH)			



**Model No. CDC-150**

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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-150

- Lightweight and transportable
- Cable Drum Frame utilises a leverage of approximately 6:1 to aid with the lifting
- Lifts drums up to 1500mm OD x 1000mm wide
- Includes a 50mm Axle and two retaining collars
- Ideal for factory or workshop environment

Model No.	Description	Dimensions (mm)	Max Drum Diameter mm	Max Drum Width mm	WLL Kg	Weight kg
<b>DL-150</b>	CABLE DRUM LEVER	1780 x 1260 x 830 (LxWxH)	1400	970	150	25



## ROPE STAND Model No. CRS-290

- 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	Dimensions (mm)	Drum Width mm		Weight kg
			Min	Max	
<b>CRS-290</b>	CABLE REEL STAND	1780 x 1260 x 830 (LxWxH)	SMALL BUILDERS CABLE DRUMS*		5.8

\*Maximum 700mm

Dimensions (mm)	900 x 531 x 400 (LxWxH)
Folded Dimensions (mm)	900 x 531 x 140 (LxWxH)



## ROPE CADDY Model No. CRC-600

- Lightweight and transportable
- Suitable for Workshop & Worksite applications
- Axle 90mm OD
- Complete with drum seated on grease able bearings, crank handle and two pneumatic wheels for mobility over rugged terrain
- Frame is powder coated, barrel zinc plated finish
- Manufactured with mandrel bent pipe work for maximum strength

Model No.	Description	Max Drum Width mm	Weight kg
<b>CRC-600</b>	CABLE DRUM CADDY	500	30
Dimensions (mm)	800 x 930 x 1090 (LxWxH)		
Capacity	2,100m of 6mm rope, 1,300m of 8mm rope, 550m of 12mm rope, 320m of 16mm rope		



**CRC-600**

## ROPE STAND Model No. RS-2419

- Axle 50mm OD
- Simple but very rigid stand to suit drums of rope or cabling. C/W washer and snap lock pin to retain drums. Black powder coated finish

Model No.	Description	Dimensions (mm)	Max Drum Width mm	Max Drum OD mm	Weight kg
<b>RS-2419</b>	ROPE STAND	590 x 500 x 366 (LxWxH)	480	600	11.8

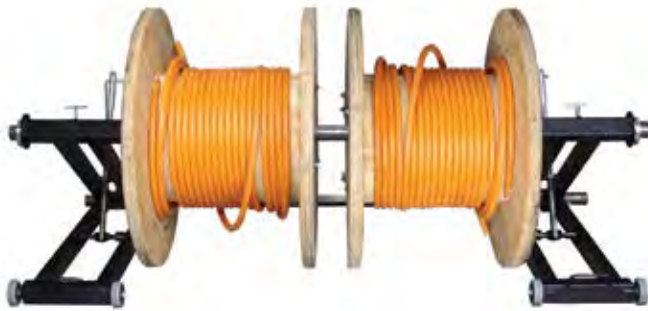
**RS-2419  
60Kg WLL**



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**



**SLS1-2T** Shown with cable drums mounted

- Manoeuvrable and transportable
- Designed for rugged use
- Well suited for uneven ground as the individual lifting screws can be adjusted separately
- Sealed directional bearings (insert) aid the ease of lifting and lowering of cable drums
- Two stands with wheels for transportation, and placement collars to retain drums and a ground joining bar for rigidity during operation
- Stamped and registered load bearing axle
- Winding via spin handle
- Includes Operating Instructions, WLL labelling and Compliance Certificate

Model No.	Description	Kit Contents	Drum Dia mm Max	Useable Drum Axle Length (mm)	Drum Axle Dimensions [Diam x Length] (mm)	Joining Bar Dimensions (mm)	WLL Kg	OAL (mm)	Width (mm)	Max Angle (°)	Max Height (mm)
<b>SLS0.5T</b>	<b>SCISSOR LIFT DRUM SET</b>	2 x Complete Stands with Rubber Wheels	1200	1000	50 x 1500 <b>(DA15-50)</b>	Not Supplied	500	1000	200	55	670
<b>SLS1-2T</b>		1 x Stamped & Registered Drum Axle	1600	1700	60 x 2300 <b>(DA23-60)</b>	60 x 2300 <b>(DA23-60J)</b>	2000	1380	400	55	925
<b>SLS3-4T</b>		1 x Ground Joining Bar (SLS1-2 & SLS3-4 Only) 2 x Retaining Collars	2600	2000	90 x 2300 <b>(DA23-90)</b>	90 x 2300 <b>(DA23-90J)</b>	4000	1780	400	60	1330



**SLS0.5T** shown with rope drum



**SLS0.5T** shown locked together for storage

**500KG "NEW" COMPACT DESIGN FEATURES**

- LOCKS TOGETHER FOR EASE OF STORAGE AND TRANSPORT
- 500KG CAPACITY
- ACCEPTS DRUMS UP TO 1.2M OD

Shipping Dimensions, both kits contain a Carton on Pallet & Skid with Axle.

Model No.	Dimensions (mm)		Weight (kg)	
	Carton on Pallet	Skid with Axles	Carton on Pallet	Skid with Axles
<b>SLS0.5T</b>	1000 x 200 x 150	2300 x 150 x 120	38	30
<b>SLS1-2T</b>	1400 x 710 x 370	2500 x 180 x 150	90	40
<b>SLS3-4T</b>	1850 x 500 x 550	2500 x 200 x 180	120	50

Cones & Collars available to suit:

Model No.	Axle OD	Cones Model	Collars Model
<b>SLS1-2T</b>	60	<b>DAC-060</b>	<b>DSC-060</b>
<b>SLS3-4T</b>	92	<b>DAC-090</b>	<b>DSC-090</b>

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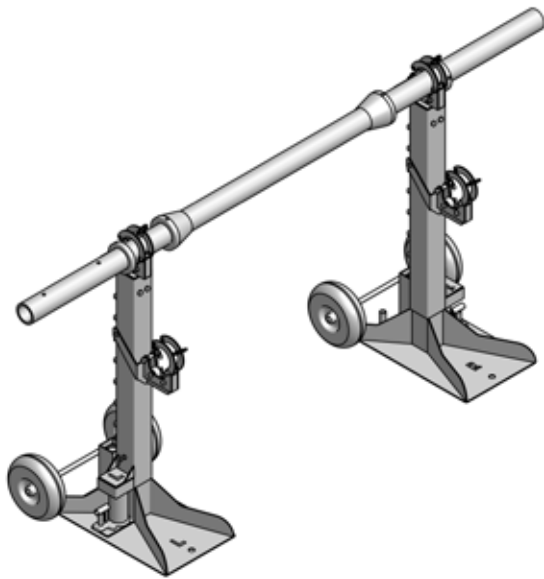
## 8T HYDRAULIC DRUM JACK STAND MODEL No. DJS-58T

- Durable and sturdy and ready for tough jobs (quality Japanese hydraulic bottle jacks)
- Manoeuvrable and transportable
- Rated plates marked with 8,000kg and supplied with test report
- Supplied standard with 90mm axle (DA28-90HB) 2 cones & 2 collars for securing the drum, special size axles available upon request (refer below)
- Supplied with two jack extensions which gives users an additional 250mm of lift
- Two frontal roller assemblies which slides in 10 x 100mm positions for smaller drums

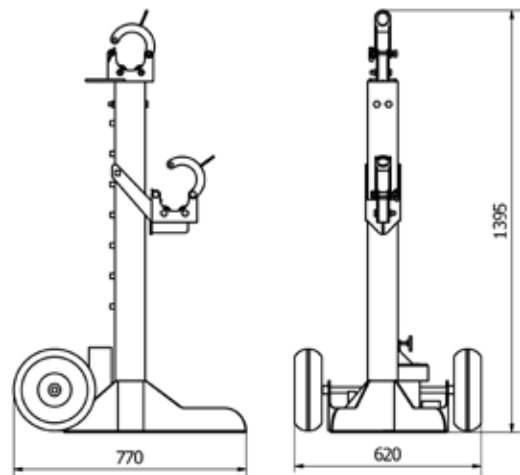
Model No.	Description	Drum Dia mm	Drum Width (mm)	WLL Kg
		Max		
<b>DJSC-58T</b>	HYDRAULIC DRUM JACK STAND WITH BRAKE & FIXING ARM (SEE BELOW)	3300	1800	8000
<b>DJS-58T</b>	HYDRAULIC DRUM JACK STAND	3300	1800	8000

### OPTIONAL ACCESSORIES

Model No.	Description	Suits
<b>DB-900</b>	DISC BRAKE (Supplied with below <b>DFA-90</b> )	90mm AXLE <b>DA28-90HB</b>
<b>DFA-90</b>	DRUM FIXING ARM	90mm AXLE <b>DA28-90HB</b>



Max drum size of 3.3m 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 Jacks with Handles
2	Wheel Axle with split pins and washers
4	Pneumatic wheel 127mm OD
2	Drum Centering Cones
2	250mm Extension blocks
2	Axle Retaining Collars
1	Instruction sheet
1	Certificate

### TRANSPORT DIMENSIONS

Item	Dimension (cm)	Wt (kg)
Box	110 x 75 x 65	140
Axle	280 x 15 (OD)	56

### SPARE PARTS

Model No.	Description
<b>DB200</b>	Spacer – Fits under bottle jack to extend height
<b>MH-7</b>	Bottle Jack - Replacement



**8T HYDRAULIC DRUM JACK STAND MODEL No. DJS-58T  
(CONTINUED)**

**ACCESSORIES & ALTERNATE AXLES**

**Top Roller Assembly**

**Side Roller Assembly**

**DFA-90 DRUM FIXING ARM  
DB-900 DISC BRAKE**

**DJS-58T Assembled**

**NOTE – Only 1 axle supplied with unit.**

1. Axle can be positioned on the top holders with **8,000kg WLL.**
2. Axle can also be mounted on the middle with a maximum of **4,000kg WLL**

**DJS-58T Stands side view**

**DB-900 DISC BRAKE  
Shown with fixing arm (Included)**

**DFA-90 DRUM FIXING ARM**

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**OPTIONAL AXLE SPECIFICATIONS**

Axle Model No.	Drum Axle Cones Model No.	DAC Suits Centre Holes Up to (mm)	Shaft Collars Model No.	Drum Fixing Arm & Brake Model No.	Type	Length (m)	OD (mm)	WLL (Tonne)
<b>DA15-50</b>	<b>N/A</b>	<b>N/A</b>	<b>DCS-050</b>	<b>N/A</b>	Pipe	1.5	50	0.5
<b>DA25-60</b>	<b>DAC-060</b>	105	<b>DSC-060</b>	<b>N/A</b>	Pipe	2.5	60	2
<b>DA25-90</b>	<b>DAC-090</b>	135	<b>DSC-090</b>	<b>N/A</b>	Pipe	2.5	89	4
<b>DA28-40S</b>	<b>DAC-040</b>	105	<b>DSC-040</b>	<b>DB-400</b>	Solid	2.8	40	5
<b>DA28-66HB</b>	<b>DAC-066</b>	105	<b>DSC-066</b>	<b>DB-660</b>	Pipe	2.8	66	8
<b>DA28-70HB</b>	<b>DAC-070</b>	105	<b>DSC-070</b>	<b>DB-700</b>	Pipe	2.8	72	8
<b>DA28-90HB*</b>	<b>DAC-090</b>	135	<b>DSC-090</b>	<b>DB-900</b>	Pipe	2.8	92	8
<b>DA28-90XH</b>	<b>DAC-090</b>	135	<b>DSC-090</b>	<b>DB-900</b>	Pipe	2.8	92	12
<b>DA33-100XH</b>	<b>DAC-100</b>	135	<b>DSC-100</b>	<b>DB-100</b>	Pipe	3.3	100	16

\* **DA28-90HB** axle is included with purchase of **DJS-58T** package.

