

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**



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COMPANY PROFILE



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 35 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

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.



QUALITY - SALES - SERVICE - SOLUTIONS

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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

Safety

Zero accidents is our unwavering goal - people's lives depend on it.

Excellence

We set high standards. We apply advanced technology, and we continually innovate and improve. We thrive on challenge and accomplishment.

Ethics

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

Fair Return

We earn a return that fairly rewards the value we deliver.

Sustainability

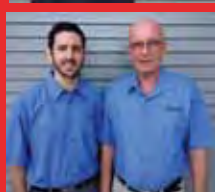
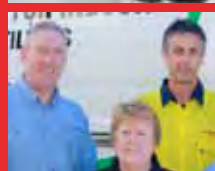
We plan and act for the future - for the long-term good of our company, our customers, and our world.

Mutual Respect

We work by our Specialised Force Covenants, which encourage openness, teamwork, and trust. We value an inclusive culture based on diverse backgrounds, experience and views.



Experience you can trust



Experience you can trust

A proven competent, widespread service network which is supported by a national infrastructure to deliver service, parts and components, is vital in ensuring that your equipment is up and running as fast as possible. In Specialised Force you have a reliable partner who can not only supply the equipment you need, but also has in-depth application knowledge of your working environment and possess a national presence that can provide a high standard of support regardless of customer location. At Specialised Force we stand behind the "SF" logo as a symbol of product quality and service.



National Coverage, But Local Care

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' levels of expectations. Our goal is to make Specialised Force customers more successful through long-term cooperation and partnership development.

A **team** you can trust





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SPECIALISED FORCE
HYDRAULIC TOOLS &
SPECIALISED EQUIPMENT
PTY. LTD.

**Drills, Saws
& Impact
Wrenches**



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DRILLS, SAWS & IMPACT WRENCHES

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PETROL RAIL DRILL (MADE IN USA)

MODEL NO. RB28 & RB35



RB28



RB35

The **RailBoss RB28** and **RB35** from Trak-Star are the world's most powerful and reliable 4-stroke Petrol Powered Rail Drills. The motor is a 1.8kW/2.5 HP Honda engine that you don't have to mix petrol for, just fill and operate. The **RailBoss** features a quill feed arbor with thru-the-tool cooling for use with **Twister Bits (RB28)** and **Carbide Twister Bits (RB35)**. They have a one stroke ergonomic feed handle and a 10 point clamping system and a centre balanced handle. Clamps are available for drilling crane or girder rail.

FEATURES

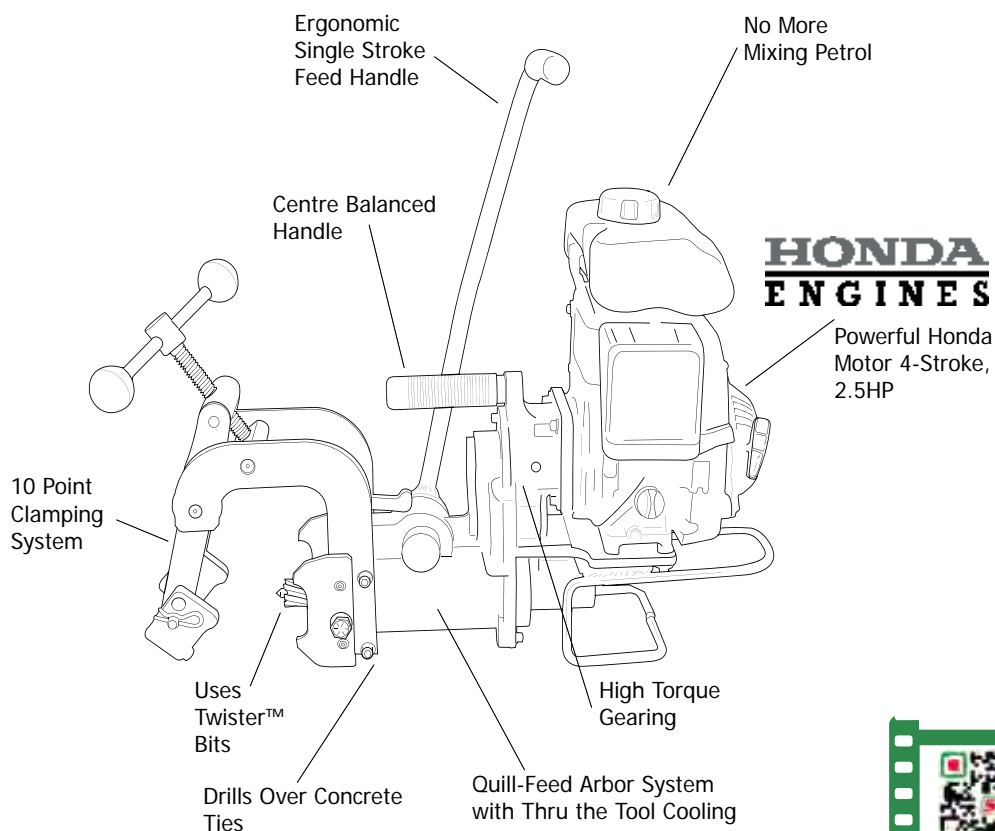
- Honda 1.8kW/2.5 HP, 4-Stroke Engine with Oil Alert (No Mixing Petrol)
 - One Pull Ergonomic Feed Handle
 - High Torque Gear Box
 - 10 Point Clamping System
 - Centre Balanced Handle
 - Drill Holes in under 20 seconds
 - Optional clamp for crane/girder rail
- Suitable for drilling bonding holes
 - One Year Warranty
 - RB28 uses Twister Bits™
 - RB35 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 RB35** runs at a high speed of 350 RPM 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)
RB28	Petrol	High Torque Quill Feed	1.8kW/2.5 HP Honda/4-Stroke Motor	150	43	32-70	20.5
RB35				350			20.0