**TROLLEY WIRE GRIPS (MADE IN JAPAN)**



**PATENTED HI-TOOL GRIPS**



Trolley-20

Trolley-30

Trolley-60

For Trolley Cable, Wire Rope, Bare Copper & Covered Cable, Guy Wire



Feeder-MT20

Feeder-LG30

AL-50KN-GRIP

AL-60KN-GRIP

For Feeder Cable, Bare AL, ACSR Copper Cable

**SPECIFICATIONS**

Model No.	Specifications						Cable/Conductor Types						Safety				
	WLL (kN)	Min (mm) Ø	Max (mm) Ø	Jaw Length (mm)	Eye Size (mm)	Weight (kg)	Trolley Cable	Wire Rope	Bare Cu & Covered	Guy Wire	Feeder Cable	Bare Al/ACSR	Copper Cable	Safety Latch	Trigger Grip	Spring Latch	Lockable
<b>TROLLEY-20</b>	20	5	22	90	34x43	1.8	✓	✓	✓	✓				✓	✓	✓	✓
<b>TROLLEY-30</b>	30	5	22	90	34x43	1.8	✓	✓	✓	✓				✓	✓	✓	✓
<b>TROLLEY-60</b>	60	8	28	140	43x51	3.5	✓	✓	✓	✓				✓		✓	✓
<b>FEEDER-MT20</b>	20	5	28	120	34x43	1.9					✓	✓	✓	✓	✓	✓	✓
<b>FEEDER-LG30</b>	30	17	35	120	34x43	2.5					✓	✓	✓	✓	✓	✓	
<b>AL-50KN-GRIP</b>	50	18	28	180	43x51	4.7					✓	✓	✓	✓			
<b>AL-60KN-GRIP</b>	60	28	46	220	60x51	7.0					✓	✓	✓	✓			



**WIRE GRIPS (MADE IN JAPAN)**

**HI-TOOL CO., LTD**

**STANDARD RANGE OF OVERHEAD & ELECTRICAL GRIPS**



SD-S-GRIP



NEW-SD-GRIP



10KN/20KN/35KN/MIGHTY/  
LARGE/AL-10KN to AL-35KN



H-MIGHTY-20KN-GRIP to  
H-LARGE-30KN-GRIP



40KN-GRIP



AL-50KN-GRIP & AL-60KN-GRIP



ABC-S-GRIP



ABC-M-GRIP/ABC-L-GRIP

**SPECIFICATIONS**

Model No.	Specifications					Suitable For (Material Type)										Safety		Eye
	WLL (kN)	Min Cable Ø (mm)	Max Cable Ø (mm)	Jaw Length (mm)	Weight (kg)	Bare Cu Cable	Bare ACSR	Bare AAC	ABC	Covered Cable	Trolley Wire	Guy Wire	Wire Rope	Steel Rod	Barbed Wire	Safety Latch	Trigger Grip	Eye Size
<b>For Copper Cable, Coverd Cable, Guy Wire, Wire Rope</b>																		
NEW-SD-GRIP	10	2.6	15	*	0.6	Y				Y		Y		Y	Y	Y	Y	25x30
SD-S Grip	10	3	13	50	0.6	Y				Y		Y				Y	Y	25x30
10KN-GRIP	10	5	22	70	1.1	Y				Y	Y	Y		Y		Y	Y	26x30
20KN-GRIP	20	5	22	90	1.5	Y				Y	Y	Y		Y		Y	Y	32x42
20KN-W-GRIP	20	5	22	90	1.5	Y				Y	Y	Y	Y	Y		Y	Y	32x42
MIGHTY20-GRIP	20	5	28	120	1.9	Y				Y		Y		Y		Y	Y	32x42
LARGE20-GRIP	20	16	35	120	2.1	Y				Y				Y		Y	Y	32x42
30KN-GRIP	30	6	22	90	1.7	Y				Y	Y	Y	Y	Y		Y	Y	32x42
LARGE30-GRIP	30	18	35	120	2.4	Y				Y				Y		Y	Y	32x42
40KN-GRIP	40	8	28	140	3.5	Y				Y	Y	Y	Y	Y		Y	Twist	43x51
<b>For Bare Aluminum, ACSR, ACSS, AAC, Copper Cable</b>																		
AL-10KN-GRIP	10	5	22	70	1.1	Y	Y	Y								Y	Y	26x30
AL-20KN-GRIP	20	5	22	90	1.5	Y	Y	Y								Y	Y	32x42
AL-MIGHTY20-GRIP	20	5	28	120	1.9	Y	Y	Y								Y	Y	32x42
AL-LARGE20-GRIP	20	16	35	120	2.1	Y	Y	Y								Y	Y	32x42
AL-30KN-GRIP	30	6	22	90	1.7	Y	Y	Y								Y	Y	32x42
AL-LARGE30-GRIP	30	18	35	120	2.4	Y	Y	Y								Y	Y	32x42
AL-50KN-GRIP	50	18	36	180	4.7	Y	Y	Y								Y	Twist	43x51
AL-60KN-GRIP	60	28	46	220	7	Y	Y	Y								Y	Twist	60x70
<b>For Aerial Bundled Cable (Conductor)</b>																		
ABC-S-GRIP	3.5	4x16	4x35	80	0.6				Y							Y	Y	24x30
ABC-M-GRIP	10	4x25	4x95	160	2.4				Y							Y	Y	32x42
ABC-L-GRIP	18	4x95	4x150	180	2.6				Y							Y	Y	32x42

\* Curved serrated jaw

**For more technical details on the above grips refer to SF Electrical catalogue.**

**WIRE GRIPS (MADE IN JAPAN)**



Specifically designed for railway applications these patented "twist-grip" feature prevents cable or conductor from getting damaged during the pulling process. This design works especially well with dense or solid conductors or cables.

**FEATURES**

- All models are fitted with swing down safety latch 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
- PATENTED "twist-grip" feature on models 40KN, AL-50KN, AL-60KN and "one handed trigger grip operation" on smaller models (20-30KN)

**WIRE GRIP QUICK SELECTION GUIDE**

**Every grip is proof tested before shipment to ensure quality, etched with serial number and date of manufacture.**

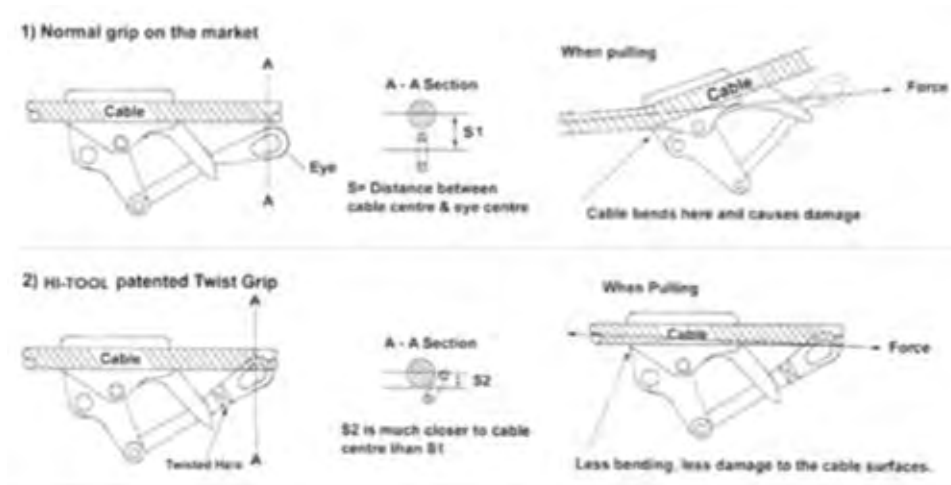
**GRIP SELECTION**

1. Determine the type of wire or conductor the Grip is to be used on, for example: Trolley Cable, 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 (also refer to winch or puller capacity).

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.

**TWIST GRIP FEATURE (PATENTED)**



**ONE HANDED TRIGGER GRIP FEATURE (PATENTED – SMALLER MODELS ONLY)**



**PATENTED HI-TOOL GRIPS**

**WEB STRAP PULLERS (MADE IN JAPAN)**

**HI-TOOL** CO., LTD

**DESIGNED  
 STRONG,  
 LIGHTWEIGHT  
 & COMPACT**



**NP-1500**

**NEX-1500**

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 No.	Capacity (kN)	Strap Size (mm)	Handle Length (mm)	Pull Length (m)	Wt (kg)
<b>NP-1500</b>	15	32 x 2	460	1.5	3.6
<b>NEX-1500</b>	15 (Double)	32 x 2	460	1.5 (Double)	3.9
	7.5 (Single)			3.0 (Single)	
<b>NEX-1500-H</b>	15 (Double)	32 x 2	800	1.5 (Double)	4.3
	7.5 (Single)			3.0 (Single)	

**RATCHET STYLE WEB-STRAP HOIST**

Model No.	Capacity (kN)	Strap Size (mm)	Handle Length (mm)	Pull Length (m)	Weight (kg)
<b>NEL-1500</b>	15 (Double) 7.5 (Single)	32 x 2	460	1.5 (Double) 3.0 (Single)	4.2



**ELECTRICAL, WINCHES, STRINGING & CABLE LAYING**

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## LINCOLN HOISTS – WEB STRAP & WIRE ROPE (MADE IN USA)



Lincoln Hoist has been designing and manufacturing portable ratchet lever hoists in the USA for over 60 years. Our hoists are made in the USA with unmatched quality and durability. With a variety of models and features to choose from, our hoists are proven in quality and durability.

### Both Hoists Feature:

- Wide range of models available
- Load tested to 125% of rated capacity
- Interlocking pawl mechanism - no brakes to slip
- USA made 360° swivel hooks are drop forged, heat treated steel
- Open frame construction for easy inspection and cleaning
- Four hook styles designed to meet application requirements and work practice standards
- Maintenance free bearings are lubed for life
- Safety latch supplied on hook as standard

### WIRE ROPE HOISTS

#### Wire Rope Hoist Features:

- Handle bends to alert operator of overload
- Quick release allows cable to be pulled out freely when rigging
- Reversible handle allows pulling in optimum position
- Hydraulically crimped copper sleeve for uniform hold
- All cable stores on drum

**Lincoln Hoist were the manufacturer of all Lug-All's® from 1948-2008 and are continuing to produce quality hoists. Brief history of Lincoln;**

- 1949** Introduced first lever hoist using double interlocking pawls
  - 1964** Patented the first portable hoist with 50 feet of cable
  - 1966** First web strap model introduced
  - 1969** Patented breakable stress link system for use on fiberglass handles
  - 1974** Introduced the first 1240 kg portable hoist with self-storing cable
  - 1986** Produced 1,000,000th portable hoist
  - 2001** Introduced convertible web strap hoist using lynch pin fast attachments
  - 2010** Produced 2,000,000th portable hoist
  - 2011** Introduced RFID technology
- LUG-ALL® is a registered trademark of Transol Corporation

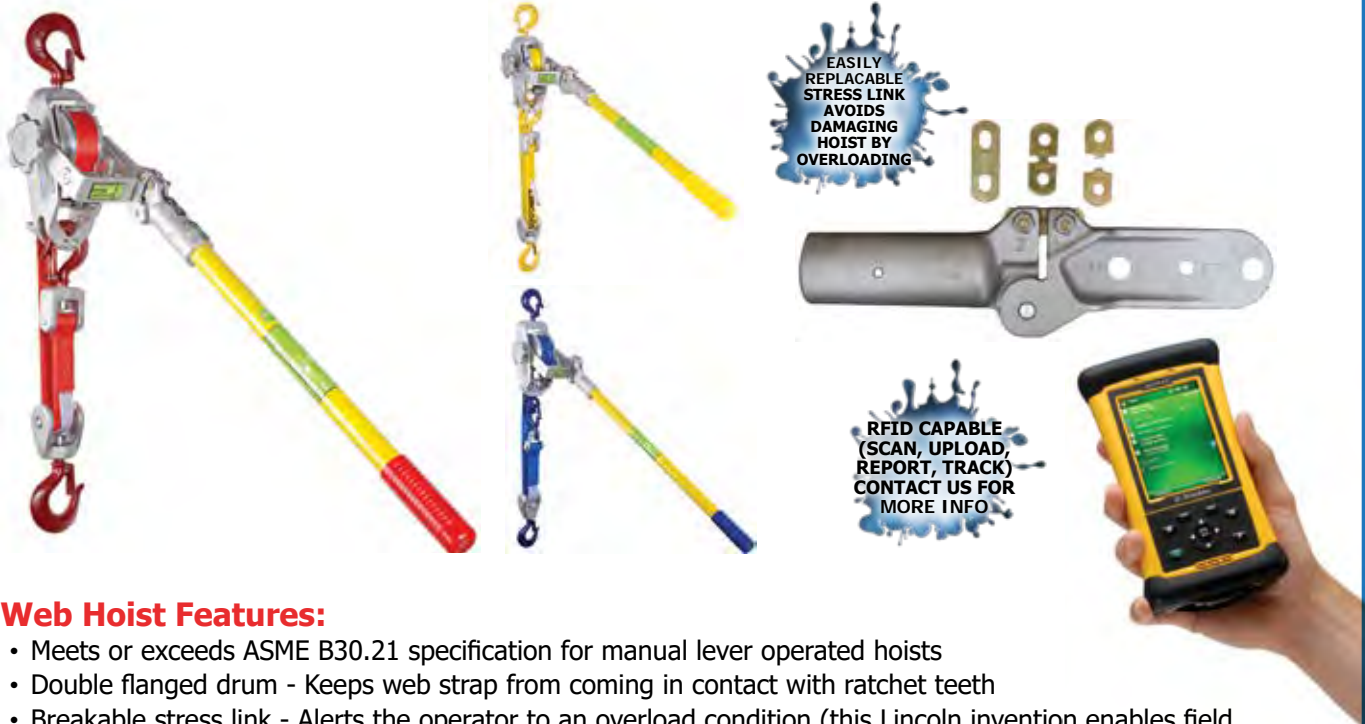


Model No.	Frame Size	Single Line			Double Line			Cable Length (cm)	Handle Length (cm)	Hoist Weight (kg.)
		Cap. (kg)	Single Lifting Distance (cm)		Cap. (kg)	Double Lifting Distance (cm)				
			Min	Max		Min	Max			
<b>LH 1500-25-ANZ</b>	Small	165	48.3	792.5	330	58.4	419.1	777.2	38.1	3.9
<b>LH 2250-20-ANZ</b>	Small	420	48.3	655.3	790	58.4	350.5	640.1	44.5	4.2
<b>LH 3000-10-ANZ</b>	Small	565	48.3	365.8	1130	58.4	205.7	350.5	50.8	4.0
<b>LH 3000-30-ANZ</b>	Medium	565	53.3	983.0	1130	73.7	520.7	960.1	63.5	6.2
<b>LH 4000-20-ANZ</b>	Medium	725	53.3	690.9	1290	73.7	345.4	670.5	76.2	7.0
<b>LH 6000-15-ANZ</b>	Large	1100	63.5	569.0	2200	87.6	320.0	548.6	139.7	15.4

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**LINCOLN HOISTS – WEB STRAP & WIRE ROPE (MADE IN USA)**



**Web Hoist Features:**

- Meets or exceeds ASME B30.21 specification for manual lever operated hoists
- Double flanged drum - Keeps web strap from coming in contact with ratchet teeth
- Breakable stress link - Alerts the operator to an overload condition (this Lincoln invention enables field replacement of an inexpensive link rather than a complete fibreglass handle)

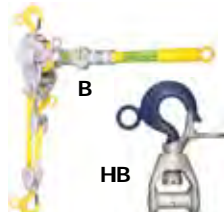
Model No.	Frame Size	Single Line			Double Line			Colour	Web Strap Length x Width (cm)	Handle Length (cm)	Hoist Weight (kg.)
		Cap. (kg)	Single Lifting Distance (cm)		Cap. (kg)	Double Lifting Distance (cm)					
			Min	Max		Min	Max				
<b>2W10-ANZ-1000</b>	Small	450	45.7	332.7	900	58.4	188.0	Yellow	304.8 x 3	50.8	4.7
<b>3W08-1300-ANZ</b>	Small	680	45.7	271.8	1360	61.0	160.0	Red	243.8 x 3	58.4	4.7
<b>2010060244</b>	Small	680	45.7	332.7	1360	58.4	188.0	Red	304.8 x 3	50.8/76.2	4.7
<b>3W15-1300-ANZ</b>	Medium	680	50.8	482.6	1360	81.3	271.8	Red	304.8 x 3	58.4	6.4
<b>30W08-ANZ</b>	Convertible	680	54.6	276.9	1360	57.2	160.0	Red	243.8 x 3	76.2	4.5
<b>30W08-1300-ANZ</b>	Convertible	680	54.6	276.9	1360	57.2	160.0	Red	243.8 x 3	58.4	4.5
<b>4W12-ANZ</b>	Medium	900	50.8	396.2	1800	76.2	228.6	Blue	365.8 x 4	91.4	6.7

OPTIONAL HOIST CONFIGURATION  
Add suffix below to Model No. **2W10S-L**

**L (Lynch Pin Model)**



**B (Hot Stick Rings)  
HB (Hot Stick Gate Latch)**



**Y (Levers added to pawl shafts –  
Glove & Barrier)**



LINE CONFIGURATION

**SINGLE**



**DOUBLE**



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## 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	HLB-560/P&C
WLL (kg)	560	560
Max Rope (mm) OD	14	14
Sheave Diameter (mm)	75	75
Gate Latch- Pin Type	"R CLIP"	DETENT PIN



Model No.	<b>PCA1260</b>
WLL (kg)	2000
Description	2m Polyester Sling

### SPARE PARTS

Model No.	Description
<b>HLB-P&amp;C</b>	Pin & Chain
<b>HLB-R/CLIP</b>	Pin & R/Clip
<b>HLB-LK</b>	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

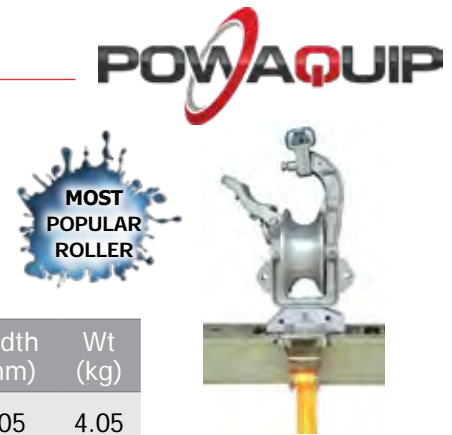
Model No.	Anchor Rod Ø (mm)	WLL 5:1 (kg)	Wt (kg)
<b>BPE-1</b>	13-32	2721	2.2



**UNIVERSAL STRINGING ROLLER & ACCESSORIES**

**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.











**MOST POPULAR ROLLER**

**CB-1 shown with RS-1**

Model No.	Description	WLL (kg)	Bottom of Groove X (mm)	Height (mm) Inc Socket	Width (mm)	Wt (kg)
<b>CB-1</b>	Roller Universal Stringing Al Sheave	1,135	110	370	205	4.05




**MOUNTING BRACKETS FOR UNIVERSAL STRINGING ROLLER**

Brackets for mounting universal stringing roller **CB-1**.

Product				
In Use				
Model No.	<b>RS-1</b>	<b>CAB-1</b>	<b>IB-1</b>	<b>AIA-J</b>
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.

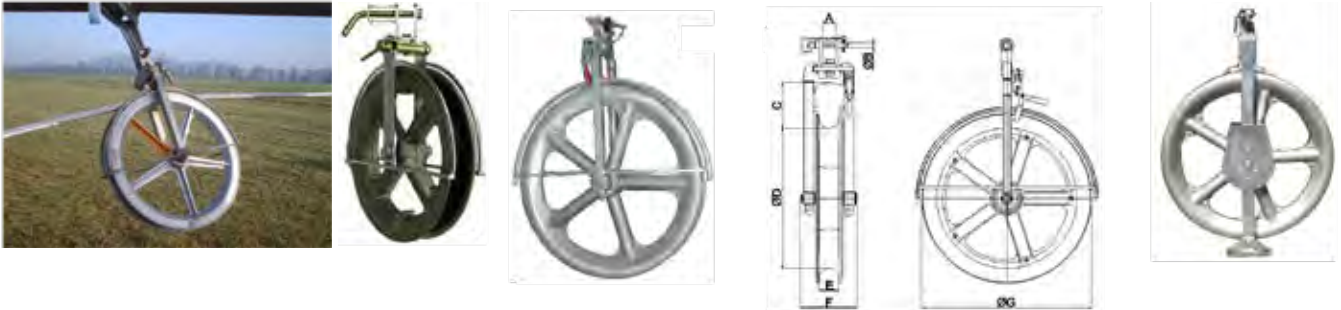
Product			
Model No.	<b>T14</b>	<b>T15</b>	<b>T12</b>
Description	Ball Clevis	"Y" Ball Clevis	Ball Safety Hook

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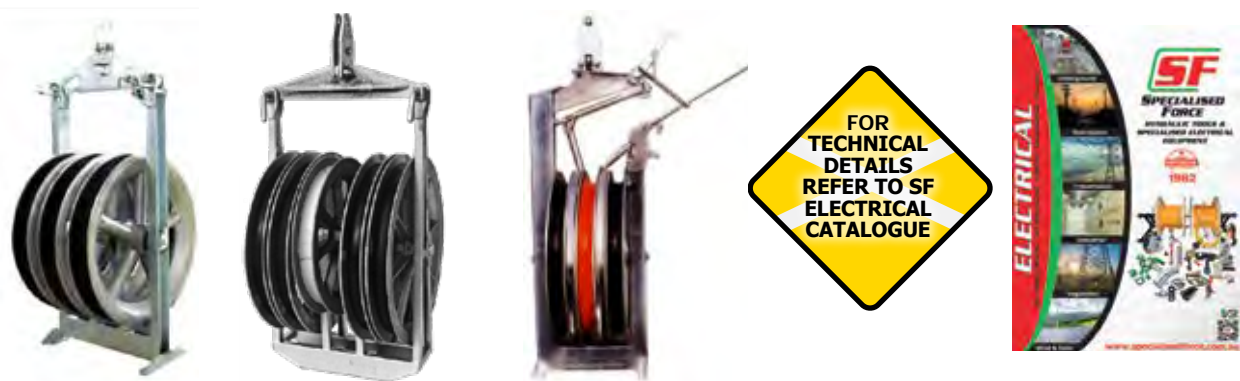
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**SINGLE STRINGING ROLLERS ALUMINIUM  
OR NYLON & HELICOPTER (MADE IN ITALY)**



**SINGLE AND MULTIPLE HELICOPTER ROLLERS (MADE IN ITALY)**



ELECTRICAL, WINCHES, STRINGING & CABLE LAYING

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**REFER PAGE 247 FOR SUSPENSION SOCKET  
FITTINGS**



**RAILWAY SPECIFIC OVERHEAD ROLLERS (MADE IN AUSTRALIA)**



CSR-010	PER-01	SCR-01	SCR-02	APB-1100
Catenary Stringing Roller, Plastic Sheave	Parallel Earth Roller with Plastic Sheave	Single Stringing Contact Roller, Metal Sheave	Double Stringing Contact Roller, Metal Sheave	Roller, Plastic Nylon Sheave 1,100kg WLL

**OTHER HANGING ROLLERS**



ACB145-60



ABC175-60



ABC66-28



ASCB-080



TRCG-140



**CROSSARM ROLLERS**



CARR-080  
CARR-140



FCARR-100



FCARR4-100



WCAR-100  
WCAR-150



WCCR-100  
WCCR-150



CASB-800



**FIBRE OPTIC ROLLERS**



AFG90-2



AFG90-80



AVH-50



AVH-50

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**INSULATED 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.



Model No.	Description	Weight
<b>4141</b>	TREE TRIMMING KIT 1,200mmL x 32mm DIA ROUND FOAM FILLED SECTIONS (electrically tested at factory)	6.8kg
<b>4142</b>	TREE TRIMMING KIT 1,800mmL x 32mm DIA ROUND FOAM FILLED SECTIONS (electrically tested at factory)	8.6kg
Optional		
<b>HF4005</b>	ROPE INSULATOR 860mmL	0.136kg
<b>HF-4010</b>	ROPE INSULATOR 1100mmL	0.136kg



Rope Insulator for up to 33kV  
Model No. **HF-4010**

Rope Insulator for up to 66kV  
Model No. **HF4005**

Note:

- Manufactured to meet a variety of standards, including ASTM, IEC and OSHA
- Will withstand 100KV per foot
- Doesn't absorb moisture and is very durable

Kit Qty		Model No.	Description
4	-	<b>HF546-4</b>	Stick Ext 1.2m
-	4	<b>HF546-6</b>	Stick Ext 1.8m
1	1	<b>HF4125</b>	Cutter Head
1	1	<b>HFA18007</b>	Stick Base Cap
1	1	<b>HFA10012</b>	Adaptor Universal Head
1	1	<b>HFP10046</b>	Universal "S" Hook
1	1	<b>HFA11000</b>	Saw Pruning Universal
1	1	<b>HFA10016</b>	Handle Universal Saw
1	1	<b>HFA30007</b>	Scabbard for Saw
1	-	<b>HF01-020</b>	Carry Bag 1.2m Sticks
-	1	<b>HF01-021</b>	Carry Bag 1.8m Sticks



**INSULATED FIBREGLASS STICKS (MADE IN USA)**

**TELESCOPIC INSULATED MEASURING STICKS**

Triangular Insulated Combination Operating/Measuring Stick.

- Open and Close switches, disconnects, line fuses, as well as measure elevated heights.
- Eye level measurement markings, means no calculations required.  
Read height is shown at the top of the Base section.  
Metric markings are printed in LARGE easy to read numbers.



Model No.	Extended Length (m)	Retracted Length (m)	Vinyl Storage Bag	Weight (kg)
<b>HFMV-25*</b>	7.8	1.6	<b>TE2607</b>	3.7
<b>HFMV-30*</b>	9.2	1.7	<b>TE2607</b>	4.6
<b>HFMV-35*</b>	10.5	1.7	<b>TE2607</b>	5.5
<b>HFMV-40*</b>	12	1.8	<b>TE2608</b>	6.5

\*Replacement sections available

Other Measuring and operating sticks available upon request



**Universal Disconnect Hook  
(Supplied with Stick)**

**INSULATED STICK KITS**

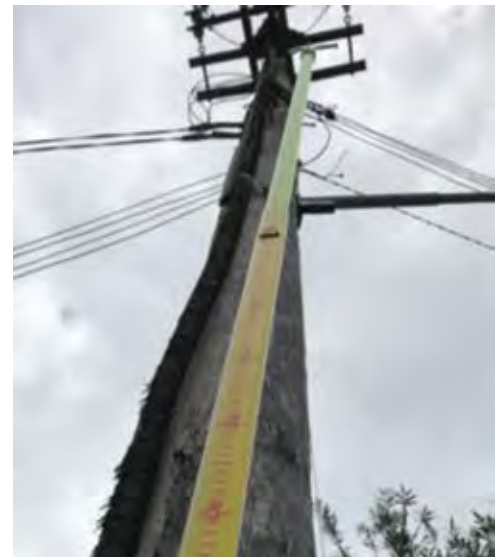
Insulated stick kits for opening and closing switches & fuses. Available in 1200 & 1800mm sections.