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



OPTIONS & ACCESSORIES (REFER PAGES 7–9)



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

Model No.	Description
27557	Clamp for Crane Rail (Must use 50mm (2") Depth of Cut Twister Bits)
Q8047KIT	Girder Rail Retrofit Kit
Q8047B	Girder Rail Shoe (RI57/R10)
07495	Holder for 50mm Depth of Cut Twister Bits
03540	Storage Case - Steel



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

SPECIFICATIONS

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

OPTIONS & ACCESSORIES (REFER PAGES 7–9)



Rail Shoes	Retrofit Kits	Bonding	Twister Bits	Coolant Bottle	Coolant & Lube	Storage Case
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Model No.	Description
27557	Clamp for Crane Rail (Must use 50mm (2") Depth of Cut Twister Bits)
Q8047KIT	Girder Rail Retrofit Kit
Q8047B	Girder Rail Shoe (RI57/R10)
07495	Holder for 50mm Depth of Cut Twister Bits
03540	Storage Case - Steel



- 2 Place Holders for extra Twister Bits™
- Drill Holes in less than 28 sec.
- Optional clamp for crane/ girder rail
- One Year Warranty
- Clearance for concrete sleepers

RAIL DRILL ACCESSORIES – TRAK-STAR (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
04429	41	04450	62 x 127 x 127mm (Use on 41, 47 & 53kg Rail)	03540	Weather proof steel storage case, includes lift out tray, handles and lockable. Measures (DxWxH) 292 x 812 x 527 (mm)
04430	47				
04431	50				
04432	53	04451	88 x 130 x 130mm (Use on 50 & 60kg Rail)		
04433	60				
04434	68	40570	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
01592	Pressurised Coolant Bottle with Hose Assembly	11742-1	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
05684	3 Piece Quick Connect/Nipple Kit	11742-4	4 x 3.8 Litres (4 makes 168 Litres)	
40538	Quick Connect Nipple	11743	1 x 18.9 Litre (makes 208 Litres Total)	
01569	On/Off Valve	11746	1 x 48 Gram	
01975	Hose Assembly Only			
01570	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 RB35 Petrol Rail Drill**.

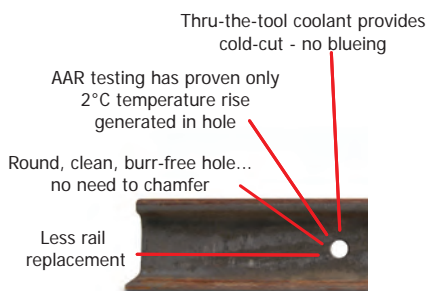
The unique annular (hollow) design and thicker cutter wall offers extended tool life and extra durability.

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.

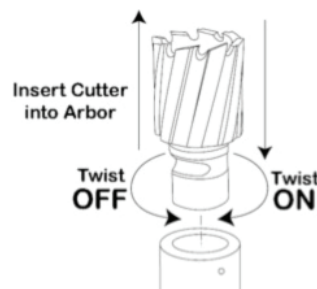
Twister Bits can also be used with similar rail drilling systems with a 19.05mm (3/4") arbour bore. The shank of the bit features a flat that easily adapts to the set-screw style mounting, offering a secure installation, and allowing Trak-Star cutting technology to be used in multiple systems.



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)	BLACK 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 can only be sharpened by a specialist. Contact your nearest SF branch for more information.