\*\*Tailor to your requirements



Model No.	Description	Contents	QTY	
<b>HF546-4/KIT</b>	Insulated Stick Kit, 1200mm sections	<b>HF5467-4*</b>	1200mm Extension c/w Sunrise Head	1
		<b>HF546-4*</b>	1200mm Extension	4
		<b>HFP10431*</b>	Universal disconnect hook	1
		<b>HFA10012*</b>	Sunrise adaptor	1
		<b>HFA30002*</b>	Hand Guard	1
		<b>FEH*</b>	Fuse extraction head – pigtail	1
		<b>HF01-020*</b>	Vinyl Carry Case	1
<b>HF546-6/KIT</b>	Insulated Stick Kit, 1800mm sections	<b>HF5467-6*</b>	1800mm Extension c/w Sunrise Head	1
		<b>HF546-6*</b>	1800mm Extension	4
		<b>HFP10431*</b>	Universal disconnect hook	1
		<b>HFA10012*</b>	Sunrise adaptor	1
		<b>HFA30002*</b>	Hand Guard	1
		<b>FEH*</b>	Fuse extraction head – pigtail	1
		<b>HF01-021*</b>	Vinyl Carry Case	1

\*Replacement parts are also sold individually. Other sticks KITS available upon request



**ELECTRICAL, WINCHES, STRINGING & CABLE LAYING**

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**OVERHEAD STRINGING MACHINERY (MADE IN ITALY)**

**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 Option of having the reel winder included as part of the machine which eliminates the need for additional equipment hoses and transportation	Direct Force Readings Force readings do not rely on unreliable sources such as hydraulic circuit pressure	Precise Measurement Specialised equipment for accurate speed and distance measurement
---	--	--

OMAC Model No.	Type	Capstan OD (mm)	Max Rope (mm)	Power (kW)	Page Ref #	Capacity (kN)
<b>F 280.40.P</b>	PULLER	325	13-16	26.0	F61	40
<b>F 200.AF.45.2</b>	PULL/TENSIONER	1200	16	65.0	F62	45
<b>F 200.AF.75.2</b>	PULL/TENSIONER	1200	18	77.0	F63	75
<b>F 120.AF.45.2</b>	PULL/TENSIONER	1500	16	65.0	F64	45
<b>F 200.AF.90.2</b>	PULL/TENSIONER	1200	18	105.0	F65	90
<b>F 120.AF.90.2</b>	PULL/TENSIONER	1500	18	105.0	F66	90
<b>F 120.AF.150.42</b>	PULL/TENSIONER	1500	4X32	175.0	F67	1x150/2x75
<b>F 105.150.22</b>	PULLER	650	2x28	215.0	F68	150
<b>F 120.150.42</b>	TENSIONER	1500	4x40	64.0	F69	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 SF Electrical Catalogue

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**WRENCHES – STANDARD & UTILITY**

**DOUBLE SIDED PODGER RATCHET 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



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**MODEL NO. SH-5PDG  
HYDRAULIC HAND PUNCH  
(MADE IN JAPAN)**

**CAPACITY**

- 90mm diameter hole in 3.2mm thick mild steel.
- 40.5 diameter hole in 3.2mm thick 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 PUNCH KIT  
MODEL NO. SH-5PDGISOMS**

**INCLUDES:**

- 1 SH-5PDG Hand hydraulic punch
- 2 Draw studs (3/8" & 3/4") Model No. 10-04 & 10-05
- 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, 40.5 & 50.8mm Diameter (3 crown style ISO)
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14



**STAINLESS STEEL PUNCH KIT  
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
- 6 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



**MODEL NO. SH-10  
HYDRAULIC HAND PUNCH  
(MADE IN JAPAN)**



**CAPACITY**

- 104mm diameter hole in 3.2mm thick mild steel
- 63.5mm diameter hole in 3.2mm thick stainless steel

**FEATURES**

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)	370 (L) x 220 (W) x 130 (H)
Kit Weight (kg)	9.0

**MILD STEEL PUNCH KIT  
Model NO. SH-10ISOMS**

**INCLUDES:**

- 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 PUNCH KIT  
Model NO. SH-10ISOSS**

**INCLUDES:**

- 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) 63.5mm Punch & Die Sold Separately
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14



**MODEL NO. LS100L (BB) BATTERY PUNCH (MADE IN GERMANY)**



The 11-Ton LS100L Battery powered Punch Driver from Greenlee is the fastest, most powerful knockout driver available on the market today. Easily punch up to 152.4mm conduit size holes in mild steel and 101.6mm holes in stainless steel. Using integrated smart-technology senses when the punch cycle is complete it automatically shuts off, extending tool life and preventing damage to the punch and die.

**FEATURES**

- Up to 2x faster cycle time\*
- Powerful 11t punch force
- Compact & ergonomic
- 360° rotating head punches at any angle
- Lightweight at 2.63kg
- "Auto-Stop" avoids damage to punch
- Led light for dark areas
- 18V Li-Ion Makita Battery
- Easy one-handed operation with ergonomic tapered grip
- 8 second maximum cycle time

\* Compared to similar competitive products



**PUNCHING CAPACITY**

Material	Punch Size (mm OD)	Material Thickness (mm)
Mild Steel	12.7-101.6	3.4
	127.0-152.4	2.6
Stainless Steel	12.7-76.2	3.4
	88.9-101.6	2.6



Punches & Draw Studs Sold Separately

**SPECIFICATIONS**

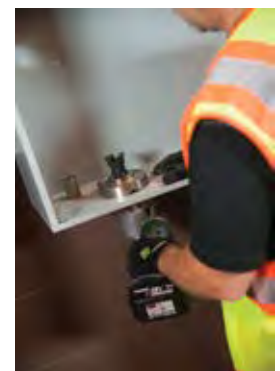
Model No.	Kit Contents	Battery	Force (Tonne)	Wt (kg) TOOL ONLY
<b>LS100L(BB)*</b>	Tool, 2 Lithium-Ion Batteries 18VDC & Charger	Makita® 18VDC (Lithium-Ion)	10	2.63

\*FOR PUNCHING MILD STEEL UP TO 90mm HOLES ONLY

**KIT COMPONENTS**

Model No.	Description
<b>03138</b>	LS100 Punch Driver & Case (LS100BB)
<b>52176</b>	Battery 18V Li-Ion 3.0Ah
<b>52179</b>	Charger, Battery Li-Ion 230VAC
<b>20963</b>	Draw Stud 3/8" (3/4") x 122mm Long
<b>10109</b>	Drawstud 3/4" x 136.5mm Long (2113B)
<b>03248</b>	Spacer - Short (1924AA)

**ABOVE KIT FOR PUNCHING MILD STEEL UP TO 90mm. SEE BELOW ACCESSORIES FOR LARGER SIZES AND STAINLESS STEEL**



**ACCESSORIES**

MILD STEEL	
Model No.	Description
<b>03170</b>	Sleeve (1557AA) - For punching holes 102.7 to 161.9mm

STAINLESS STEEL	
Model No.	Description
<b>29451</b>	Draw Stud - For punching holes up to 22.5mm
<b>29452</b>	Draw Stud - For punching holes up to 28.3 to 90mm
<b>00785</b>	Sleeve (1557SS) - For punching holes up to 102.7 to 115.4mm

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**KNOCKOUT PUNCH & DIES (MADE IN JAPAN)**

For use with a hydraulic punch driver. A premium grade of mild & stainless steel punch & dies, both of which are designed to resist wear to ensure accurate holes and long punch life. In Australia they are commonly referred to as chassis punches.

**MILD STEEL ROUND PUNCHES**

Made from high grade tool steel, our mild steel punches have 3 cutting crown edges and require less force to pull through than 4 crown punches. The 3 edges also provide excellent stability whilst allowing material to be easily removed from the die after punching.

Description	Crown Style Punch	
Type	MILD STEEL/BRASS/ALUMINIUM (Max 3.2mm Thick)	
Round Hole Size (mm)	Model No.	Draw Stud Used
16.2	<b>PD-16.2MS</b>	10-04 OR 30043 – 3/8"
20.4	<b>PD-20.4MS</b>	10-04 OR 30043 – 3/8"
22.5	<b>PD-22.5MS</b>	10-04 OR 30043 – 3/8"
25.4	<b>PD-25.4MS</b>	10-04 OR 30043 – 3/8"
32.5	<b>PD-32.5MS</b>	10-05 OR 03294 – 3/4"
40.5	<b>PD-40.5MS</b>	10-05 OR 03294 – 3/4"
50.8	<b>PD-50.8MS</b>	10-05 OR 03294 – 3/4"
63.5	<b>PD-63.5MS</b>	10-05 OR 03294 - 3/4"



**STAINLESS STEEL ROUND PUNCHES**

Made from premium grade oil hardened tool steel.

Description	Twin Cutting Edges Cuts Slugs in Half	
Type	STAINLESS STEEL/MILD STEEL/BRASS/ALUMINIUM (Max 3.2mm Thick)	
Round Hole Size (mm)	Model No.	Draw Stud Used
16.2	<b>PD-16.2SS</b>	30043 – 3/8" (1.6mm Thick)
20.4	<b>PD-20.4SS</b>	29451 – 7/16" (2.5mm Thick)
22.5	<b>PD-22.5SS</b>	29451 – 7/16" (2.5mm Thick)
25.4	<b>PD-25.4SS</b>	29451 – 7/16" (2.5mm Thick)
32.5	<b>PD-32.5SS</b>	29452 – 3/4"
40.5	<b>PD-40.5SS</b>	29452 – 3/4"
50.8	<b>PD-50.8SS</b>	29452 – 3/4"
63.5	<b>PD-63.5SS</b>	29452 – 3/4"



Model No.	Description
<b>PD-SET-MS</b>	Mild Steel Punch & Die Set, Includes 7 Sizes: 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm
<b>PD-SET-SS</b>	Stainless Steel Punch & Die Set, Includes 7 Sizes: 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm

**SQUARE PUNCHES**

Type	BRASS/ALUMINIUM/ETC (Max 3.2mm Thick)	
SQUARE Hole Size (mm)	Model No.	Draw Stud Used *
25.4	<b>PD25.4-SQ</b>	03S0034060 (1/2" X 3/4")
45	<b>PD45-SQ</b>	03S0036060
46	<b>PD46-SQ</b>	03S0036060
68	<b>PD68-SQ</b>	03S0036060
92	<b>PD92-SQ</b>	03S0036060



\*Note that Square Punches are supplied with Draw Stud

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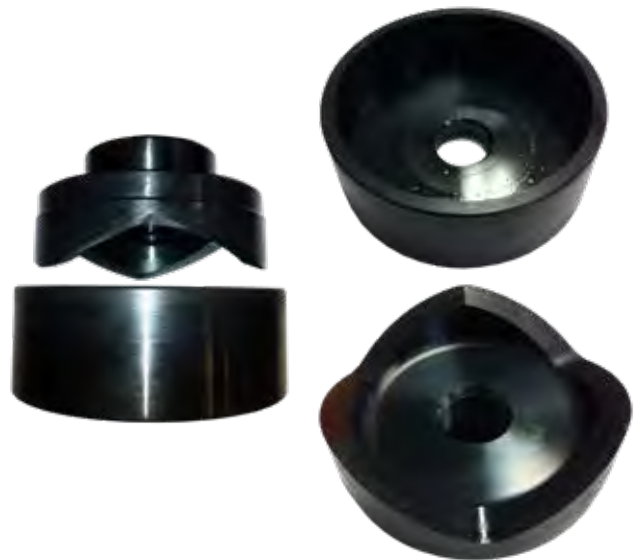


**KNOCK OUT PUNCH & DIES (MADE IN JAPAN)**



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	<b>16</b>	3/8
20.0	<b>19</b>	3/8
26.3	<b>25</b>	3/8
27.4	<b>22</b>	3/4
32.7	<b>31</b>	3/4
34.2	<b>28</b>	3/4
39.0	<b>39</b>	3/4
42.8	<b>36</b>	3/4
48.7	<b>42</b>	3/4
51.7	<b>51</b>	3/4
60.5	<b>54</b>	3/4
64.4	<b>63</b>	3/4
76.0	<b>70</b>	3/4
77.1	<b>75</b>	3/4
88.8	<b>82</b>	3/4
102.5	<b>92</b>	3/4
115.2	<b>104</b>	3/4



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**JIM SERIES KNOCK OUT PUNCH & DIES (MADE IN JAPAN)**



Riken high quality metal punch and dies are manufactured from hardened fine alloy tool steel. The punches feature three cutting edges that provide stability and reduce damage to cutting edges. Punches have precision designed cutting edges for long cutting life.