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)	GOLD 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)	(")
05570-9/32	Bonding Retrofit Kit	7.1	9/32
07307	Bonding Drill Bit	7.1	9/32
07305	Bonding Drill Bit & Adaptor	7.1	9/32
07304	Bonding Drill Bit	8.0	-
07302	Bonding Drill Bit & Adaptor	8.0	-
05570-3/8	Bonding Retrofit Kit	9.5	3/8
03452	Bonding Drill Bit	9.5	3/8
05565	Bonding Drill Bit & Adaptor	9.5	3/8
07318	Bonding Drill Bit	10.3	13/32
07316	Bonding Drill Bit & Adaptor	10.3	13/32

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



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



#05196



#05568



#27049

ELECTRIC RAIL BONDING DRILL (MADE IN USA)

MODEL NO. BD17

The electric powered Bonding Drill securely attaches to all rail sizes for making electric signal conductivity holes, it is lightweight at only 12kg.

Bonding Bits, Adapter, Rail Shoes, and coolant for operation. Various drill sizes are available.

Unit comes with a 3/8" diameter flattened shank Bonding Bit and Arbor Adapter (Model No. 05565).

FEATURES

- Accurate Quill-Feed Arbor System
- Thru-the-Tool Cooling
- High torque gear box
- 10 Point Clamping System
- One Year Warranty
- Carry handle
- Supplied with pressurised coolant bottle



SPECIFICATIONS

Model No.	Power Option	Description	Motor	RPM	Max. Hole Ø	Depth of Cut (mm)	Rail Capacity (kg)	Dimensions LxWxH (mm)	Unit Wt (kg)
BD17	Electric	Manual Feed	230VAC	450	10.3	20	32-68	533x241x394	12.0

REFER PAGES 7–9 FOR ACCESSORIES

TRANSDUCER ATTACHMENT (MADE IN USA)

Model No.	Description
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 BD17/RB28/RB30.



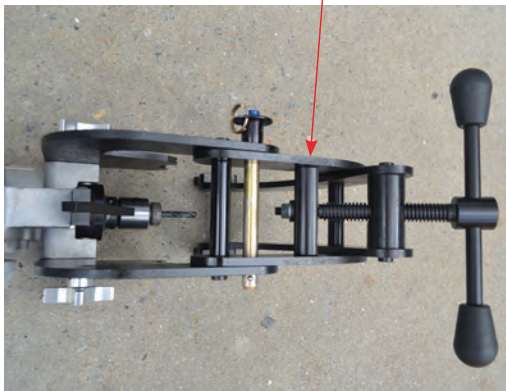
GIRDER RAIL CLAMP RETROFIT KIT (MADE IN USA)



Model No.	Description
Q8047KIT	Girder Rail Retrofit Kit for RB28 & RM42 Rail Drills



Q8047KIT Girder Kit



Model No. Q8047KIT



PETROL TIMBER SLEEPER DRILL

MODEL NO. PRO-TED260RS

TAS/TANAKA two-stroke engine drill with reverse gear.

This portable two-stroke engine drill is packed with 26cc's of power and is ideal for all types of TIMBER work. It features a gear reduction ratio for improved torque, and can be used with a number of attachments.

FEATURES

- **Keyless Chuck**
Heavy duty keyless chuck that holds up to 13mm drill shank making it easy to change drill bits.
- **Reverse Gear**
Easy to change gear with reversible function for maximum operator convenience & versatility.
- **Ergonomic Handles**
Ergonomic reversible front handle for left and right handed use that provides a comfortable grip for long hours of operator comfort.
- **Anti-Vibration**
For Reduced Operator Vibration



SPECIFICATIONS

- 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
- 13mm Chuck
- Max Bit Size: 25mm Wood
- Complies with Australian Emission Laws
- Gear Reduction Ratio - 10.6:1
19.58:1 Forward - 20.38:1 Reverse
- Throttle Setting Device
- Reversible Function
- Cylinder: Chrome Plated for Longer Life
- Connection Rod: Forged Steel
- Petrol/Oil Ratio: 25:1
- Carburetor: Walbro - Diaphragm Type
- Noise Level: 79DB

Model No.	Description
PRO-TED260RS	Petrol Drill with 13mm Keyless Chuck (Supplied Standard)
EDR2400-EXT	Male & Female threaded Extension Shaft 360mm
0593212091	13mm Capacity Keyed Chuck



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

HYDRAULIC RAIL SAW (MADE IN USA)

MODEL NO. HS16



Designed for the serious rail crew, the HS16 is a powerful hydraulic saw that makes cutting rail fast and easy with minimal maintenance.