**106 sizes available in full sizes 15mm-120mm OD (Increments of 1mm)**

**ORDERING INFORMATION**

For quotation or ordering information model numbers use prefix code "JIM" plus "-" and actual size in millimetres "XX"

- For example a 46mm punch and die set will be model no. **JIM-46**
- For example a 115mm punch and die set will be model no. **JIM-115**

**PUNCH & DIE SIZE**

(mm OD)	Draw Stud Size (" /Inches UNF)
15-26	3/8
27-120	3/4



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NOTE: Punch and die supplied as set, not available individually. Requires punch unit (manually operated, hydraulic, battery, electric) with draw stud to utilise

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## 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.	<b>04042</b>	<b>00042</b>	<b>04040</b>	<b>04218</b>
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
TPI (Threads per inch)	16	24	16	20

## 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									
Model No.	<b>10-04</b>	<b>30043</b>	<b>20963*</b>	<b>29451</b>	<b>10-14^ (ADAPTOR)</b>	<b>31872+</b>	<b>10-05</b>	<b>29452</b>	<b>10109&lt;</b>
Length (mm)	76.0	71.0	120.0	110.0	45.0	114.3	135.0	140.0	136.5
OD (mm)	9.5	9.5	9.5	11.1	19.0 (9.5 INTERNAL)	19.0	19.0	19.0	19.0
Thread (UNF)	3/8	3/8	3/8 (3/4 Bottom)	7/16 (3/4 Bottom)	3/4 (3/8 INTERNAL)	3/4	3/4 (3/8 INTERNAL)	3/4	3/4"
TPI (Threads per inch)	24	24	3/8=24 3/4=16	7/16=20 3/4=16	3/4=16 3/8=24	16	3/4=16 3/8=24	16	16

\*Alternative #SMR-3/8x3/4    ^ Alternative #33967    + Alternative # 03294    < Greenlee Model 2113B

**DRAW STUDS FOR RATCHET DRIVERS & SPECIAL SQUARE PUNCHES (MADE IN THE USA)**



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.	<b>60116</b>	<b>60117</b>	<b>34421</b>	<b>60115</b>	<b>60166</b>	<b>60118</b>	<b>60167 (ADAPTOR)</b>
Length (mm)	127	127	90	87	117	171	40
OD (mm)	9.5	12.7	9.5	6.3	12.7	19.0	19.0 (12.7 INTERNAL)
Thread (UNF)	3/8	1/2	3/8	1/4	5/8	3/4	3/4 (1/2 INTERNAL)
TPI (Threads per inch)	24	20	24	28	18	16	3/4=16 1/2=20

**SPACERS FOR PUNCHING**

Replacement spacers for punching. Refer to the pictures and information below when ordering a replacement spacer.

**SH-5 & SH-10 PUNCH KIT CONTAINS (REFER PAGE 254)**

Model No.	Type	Thickness (mm)	SH-10	SH-5
<b>5PDF-48</b>	Extra Small	13		✓
<b>10-03</b>	Small	26	✓	✓
<b>10-02</b>	Medium	31	✓	✓
<b>10-01</b>	Large	38	✓	✓



Spacers suit all brands and models

**KNOCK OUT PUNCH & DIES (MADE IN USA)**

A wide range of quality punch kits, specialty die and punch sizes available from Greenlee.



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**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.

**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



**IDEAL FOR  
TRANSMISSION  
TOWERS**

**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
<b>SH-70B6PDCU</b>	6MM PUNCH AND DIE CU	<b>SH-70B14PDCU</b>	14MM PUNCH AND DIE CU
<b>SH-70B6PDST</b>	6MM PUNCH AND DIE ST	<b>SH-70B14PDST</b>	14MM PUNCH AND DIE ST
<b>SH-70B7PDCU</b>	7MM PUNCH AND DIE CU	<b>SH-70B15PDCU</b>	15MM PUNCH AND DIE CU
<b>SH-70B7PDST</b>	7MM PUNCH AND DIE ST	<b>SH-70B15PDST</b>	15MM PUNCH AND DIE ST
<b>SH-70B8PDCU</b>	8MM PUNCH AND DIE CU	<b>SH-70B16PDCU</b>	16MM PUNCH AND DIE CU
<b>SH-70B8PDST</b>	8MM PUNCH AND DIE ST	<b>SH-70B16PDST</b>	16MM PUNCH AND DIE ST
<b>SH-70B9PDCU</b>	9MM PUNCH AND DIE CU	<b>SH-70B17PDCU</b>	17MM PUNCH AND DIE CU
<b>SH-70B9PDST</b>	9MM PUNCH AND DIE ST	<b>SH-70B17PDST</b>	17MM PUNCH AND DIE ST
<b>SH-70B10PDCU</b>	10MM PUNCH AND DIE CU	<b>SH-70B18PDCU</b>	18MM PUNCH AND DIE CU
<b>SH-70B10PDST</b>	10MM PUNCH AND DIE ST	<b>SH-70B18PDST</b>	18MM PUNCH AND DIE ST
<b>SH-70B11PDCU</b>	11MM PUNCH AND DIE CU	<b>SH-70B19PDCU</b>	19MM PUNCH AND DIE CU
<b>SH-70B11PDST</b>	11MM PUNCH AND DIE ST	<b>SH-70B19PDST</b>	19MM PUNCH AND DIE ST
<b>SH-70B12PDCU</b>	12MM PUNCH AND DIE CU	<b>SH-70B20PDCU</b>	20MM PUNCH AND DIE CU
<b>SH-70B12PDST</b>	12MM PUNCH AND DIE ST	<b>SH-70B20PDST</b>	20MM PUNCH AND DIE ST
<b>SH-70B13PDCU</b>	13MM PUNCH AND DIE CU	<b>SH-70BPDCU</b>	COPPER PUNCH & DIES COMPLETE SET ONLY
<b>SH-70B13PDST</b>	13MM PUNCH AND DIE ST	<b>SH-70BPDST</b>	STEEL PUNCH & DIES COMPLETE SET ONLY

**CABLE PREPARATION TOOLS - CABLE STRIPPERS  
(MADE IN EUROPE)**

*intercable*

High quality Italian range of stripping tools and accessories, for more technical detail



AV6220	AE6210	AV3920	AE6200	17220	17240	17230
Universal	Outer Sheath	Insulated Knife	Insulated Wire	Semi-Conductor Screen Removal	Chamfer	Internal Insulation Cutting

**SPECIFICATIONS**

Model No	Description	Applications	Cable Capacity (mm)	Thickness (mm)	Notes	Wt (kg)
<b>AV6220</b>	Universal	LV, MV, Telecommunication	25+	0-5	Insulated Version Available	0.2
<b>AE6210</b>	Outer Sheath	LV, MV	25-60	0.5-5	Kit w/Bag & Knife	0.9
<b>AV3920</b>	Insulated Knife	All	N/A	N/A	1,00VAC Insulated	0.2
<b>AE6200</b>	Insulated Wire	Live Wires	2.5/4/6mm <sup>2</sup> 10mm Cross Section		1,00VAC Insulated	0.2
<b>17220</b>	Semi-Conductor Screen Removal	MV & HV Vulcanised Semi-Conductor Screen	10-52	0-1.5	Kit w/Gel, Wrench & Case	0.8
<b>17240</b>	Chamfer	MV	15-60	N/A	2 x 60°, 220mm Max Rotation	0.4
<b>17230</b>	Internal Insulation Cutting	MV 6-45kV	15-52	0-15	5 Step Feed, 220mm Max Rotation	1.0

**CABLE STRIPPING TOOLS (MADE IN AUSTRALIA)**



IR	HCS40	HSCS1342
Universal "D" Ripper Stripper	Sheath, Scoring & Insulation Remover	Semi-Conductor Stripper



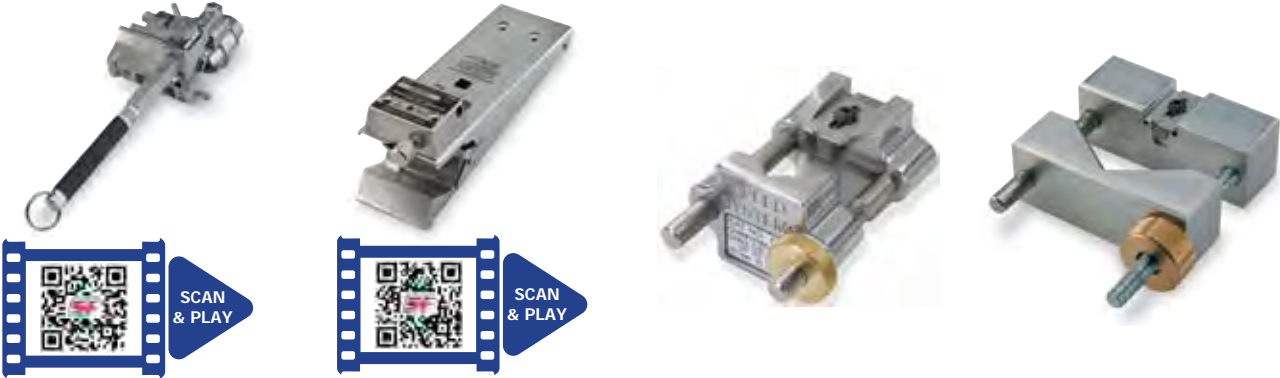
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## CABLE PREPARATION TOOLS – CABLE STRIPPERS (MADE IN ITALY)

High quality American range of stripping tools and accessories



**1542-2CL**

Insulation Stripper

**1700**

Adjustable Blade Scorer

**CT-1**

Chamfer Tool

**CT-2**

Large Chamfer Tool

### SPECIFICATIONS

Model No	Description	Applications	Cable Capacity (mm)	Notes
<b>1542-2CL</b>	Insulation Stripper	Remove PE, XLP, EPR from HV	12.7-44.5	Variations available
<b>1700</b>	Adjustable Blade Scorer	HV	12.7-50.8	Blade variations available
<b>CT-1</b>	Chamfer Tool	Terminations	12.7-34.9	-
<b>CT-2</b>	Large Chamfer Tool	Terminations	24.1-69.9	-

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# **SF** **SPECIALISED FORCE**

*Quality Products, Service and Solutions for 700Bar Hydraulic, Electrical, Rail & Other Key Industries.*

 NightSearcher

 ESTEX  
SINCE 1900

## ***Safety, Lighting & Flags***



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**ELECTRICAL, WINCHES, STRINGING & CABLE LAYING**

**268-277**

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**SAFETY WARNING FLAGS (DESIGNED IN AUSTRALIA)**

**MODEL NO. FLAG SERIES**



**FEATURES**

- Weather proof PVC flag
- Made in Australia
- Double stitched edging
- Bright visible colours



**SPECIFICATIONS**

Model No.	Flag Size (mm)	Handle	Handle OD (mm)	PVC Collar Distance from End (mm)
<b>BLUE FLAG</b>	600 x 450	Wooden Dowell	20	225
<b>GREEN FLAG</b>				
<b>ORANGE FLAG</b>				
<b>RED FLAG</b>				
<b>WHITE FLAG</b>				
<b>YELLOW FLAG</b>				

## "POLE BUG" LED STROBE LIGHT & 2-FLAG HOLDER

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 (Included)
- Battery Run Time: 100+ Hours

Model No.

**7015-R (Red)**

**7015-A (Amber)**

Replacement flag (true bright red), single flag and dowel, Model No: **7074**



## LIGHT – POLE TRANSPORT POLE TRANSPORTATION, "LED 360°" STROBE LIGHT & 2 FLAG HOLDER

### DESCRIPTION

**360° LED strobe utilizes 24 long lasting LEDs to create a high visibility 60 flashes per minute strobe.**

LED Strobe is powered by 2 "D" batteries. System is easy to attach and deploy, using a heavy duty strap that attaches to all type and sizes of poles. Additional features include powder coated metal components and dual flag holders. Includes batteries and two RED flags

### FEATURES

**Systems are compact and designed to be stored on your vehicle!**

- **Red or Amber** LED Light
- LED Rating: 100,000 hours
- Batteries: Three Alkaline "D" size (Included)
- Battery Run Time: 100+ Hours
- Great for Mid Pole or rear protection
- Very low profile

Model No.