FEATURES

- Longer frame for better operator comfort
- Arbor support bearing
- Lightweight
- Ergonomic handles with vibration reducing grips
- Hose guards for operator safety
- Reversible motor
- One man designed rail clamp with locating finger
- Operator height adjustable rail clamp

SPECIFICATIONS

Model No.	Power Option	Description	Blade Size	Blade RPM (No load)	Flow Max (LPM)	Pressure Max (Bar)	Dimensions (mm)	Unit Wt (kg)
HS16	Hydraulic	Quick Cutting, Well Balanced, Low Vibration, 406mm (16") Blade	406mm/16"	3,400	38	138	1105 x 432 x 229 (LxHxW)	18.6 (Saw) 9.1 (Clamp) 27.7 (Total)

OPTIONS & ACCESSORIES*

Model No.	Description
27541	Whip Hose Extensions
04415	Trak-Blade 406mm (16") Cut-Off Disc 5,400RPM

* Note all accessories pictured on page 15



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 ³)	Power Output	Power/Weight Ratio	Blade Size	Max Cutting Depth (mm)	Dimensions (mm)	Wt (no fuel or arm) (kg)
K1270/14	Air-Cooled 2 Stroke Engine Petrol	119	5.8kW / 7.8hp	0.39	350mm / 14"	118	730x243x430 (LxHxW)	15.0
K1270/16				0.37	400mm / 16"	145	730x243x430 (LxHxW)	15.7

Model No.	Fuel Tank Volume (L)	Idling Speed (RPM)	RPM	Vibrations Front Handle (m/s ²)	Vibrations Rear Handle (m/s ²)	Sound Pressure Level at Operators Ear (dB(A))	Sound Power Level – Guaranteed LWA (dB(A))
K1270/14	3.4	2,700	5,400	6.1	5.8	104	117
K1270/16			4,700	5.3	5.4		

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
506226611	Rail Attachment	RA10	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)
506226612	Rail Attachment	RA10S	5.8	Suits Tram Rail	
04419	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)
04415	Cut-Off Disc	-	1.4	Ø 406mm (16") Suits K1270/16 & HS16	
505698001	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.
5444502-02	Oil	-	1.1	2-Stroke (1.0L)	Husqvarna 2-stroke oil comes in a 1.0L bottle
K1270-16SKIT	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	510 24 41 03	1
B	Belt	544 97 63 01	1
C	Fuel Filter	506 26 41 11	1
D	Spark Plug	503 23 51 09	1
E	Starting Cord	506 33 56 15	1

Generic Model Shown



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 on 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)
SRL35P	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.	SRL35E
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



PETROL IMPACT WRENCH (MADE IN EUROPE)

MODEL NO. MASTER35



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)
MASTER35	Petrol 2-Stroke	Emak 56.5	24.5 (1")	16-32	500-1800 (5 adjustable settings)	570 x 280 x 445 LxHxW	18.3

ACCESSORIES

MODEL NO. MASTER35BOX



Model No.	Description
MASTER35BOX	Carry Case – Steel

ENGINE TECHNICAL INFORMATION

- Two stroke/cycle Special
- Airtec EMAK 056 56.5 c.c.
- Maximum free speed 12,000 R.P.M.
- Power 3.1KW
- 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

AIRTEC



DRILLS, SAWS & IMPACT WRENCHES

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IMPACT WRENCH (MADE IN EUROPE)

AIRTEC

Qty	Model No.	Description
1	550E	Wood Auger Attachment European 9mm Hex
2	19DP	19mm Hardwood Auger Bits Premium Quality 9mm Hex
1	452	41mm A/F Hex x 1" Square Drive Impact Socket
1	449	42mm A/F Hex x 1" Square Drive Impact Socket
1	470	42mm A/F Hex x 1" Square Drive Deep Impact Socket
1	495	32mm A/F Hex x 1" Square Drive Deep Impact Socket
1	450	36mm A/F Hex x 1" Square Drive Impact Socket
1	451	38mm A/F Hex x 1" Square Drive Impact Socket
1	462	24mm Square x 1" Square Drive Impact Socket
1	454	28mm x 21mm Rectangular x 1" Square Drive Impact Socket
2	MS50	50mm Retaining Clip
2	MS60	60mm Retaining Clip
2	MS70	70mm Retaining Clip
1	407	200mm x 1" Square Drive Extension
1	409	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)
2403	7/16"	1/2	54	28	31	38
QR-720	5/8"	3/4	79	38	41	38
550E	9mm	1	90	55	37	55
550A	7/16"	1	90	55	37	55
QR-820	5/8"	1	83	54	41	38

For More Accessories - Refer Next Page



IMPACT WRENCH (MADE IN EUROPE)

AIRTEC

IMPACT SOCKETS 1" SQUARE DRIVE

Metric		
Standard Length Model No.	Long Type Model No.	Size Metric (mm)
537	-	19
478	-	20
463/1	-	21
453	-	22
455	-	23
462	-	24
508	-	25
561	-	26
562	-	28
496	712	30
447	495	32
498	728	34
479	533	35
450	466	36
451	465	38
456	457	39
452	458	41
449	470	42
488	459	46

Imperial		
Standard Length Model No.	Long Type Model No.	Size Imperial (")
-	430	7/8
-	485	15/16
-	425	1
402	-	1 1/8
-	433	1 1/4
403	445	1 5/16
404	431	1 3/8
-	440	1 7/16
-	438	1 1/2
-	441	1 9/16
483	432	1 5/8
405	434	1 11/16
-	435	1 3/4
-	436	1 13/16
-	437	1 7/8
-	427	2
-	442	2 3/16
-	428	2 1/4



EXTENSIONS

1" SQ Drive M&F	
Model No.	Length (mm)
414	150
407	200
408	250
409	305
415	405

RECTANGULAR SCREW SPIKE SOCKETS 1" SQ DRIVE

Model No.	Size (mm)	Details
511	24 x 20	60mm Length
497	24 x 28	60mm Length
454	28 x 21	60mm Length
454D	28 x 21	100mm Length
1991	28 x 28	60mm Length

Standard Length Sockets 60mm Long

Long Type Sockets 100mm Long



DRILLS, SAWS & IMPACT WRENCHES

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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)
1750.0090-B	Carrier – Narrow Gauge 1067mm	35.8	1080 x 1625 x 870 Open (440 locked)
1750.0100-B	Carrier – Standard Gauge 1435mm	30	
1750.9999-B	Carrier – Broad Gauge 1600mm		

OPTIONAL ACCESSORIES

Model No.	Description
2801.7560	Hook Assembly for horizontal use
2801.7550	Wrench Bracket for vertical use
2801.7520	Narrow Gauge to Standard Gauge & Broad Gauge to Standard Gauge Bar 1435mm
2801.7525	Narrow Gauge to Broad Gauge & Standard Gauge to Broad Gauge Bar 1600mm
2801.7535	Wheel Assembly Standard Gauge & Broad Gauge to Narrow Gauge
2801.7515	Bar 1000mm Standard Gauge & Broad Gauge to Narrow Gauge
2801.7530	Wheel Assembly Kit with Handle for Standard & Broad Gauge
28004800	Safety Locking Knob for Carrier



28004800 Safety Locking Knob

Model No. 28004800

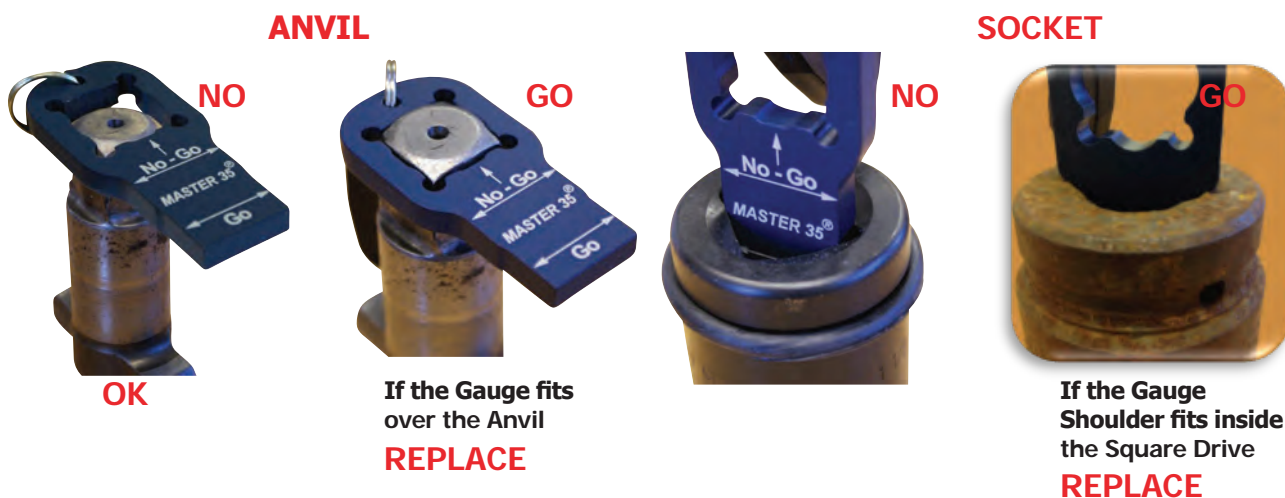
Safety locking card and knob for positive engagement of the holding the arm