**7167-R (Red with Flag Holders and 2 RED Flags)**

**7167-A (Amber with Flag Holders and 2 RED Flags)**



**RGW SERIES SIGNALLER TORCHES (INDUSTRIAL, RAIL, MINING & UTILITIES)**

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 6-volt 4.5Ah rechargeable lithium battery with up to 30 hours of life per full battery charge. The full charge takes only 90 minutes. They are weatherproof and come with an 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
<b>RGWA-L</b>	White, Green, Red and Amber LEDs and torch.	Standard
<b>RGW-L</b>	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

Light Colour	Lumens	Lux
White	430	8,000
Green	215	4,000
Red	215	4,000
Amber	215	4,000

**RAILWAY DESIGN.  
 NOW WITH  
 FREE STANDING  
 ADJUSTABLE BASE**



**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

**SOLARIS LITE  
LED PORTABLE RECHARGEABLE AREA  
LIGHTING SYSTEM**

The Solaris Lite range uses the latest in LED technology and thermal power management, providing intense light power in a compact portable unit. This unit can be set up in less than 1 minute for rapid deployment in emergency situations, and is made from a very tough ABS plastic to ensure long operating life and reliability for all situations. All Solaris models produce no heat and operate silently, making them ideal lightweight alternatives to 500W halogens running off a generator. No maintenance and can be left in any state of charge.

**FEATURES**

- Set up in less than 1 minute
- Wide angle spread 180°
- Robust, durable construction
- Totally silent operation
- Recharges from mains & vehicle
- Lightweight 5.7kg (Li-ion)
- Ideal to use in remote locations/confined spaces
- Designed to meet IP65, totally weatherproof
- A safe alternative to halogen based equipment

**HEAD**

- 16,000 lumens light output
- Robust
- Can light huge areas
- Cool to touch
- Environmentally friendly (no noise or emissions)
- Able to be run from rechargeable power pack
- Fully portable

**ADVANCED TECHNOLOGY**

- Linear LED innovation – 3 x 30° optics are used in the Solaris head.
  - This design reduces light pollution and effectively doubles\* the LUX value on the target area.

\*Compared to conventional LED floodlights

**ACCESSORIES**

Model No.	Description
<b>NSSOLARISLEGS-MK2</b>	Stability Legs
<b>NSSOLARISLENS-O/R/B/G</b>	Lens O-Orange/R-Red/B-Blue/G-Green



**Model No. NSSOLARIS-36AH16K**

**Coloured Lens not included - see accessories below**



**SAFETY & LIGHTING & FLAGS**

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**GALAXY-PRO RECHARGEABLE  
FLOODLIGHT**

The Galaxy-Pro rechargeable LED Floodlight is designed using the toughest composite materials for use in industrial applications where it is essential to have robust, maintenance free products.

- Utilising the very latest LED technology the Galaxy-Pro produces a very impressive 3500 Lumens output (equivalent to a 500W Halogen light) and gives a wide floodlight beam in excess of 30m.

**FEATURES**

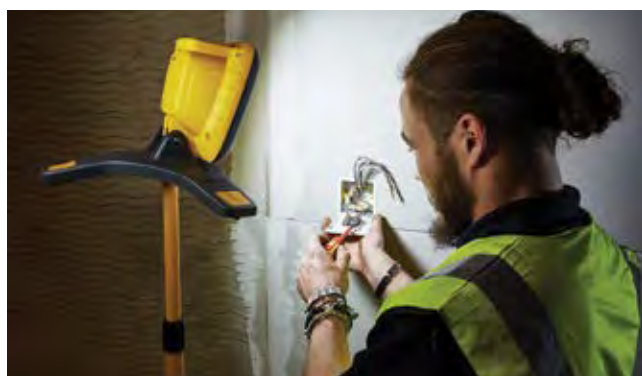
- 3 Light mode: 3500 lumens (HIGH), 1750 lumens (HALF) & Dimmable
- Rechargeable Li-ion worklight
- 3500 lumens (HIGH) - 1500 lumens (LOW)
- Runtime: 4 hours (HIGH) - 8 hours (LOW)
- Battery: 7.4V 13.2 Ah Lithium-ion
- Storage on the reverse for mains charger
- Robust, durable construction - Polycarbonate
- Designed to meet IP54
- Silent operation
- Dimmable (10-100%)
- Change the angle to suit your need
- High visibility reflector

**ACCESSORIES**

Model No.	Description
<b>SPTRIPOD1.7</b>	Tripod
<b>SPGALAXYPRO-MAG</b>	Magnetic Feet (3)
<b>CHIC-GALAXYPRO</b>	12/24V Vehicle Charger



**Model No. NS-GALAXY-PRO**





**EMERGENCY RECHARGEABLE LED HAZARD LIGHTS**

The Pulsar-Pro 5-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 5, these small but robust lights are manufactured in shock resistant plastic housings and rated to IP66.

They are virtually indestructible (withstanding most vehicle weights if run over). Incorporating strong magnet to allow attachment to vehicles etc.

Ingeniously designed, the Pulsar-Pro is charged within its case, using either mains or vehicle charger.

- Rechargeable LED emergency lights
- Available in sets of blue, red, yellow, green, red or infra-red
- 16 LEDs per Pulsar-Pro
- Visible from any angle, from a distance up to 1km (1,000m)
- Shock resistant housing, able to withstand most vehicle weights
- Waterproof (IP66)
- Incorporating a strong magnetic base
- Rechargeable Li-ion batteries
- Charged directly in the storage case
- Battery charging indication

Model No.	<b>NSPULSARB</b> (Blue) <b>NSPULSARR</b> (Red) <b>NSPULSARY</b> (Yellow) <b>NSPULSARG</b> (Green) <b>NSPULSARIR</b> (Infrared) (THE ABOVE COME AS A SET OF 5)
Light source	LED
Battery	Li-ion 3.7VDC
Charge time (hrs)	1-3 Pulsar-Pro: 2-6 hrs 4-5 Pulsar-Pro: 12-14 hrs
Product size(mm)	Pulsar-Pro 110 Diam x 34mm High Kit Approx: L444 x W368 x H64
Product weight (kg)	Individual Pulsar-Pro 0.2 Kit 2.7
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 – Steady On High/Low	5hrs/35hrs
7 – 2 LED Flashlight	28hrs
8 – 4 LED Flashlight	18hrs
9 – White Torch Mode	8hrs

Supplied with: Mains, vehicle chargers and charging case



**SAFETY & LIGHTING & FLAGS**

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**LIFEGUARD MULTI-FUNCTIONAL LED WORK LIGHT**



LifeGuard is an emergency kit all in one. Powerful floodlight, torch with a recessed razor blade cutter, frees both driver and passengers if seat belts do not unlatch and a stainless steel emergency breaking pin automatically deploys when pressed against side or rear window for glass breaking. The unit is magnetic so you can stick it to the outside of your car and use the emergency Red flash warning light to get roadside assistance.

**SPECIFICATIONS**

- 200 Lumens For 2W COB, 70 Lumens For 1W SMD
- 5m Beam
- 3 X AAA Alkaline Batteries Required
- Battery Life: Flood Light: 2.5hrs, Torch: 3hrs

Model No.	Dimensions	Weight
<b>NSLIFEGUARD</b>	158x47x22mm (LxWxH)	127g

**FEATURES**

- Belt Cutter
- On/Off Switch Between Light Modes
- Magnet
- Red Flashing Emergency Warning Lights
- Window Breaker
- Led Torch
- Led Floodlight
- Cob 2w Led Strip



**STARBOOSTER RECHARGEABLE PORTABLE CAR JUMP STARTER**

The StarBooster is a multi-function portable floodlight & car jump starter. With a built in Power Bank this compact unit is small enough to fit in your pocket or keep in the car glove box providing an essential tool in emergencies.

**SPECIFICATIONS**

- 500 lumens for 5W COB, 300 lumens for 3W SMD
- 5m beam
- 3 light modes: Floodlight, Torch & Flashing Red Lights
- Battery Life:
  - Flood Light: 10hrs
  - Torch: 6hrs
  - Flashing Red Light: 75hrs
- Charge Time: 3-4hrs

Model No.	Dimensions	Weight
<b>NSSTARBOOSTER</b>	166x96x31mm (LxWxH)	447g (Including Battery)

**FEATURES**

- LED Inspection light
- Mobile power pack for charging phone, tablet or laptop via micro USB
- LED battery status
- Jump lead socket
- Complete with jump leads
- Retractable carrying handle with stand and magnet
- White flood light or red warning lights
- Magnetic handle
- Jump start current - 300A
- Output current (usb) 5V-1A
- Output power - MAX300A
- Stand by time after full charge - 1 Year



**RAIL DOG – ROLLING RAIL ANCHOR**

Commonly used for rail bridge maintenance, this rail mounted fall arrest device ensures the safety of workers.

- The Rail Dog attaches via a torso mounted harness.
- Tested and certified to Australian Standard (AS/NZ 1891.4, 2009) for Industrial Arrest Systems and Devices.

Model No.	<b>HB6108</b>
WLL	15kN
Suitable Rail Sizes	41, 50, 53, 60 & 68kg
Weight	7.0kg



**SAFETY & LIGHTING & FLAGS**

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## MODEL No. 2864-8DTR SERIES 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
- Manufacture Label with Rating/Care/Warning
- Certified, Cyclic Load Tested Over 70 Times!

### SPECIFICATIONS

Model No.	<b>2864-8DTR-SF24</b>
Description	600mm Lifting Straps
Dimensions (m)	2.4 x 2.4
WLL (kg)	1350
Colour	Safety Orange



Certified, cyclic load tested over 70 times!



Folded up for easy storage



Laid flat



Manufacture label with rating/care/warning

**LOAD CONTAINMENT NETS**

Contain packages and loose items in the back of your Truck, Ute or Trailer



**SAFETY & LIGHTING & FLAGS**

Type	11 Sizes Available	Break Force (kg)
POLYETHYLENE (PE)	(Blue) has a Strand & Knotted appearance	68

Model No.	Size (m)
<b>LCNPE1.8X1.5</b>	1.8x1.5
<b>LCNPE1.8X2.4</b>	1.8x2.4
<b>LCNPE2.0X2.4</b>	2.0x2.4
<b>LCNPE2.1X2.1</b>	2.1x2.1
<b>LCNPE2.4X2.4</b>	2.4x2.4
<b>LCNPE2.2X2.6</b>	2.2x2.6
<b>LCNPE2.0X3.0</b>	2.0x3.0
<b>LCNPE2.4X3.0</b>	2.4x3.0
<b>LCNPE4.0X3.0</b>	4.0x3.0
<b>LCNPE5.0X3.0</b>	5.0x3.0
<b>LCNPE6.0X3.0</b>	6.0x3.0
<b>LCN-TIE DOWN</b>	10 ropes per Pack



BLUE NET (PE) SHOWN IN CARRY BAG



TIE-DOWN ROPES AVAILABLE (10 PER PACK) Model No. LCN-TIE DOWN

**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)**

Please Contact your Nearest Specialised Force Branch or Visit our Website for a Copy of the Certificate and MSDS.



TIE-DOWNS CAN BE USED TO BUNCH EXCESS NETTING



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## **Reference**







**REFERENCE**

**282-288**

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REFERENCE

## RAIL GAUGE

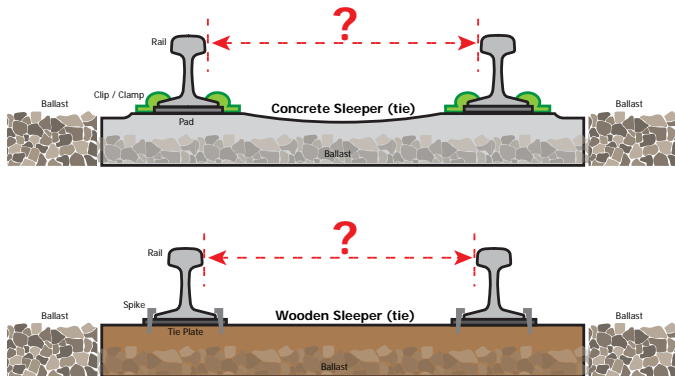
### AUSTRALIAN RAILWAY GAUGES

Australia's state run railways have not been known for cooperating in the past. The three railway gauges that exist are:

NARROW GAUGE (1,067mm / 3'6" [42"])

STANDARD GAUGE (1,435mm / 4'8-1/2" [56-1/2"])

BROAD GAUGE (1,600mm / 5'3" [63"])



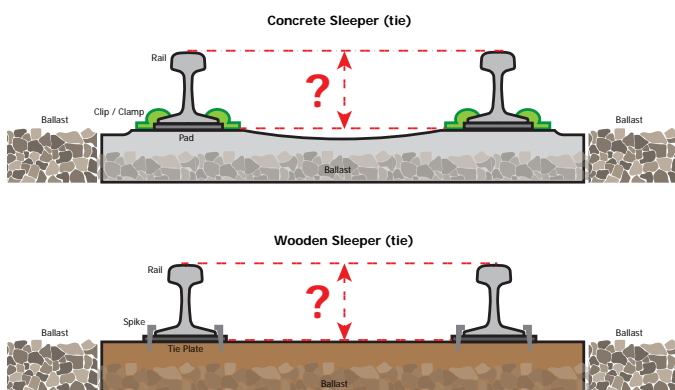
The following identifies each state or territory and their rail gauge types:

- ACT Australian Capital Territory STANDARD GAUGE (1,435mm / 4'8-1/2");
- NSW New South Wales adopted STANDARD GAUGE (1,435mm / 4'8-1/2");
- NT Northern Territory has STANDARD GAUGE (1,435mm / 4'8-1/2");
- QLD Queensland has NARROW GAUGE (1,067mm / 3'6");
- VIC Victoria chose BROAD GAUGE (1,600mm / 5'3");
- SA South Australia has all STANDARD GAUGE (1,435mm / 4'8-1/2"), BROAD GAUGE (1,600mm / 5'3") and NARROW GAUGE (1,067mm / 3'6");
- TAS Tasmania has NARROW GAUGE (1,067mm / 3'6");
- WA Western Australia has NARROW GAUGE (1,067mm / 3'6");

Today standard gauge exists nationally except in Tasmania and connects Brisbane, Sydney, Melbourne, Adelaide, Perth and Darwin. Victoria also built four NARROW(ER) GAUGE lines, one of which has been preserved as "Puffing Billy". Queensland is running high speed tilt trains on its NARROW GAUGE network.

### HEIGHT OF RAIL

Devices installed between the rails (derails, hinged stops, weighing scales, etc.) should be no higher than the top of the rails. (An exception to this rule is any flexible urethane marking cone, such as a Track Clearance Marker.) Height of rail is usually measured from the top of the wooden sleeper (or tie) to the top of the rail. Do not forget the thickness of the tie plate. Put a pipe or straight piece of lumber across the rails and measure from the tie up to the underside of the pipe or board.



The technical information provided is intended for informational purposes only and is subject to change without notice. Information may be changed or updated without notice. Customers should seek technical information directly from manufacturers of railway track components to ensure accuracy and suitability of tools and equipment.

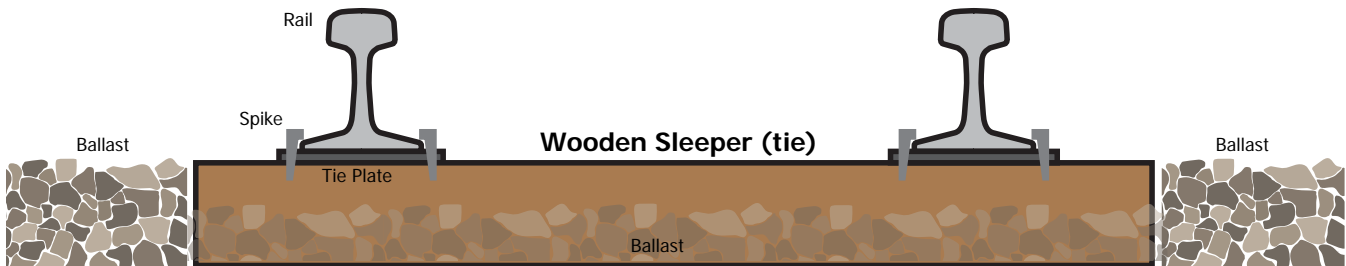
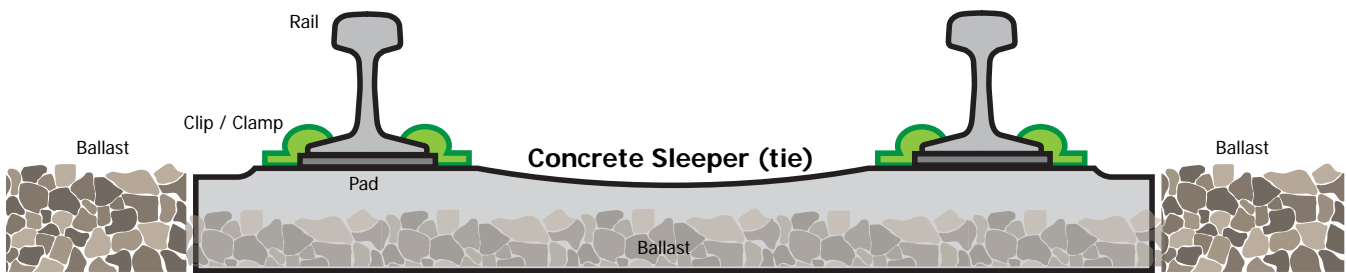
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**RAIL FASTENING SYSTEMS**

Refers to the equipment used to fix rails to railway sleepers (or railway ties). Numerous types of systems exist today with variations around the sleeper type used:

Sleeper Density	Sleeper Material	Fastener Type	Elements of Fastening System
Hard	Concrete or Steel	Clip, Clamp or Spring	Rail, Tie Plates or Pads, Anchors, Chairs, Fasteners (spikes, screws, tensioning bolts & nuts)
Soft	Wood or Composite	Spike or Screw	

Basic rail elements and fastening:



**REFERENCE**

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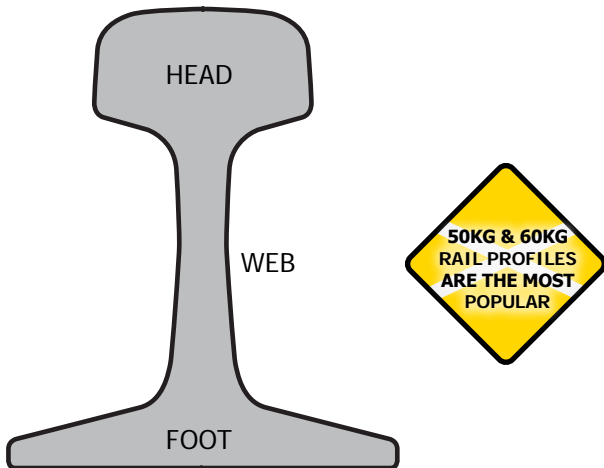
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REFERENCE

## RAIL PROFILE, WEIGHT, SIZE & FASTENING

### RAIL PROFILE

The cross sectional shape of railway rail is called the Rail profile, which is perpendicular to the length of the rail. The profile basically consists of three parts which are the head, web and foot.



In the past rail was made of wood, cast iron or wrought iron. Modern rail is manufactured from hot rolled steel of a specific cross sectional profile. The cross section (profile) typically approximates an I-beam but is asymmetric about a horizontal axis. The head is profiled to resist wear and to give a good ride, the foot is profiled to suit the fixing system.

Railway rails are made of very high quality steel as they are subject to very high stresses.

Larger rail, foundations and hardware allow for heavier and faster trains.

### RAIL WEIGHT/SIZE

The weight of a rail per length is an important factor in determining rails strength and hence axle loads and speeds. Weights are measured in Australia in kilograms per metre:

- 30 kg/m (60 lb/yd) no longer made in Australia
- 36 kg/m (73 lb/yd) no longer made in Australia
- 41 kg/m (90 lb/yd)
- 47 kg/m (95 lb/yd) no longer conforms to Australian Standards
- 50 kg/m (101 lb/yd)\*
- 53 kg/m (107 lb/yd)
- 60 kg/m (121 lb/yd)\*
- 68 kg/m (137 lb/yd) iron ore railways in WA same profile different hardness\*

\* 50kg, 60kg & 68kg are available in head hardened.

50kg and 60 kg are the current standard, although some other sizes are still manufactured.

Some American sizes are used on northwest Western Australian iron ore railways.

Refer pages 285–287 for common rail profiles.

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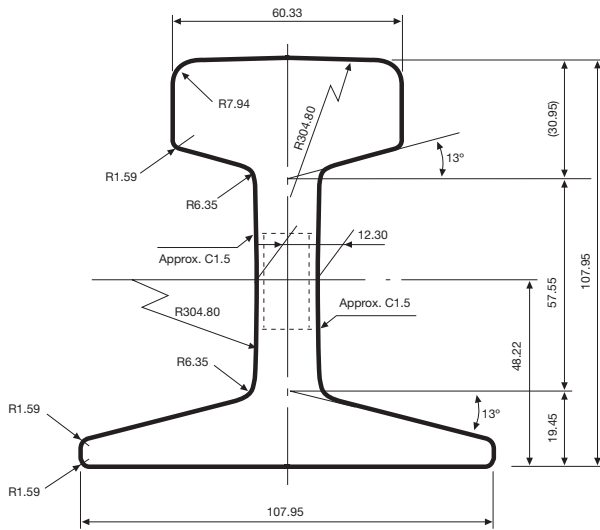
**30KG, 31KG & 41KG RAIL PROFILES**



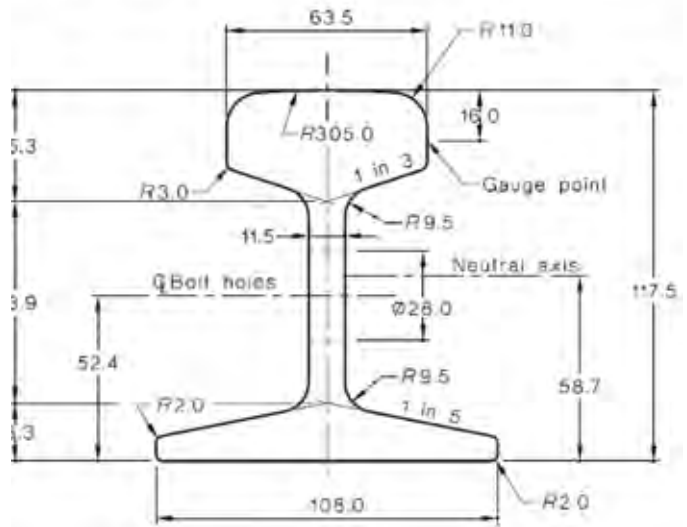
Rail profiles supplied courtesy of EMRAILS – The Australian Rail Stockist.

**30 KG RAIL**

JIS E1101

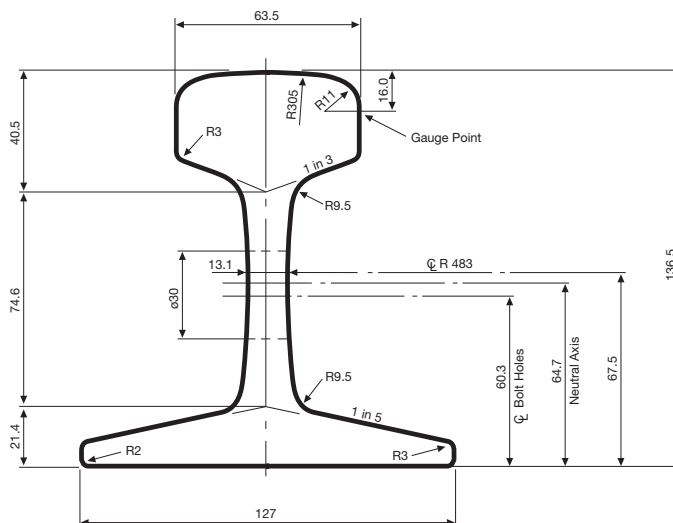


**31 KG RAIL**



**41 KG RAIL**

RT 23



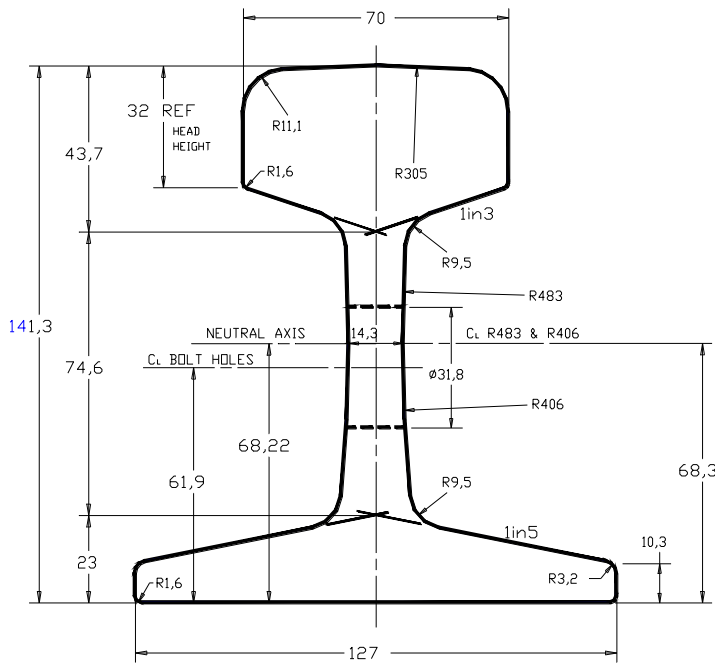
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**47KG & 50KG RAIL PROFILES**

Rail profiles supplied courtesy of EMRAILS – The Australian Rail Stockist.