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

HYDRAULIC 1" SQUARE DRIVE IMPACT WRENCH (MADE IN USA)

FEATURES

- Lightweight aluminium frame
- Unique swing handle so it can be used both vertically and horizontally for more convenient use
- Cushion grips reduce vibration to increase operator's comfort
- Overspeed protection valve
- The highly efficient hydraulic motor will produce up to 3,796Nm of torque
- Optional "stand up" handle

SPECIFICATIONS

Model No.		WI-10-60-0
Torque (Nm)		3,796
Flow (lpm)		40
Pressure	Bar/lpm	140 / 20-40
	PSI/gpm	2,000 / 5-10
Hydraulic System		Open Centre
Length (cm)		36.8
Width (cm)		17.8
Height (cm)		22.2
Weight Dry (kg)		11.8



See below for optional accessory stand up handle

See pages 110–111 for suitable Low Pressure Pumps

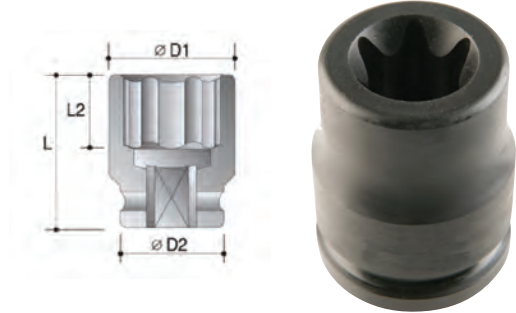
MODEL NO. WI-10-60-3 DEDICATED STAND UP HANDLE FOR # WI-10-60-0

- Stand up design provides for safer operator posture
- Kick plate for holding tool against bolt
- Swivel fittings on hose whips
- Ergonomically designed



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

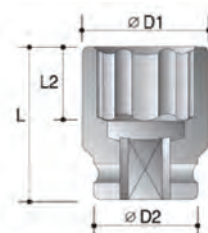
- External TORX® head railway spikes
- 1" Square Drive Impact Sockets
- High Quality Impact Grade
- For Assembly and Repair Of Railway Tracks



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

1" DRIVE IMPACT SOCKETS, KITS & RETAINING RINGS

HIGH TORQUE - MODEL NO. 60 SERIES



FEATURES

- Industrial Quality exceeding ISO 1711-2 & ASME B 107.2-1995
- Safety first with each socket **stamped with a safe maximum torque rating**
- Perfect Setup, all sockets are the same length to suit fixed length reaction arms
- Right socket for the right tool, all sockets are gold coloured for easy identification
- Socket Retainers supplied with each socket with correct Pin and 'O' Ring

Torque sockets are specifically designed for high torque applications. They ensure safe operation with hydraulic wrenches, pneumatic nut runners and multipliers.

Complete sets



SPECIFICATIONS

Model No.	Drive	Size Metric	Size Imperial	D2	D1	L2	L	Metric Set # IM8MHTS Contents:	Imperial Set # IM8HTS Contents:
6055S030	1"	30	1-3/16	54	51	21	85		
6055S032	1"	32		54	53	22	85	✓	
6005S110	1"		1-5/16	54	55	22	85		✓
6055S035	1"	35	1-3/8	54	57	22	85		
6055S036	1"	36		54	58	25	85	✓	
6005S114	1"		1-7/16	54	58	25	85		✓
6055S038	1"	38	1-1/2	54	61	25	85	✓	✓
6055S041	1"	41		54	64	27	85	✓	
6005S120	1"		1-5/8	54	64	27	85		✓
6055S043	1"	43	1-11/16	54	68	27	85	✓	✓
6055S046	1"	46	1-13/16	54	72	30	85	✓	✓
6005S128	1"		1-7/8	54	73	32	85		✓
6055S048	1"	48		54	74	32	85		
6005S130	1"		1-15/16	58	76	32	85		✓
6055S050	1"	50		58	77	35	85	✓	
6005S200	1"		2	58	78	35	85		✓
6055S052	1"	52		58	79	35	85	✓	
6005S202	1"		2-1/16	58	79	35	85		
6055S054	1"	54	2-1/8	58	82	35	85		✓
6055S055	1"	55		58	83	35	85	✓	
6005S206	1"		2-3/16	58	83	35	85		✓
6005S208	1"		2-1/4	58	86	40	85		✓
6055S060	1"	60		58	89	42	85	✓	
6005S212	1"		2-3/8	58	89	42	85		✓
6005S214	1"		2-7/16	58	91	42	85		
6005S216	1"		2-1/2	58	93	42	85		
6055S065	1"	65	2-9/16	58	95	42	85	✓	
6055S070	1"	70	2-3/4	58	102	42	85	✓	

IMPACT SOCKET SETS – IMPERIAL & METRIC, STANDARD & DEEP

High quality impact socket sets in metric or imperial and standard or deep, supplied in case.



Model No.			
600201901	600221901	605202601	605222601
Description			
IMPERIAL 19 Piece ½" Drive 6 Point Impact Socket Set & Case	IMPERIAL DEEP 19 Piece ½" Drive 6 Point Impact Socket Set & Case	METRIC 26 Piece ½" Drive 6 Point Impact Socket Set in Case	METRIC DEEP 26 Piece ½" Drive 6 Point Impact Socket Set & Case
Contains Sizes		Contains Sizes	
3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8", 1-7/16, 1-1/2		10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36	

IMPACT SOCKET RETAINING RINGS



RETAINING RING (RET RING) INFORMATION



The RET RING is the solution for safer retention of impact sockets, which can rotate at speeds up to 5000RPM.

The original RET RING was introduced to prevent serious injuries caused by flying or slipping steel pins used with the old two piece socket retention system for large impact wrenches. The RET RING's new resin pin with crush gauge is designed to index in the retention holes on the tool anvil and socket at the correct location to maximise safe retention of power sockets.

New RET RING will tell you when to replace worn sockets.

Designed with a new resin CRUSH GAUGE on the pin to indicate when a socket is excessively worn and unsafe to use. The CRUSH GAUGE is on the rotational edge of the resin insert and will show the mismatch of alignment holes occurring due to worn square drive surfaces and socket. If the CRUSH GAUGE shows compression on its raised ridge to the flat surface of the resin insert, it will warn the operator to replace the socket.



Home-made or poor quality retaining rings can cause serious injury.

Model No.	Description
RR37511	RET-RING 3/8"DR (1.100"ID)
RR37512	RET-RING 3/8"DR (1.200"ID)
RR37560	RET-RING 3/8"DR (0.600"ID)
RR37567	RET-RING 3/8"DR (0.670"ID)
RR37575	RET-RING 3/8"DR (0.750"ID)
RR37582	RET-RING 3/8"DR (0.820"ID)
RR37595	RET-RING 3/8"DR (0.950"ID)
RR50080	RET-RING 1/2"DR (0.800"ID)
RR50087	RET-RING 1/2"DR (0.870"ID)
RR50095	RET-RING 1/2"DR (0.950"ID)
RR50105	RET-RING 1/2"DR (1.050"ID)
RR50115	RET-RING 1/2"DR (1.150"ID)
RR50130	RET-RING 1/2"DR (1.300"ID)
RR50145	RET-RING 1/2"DR (1.450"ID)
RR50160	RET-RING 1/2"DR (1.600"ID)

Model No.	Description
RR10005CG	RET-RING 3/4"DR (1-1/4"ID)
RR10008CG	RET-RING 1"DR (1-3/4"ID)
RR10010CG	RET-RING 1"DR (2"ID)
RR10015CG	RET-RING 1"DR (2-1/8"ID)
RR10016CG	RET-RING 1"DR (2-1/4"ID)
RR10017CG	RET-RING 1"DR (2-1/2"ID)
RR10019CG	RET-RING 1"DR (2-5/8"ID)
RR10020CG	RET-RING 1-1/2"DR (2-7/8"ID)
RR10021CG	RET-RING 1-1/2"DR (3"ID)
RR10025CG	RET-RING 1-1/2"DR (3-3/8"ID)
RR10030CG	RET-RING 1-1/2"DR (3-7/8"ID)
RR10032CG	RET-RING 3/4"DR (1-7/16"ID)
RR10034CG	RET-RING 3/4"DR (1-5/8"ID)
RR10035CG	RET-RING 1-1/2"DR (4-3/8"ID)
RR18708CG	RET-RING 3/4"DR (1-3/4"ID)
RR18710CG	RET-RING 3/4"DR (2"ID)
RR18715CG	RET-RING 3/4"DR (2-1/8"ID)
RR18716CG	RET-RING 3/4"DR (2-1/4"ID)

WOOD IMPACT AUGERS – HEX SHANK – TUNGSTEN CARBIDE TIPPED

PENETRATOR SELF FEEDING WOOD AUGER – MODEL NO. PN SERIES

PENETRATOR™ wood boring drill bits drill faster than ordinary steel auger bits. Milled from a solid bar of steel, the PENETRATOR™ is stronger than most conventional wood drilling auger bits. This truly heavy-duty drill bit is able to accept the high torque load and high RPM level generated by the most powerful impact wrenches and drills. The PENETRATOR™ also works well in heavy-duty electric, pneumatic, and petrol powered drills.