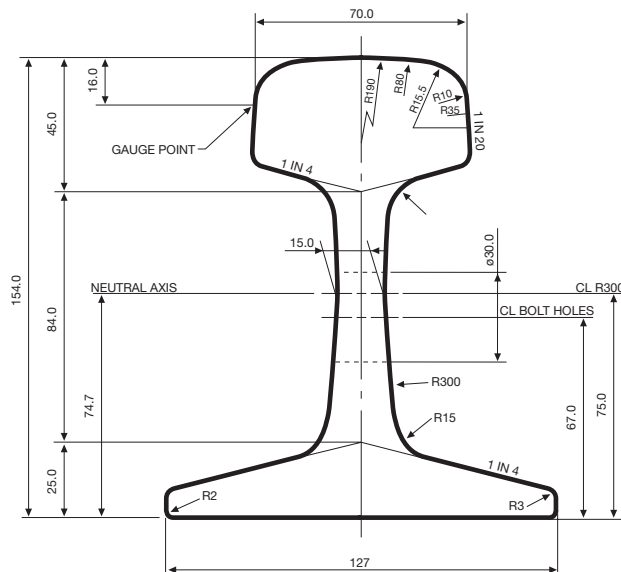


**47 KG RAIL**



**50 KG RAIL**

RT 23



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REFERENCE

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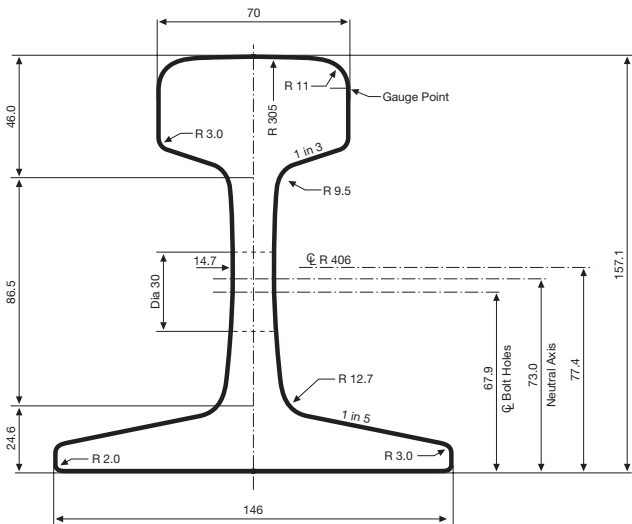
**53KG & 60KG RAIL PROFILES**



Rail profiles supplied courtesy of EMRAILS – The Australian Rail Stockist.

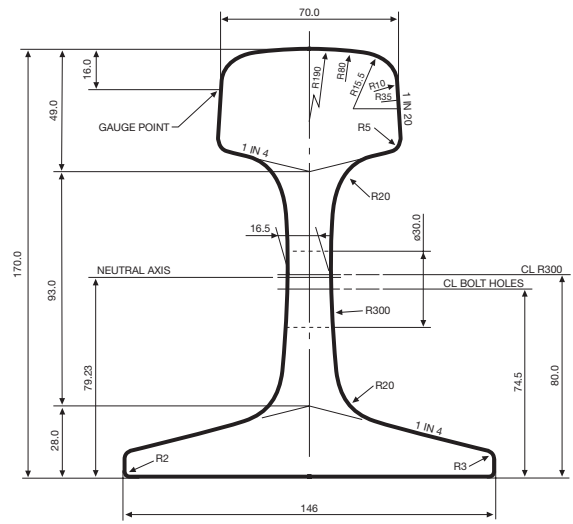
**53 KG RAIL**

RT 25



**60 KG RAIL**

RT 23

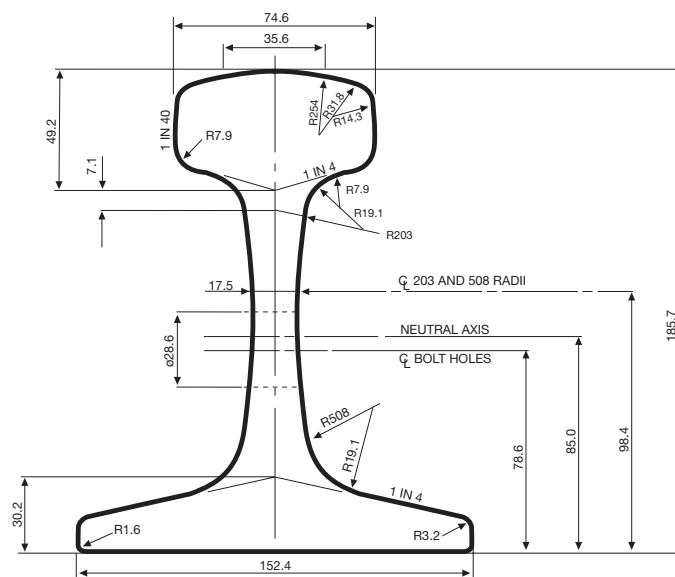


**68KG RAIL PROFILE**

Rail profiles supplied courtesy of EMRAILS – The Australian Rail Stockist.

**68 KG RAIL**

RT 19



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## AUSTRALIAN RAIL HISTORY

### INTRODUCTION

Australia's first rail systems were mostly built when the country consisted of sparsely settled colonies, before they combined to form a Federation of States in 1901.

Until the middle of the 1800s, people travelled around the colonies of the Australian continent by horse-drawn transport and by coastal shipping services. From 1854, when the first steam railway between Melbourne and Port Melbourne started, the railway system of the various colonies developed rapidly. Initially all track and rolling stock was imported, although by the 1880s most of the equipment was being made locally.



While the railways were operated initially by private companies, a shortage of speculation capital resulted in the continued development of the railways being undertaken by individual colonial governments. The initial purpose of the rail development was to connect the hinterland with the major export seaports which, in most cases, were the capital cities.

Planners gave little thought to connecting their railways with the other rail systems.

By Federation in 1901, all States except Western Australia were 'linked' by rail and more than 20,000 km of track had been laid. Sadly, those who envisaged a nation had not contemplated a national rail network. Three different gauges had been used.

New South Wales adopted the European standard gauge of 1435 mm, Victoria and South Australia built with the broad Irish gauge of 1600 mm, and Tasmania, Queensland, Western Australia and parts of South Australia used the narrow 1067 mm gauge. For many years, the different gauges handicapped the effective operation of interstate rail services.

In 1917, a person wanting to travel from Perth to Brisbane on an east-west crossing of the continent had to change trains six times.

The independent development of the State rail systems led to significant incompatibility problems, not only in relation to gauge but also equipment and operating practices.

This incompatibility of the State rail systems was brought to a head during World War II when the war effort required large quantities of goods and personnel to be moved quickly throughout Australia. But it was not until June 1995 that trains could travel between Brisbane and Perth, via Sydney, Melbourne and Adelaide on a standard gauge track.

By 1970 the situation had improved sufficiently so that a passenger could remain on the same train on a journey from Perth to Sydney. Three different gauges still exist in Australia, but the state capitals are now linked by one uniform gauge.

Steam locomotion was used until the 1950s when diesel-electric locomotives began to take over. Steam locomotives were completely withdrawn in the 1970s, but tourist trips are still available on scenic routes in New South Wales, Victoria and Tasmania.

Suburban electric trains operate in Sydney, Melbourne, Brisbane and Perth.



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**FIRST RAILWAYS IN EACH STATE AND TERRITORY**



**New South Wales:** In 1849, the Sydney Railway Company started building the first railway track in New South Wales between Sydney and Parramatta—a distance of 22 km. The project ran into financial difficulty and was taken over by the New South Wales colonial government. The line opened on 26 September 1855.

**Victoria:** The first railway line in Australia opened between Melbourne's Flinders Street Station and Port Melbourne, then called Sandridge, on 12 September 1854. Operated originally as a 1600 mm gauge, it has since been converted to a 1435 mm gauge electric light railway feeding the Melbourne tram system.

**Queensland:** The first railway in Queensland ran from Ipswich inland to Grandchester using the narrow 1067 mm gauge. The system was extended further to the Darling Downs before being connected with Brisbane, the capital, in 1875.

**South Australia:** While South Australia had a horse-drawn railway operating at the mouth of the Murray River in 1854, the first line carrying steam powered trains opened on 21 April 1856 between Adelaide and Port Adelaide. It was built by the colonial government to the then Australian 'standard' gauge of 1600 mm.



**Western Australia:** Commencing in 1871, a private timber railway from Lockville to Yoganup, south of Perth, was the first railway to operate in Western Australia. The first Government railway opened in 1879 between Geraldton and Northampton. In the 19th century the network in south-western Western Australia was built as 1067 mm gauge lines, but in the 20th century the eastern states were connected to Perth and Esperance with standard (1435 mm) gauge lines.

**Tasmania:** A railway line 72 km long opened between the Northern Tasmanian towns of Launceston and Deloraine in 1868. Built to the 1600 mm gauge, the operator was the Launceston and Western Railway Company. Subsequently, the Tasmanian Government passed an act of Parliament incorporating the Tasmanian Mainline Railway Company. This company built the mainline between Launceston and Hobart, the State capital.

**Northern Territory:** The completion of the Alice Springs to Darwin standard gauge rail link in January 2004 resulted in a national rail network linking all mainland State and Territory capital cities. A railway between Darwin and Pine Creek (253 km) became operational on 1 October 1889. The Australian Government took control of the Pine Creek Railway from 1 January 1911. It operated until 1 July 1918, when the line became part of the Commonwealth Railways. The former North Australia Railway linked Darwin with Birdum—a distance of 511 km—by 1929. It was never profitable and has been closed for many years.



**Australian Capital Territory:** A 10 km standard gauge branch line opened between Queanbeyan, NSW, and Canberra, the Australian capital, in 1914. Passenger operations commenced in 1923.

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## STANDARDISATION OF AUSTRALIA'S INTERSTATE TRACK GAUGE

The process standardising Australia's interstate track to a standard, 1435 mm gauge commenced in the 1930s, and was only completed in 1995.

- A standard gauge line connected Brisbane with the New South Wales system in 1930.
- Melbourne was linked to New South Wales by a standard gauge line in 1962.
- The standard gauges link between Perth and Kalgoorlie was completed in 1968.
- The Broken Hill to Port Pirie line in 1969 completed the standard gauge east-west transcontinental connection.
- Alice Springs was connected to the transcontinental line in 1980 with a line built from Tarcoola.
- Adelaide was connected to the transcontinental line in 1982 with the conversion of the line from Crystal Brook.
- Melbourne and Adelaide were linked by a standard gauge line that opened in June 1995.
- The standard gauge link between Alice Springs to Darwin was completed in January 2004



## WORKING TOWARDS A SINGLE NATIONAL INTERSTATE NETWORK

In 1998, the Australian Government, in agreement with the mainland state governments, established the Australian Rail Track Corporation Ltd (ARTC) to manage and develop Australia's interstate track infrastructure as a single entity.

ARTC, which is wholly owned by the Australian Government, manages over 8,500 km of standard gauge track, primarily through direct ownership and long term leases of state owned track between Kalgoorlie in Western Australia and Acacia Ridge in southern Brisbane.

Through ARTC's ownership and lease of the interstate line, the six separate state-based arrangements which historically governed mainland interstate rail operations have been gradually replaced with a single set of common rules, operating standards and access regulations, representing a significant boost to the efficiency of freight rail in Australia.

- In 1998, the ownership of the interstate rail network between Kalgoorlie in Western Australia and Broken Hill on the NSW / South Australian border and Serviceton on the Victorian / South Australian border was transferred from the Australian National Railway Commission to the newly formed ARTC.
- In 1998, ARTC commenced a 16 year lease of the Victorian interstate network from Serviceton on the South Australian border to Albury on the NSW border.
- In 2008, Victoria extended the lease for a further 45 years to coincide with a package of improvement works on the network jointly financed by ARTC, the Victorian Government and the Commonwealth.
- In 2003, ARTC took on a 60 year lease of the NSW interstate and Hunter Valley network from the NSW Government.
- On 15 January 2010, ARTC took over a 60 year lease of the section of track between the NSW border and Acacia Ridge in Brisbane.



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## WORKING TOWARDS NATIONAL RAIL SAFETY REGULATION

In 2009, as part of the Government's Seamless National Economy agenda, the Council of Australian Governments (COAG) agreed to national transport regulation reforms including the establishment of a national rail safety law and national rail safety regulator.

Historically rail safety regulation has been managed by seven separate regulatory authorities, which collectively involved up to 46 pieces of state, territory and Commonwealth regulatory legislation.

To resolve this issue, the Commonwealth and State and Territory Governments agreed to establish a new single National Rail Safety Regulator (NRSR). The NRSR will help overcome inconsistent regulatory practices between the states and territories that have constrained rail transport operators across jurisdictional borders since federation.

The NRSR commenced operations on 20 January 2013, being the regulator for NSW, South Australia, Tasmania and the Northern Territory. Subject to the passage of further state legislation, it is expected that Western Australia, Victoria, Queensland and the ACT will also fall under NRSR within the next twelve months.

For more information, see the National Rail Safety Regulation and Investigation page, or the Office of the National Rail Safety Regulator.