Model No.	Size (mm)	USL – Universal Shaft Length (mm)	OAL – Overall Length (mm)	Weight (mm)
25.4mm Diameter				
PN51816	25.4	533	609	0.9
PN53316	25.4	838	914	1.4
PN54416	25.4	1,143	1,219	2.1
26.9mm Diameter				
PN51817	26.9	533	609	1.1
PN53317	26.9	838	914	1.6
PN54417	26.9	1,143	1,219	2.3
28.5mm Diameter				
PN51818	28.5	533	609	1.3
PN53318	28.5	838	914	1.9
PN54418	28.5	1,143	1,219	2.5
30.1mm Diameter				
PN51819	30.1	533	609	1.5
PN53319	30.1	838	914	2.1
PN54419	30.1	1,143	1,219	2.8
31.7mm Diameter *				
PN51820	31.7	533	609	1.4
PN53320	31.7	838	914	1.9
PN54420	31.7	1,143	1,219	2.5
34.9mm Diameter *				
PN51822	34.9	533	609	1.6
PN53322	34.9	838	914	2.0
PN54422	34.9	1,143	1,219	2.7
38.1mm Diameter *				
PN51824	38.1	533	609	1.4
PN53324	38.1	838	914	2.1
PN54424	38.1	1,143	1,219	3.5

* 5/8" hex shanks are recommended for all impact augers 25.4mm OD and above due to the high torque requirements. Made to order, longer lead times may apply



5/8" Hex Shank



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

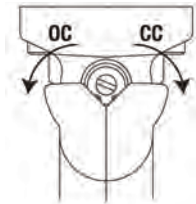
Longer, wider trigger provides improved control especially with a gloved hand

Impact and temperature resistant replaceable polymer grip dissipates heat

Internal hydraulic check valve eliminates damage from an improperly connected tool

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.



Trigger Guard Model Shown

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 24–25 & 32–33 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 24–25 & 32–33 for impact accessories

NUT RUNNERS

ORDERING INFORMATION

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

SPECIFICATIONS

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

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
2801	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
49314	2	Impact adaptor 1/2" square drive x 7/16" hex male - heavy duty
EX-501-5	3	Impact adaptor 1/2" square drive x 7/16" hex male - lock pin, 127mm long
EX-501-B-5	4	Impact adaptor 1/2" square drive x 7/16" hex male - lock ball, 127mm long
XAD4-3	5	Impact adaptor 1/2 dr f x 3/8 dr m
XAD4-6	5	Impact adaptor 1/2 dr f x 3/4 dr m
X4X-125	6	1/2 Drive impact extension 125mm
X4X-250	6	1/2" Drive impact extension 250mm
X4UJB	7	1/2 Drive impact universal joint
2403	8	7/16" Hex (1/2" Square Drive) Heavy Duty quick change chuck (Suits Bushranger Impact Auger Bits)



IMPACT DRIVER - J HOOK



Model No.
JHOOK-CENTRE



Model No.
JHOOK-OFFSET

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.



Model No.
JHOOK-CENTRE



Model No.
JHOOK-OFFSET

IMPACT SOCKETS, ADAPTORS & EXTENSIONS



Model No. **MET-2450**



Model No. **98413L**

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

Model No.	Brand	Description
MET-2450	METRINCH *Sizes included in set (15 Sockets in Plastic case)	Kit, Impact Socket Set, Deep Wall (11-25mm and 7/16-1") Equivalent to a 42 piece set
98413L	T&E	Kit, Impact Socket Set, Deep Single Hex (11,12,13,14,16,17,18,19,21,22,24,27&30) In Metal Case
MET3000	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	-	-
¹ MET-2251B	11	7/16	3/16	1/4
¹ MET-2252B	12	15/32	-	-
¹ MET-2253B	13	1/2	-	-
¹ MET-2254B	14	19/32	1/4	5/16
¹ MET-2255B	15	9/16	-	-
¹ MET-2256B	16	5/8	5/16	3/8
¹ MET-2257B	17	11/16	-	-
¹ MET-2258B	18	23/32	-	-
¹ MET-2259B	19	3/4	3/8	7/16
¹ MET-2260B	20	25/32	-	-
¹ MET-2261B	21	13/16	7/16	1/2
¹ MET-2262B	22	7/8	-	-
¹ MET-2263B	23	29/32	1/2	9/16
¹ MET-2264B	24	15/16	-	-
¹ MET-2265B	25	1	-	-
	26	1 & 1/8	9/16	5/8
MET-2267B	27	1 & 3/32	-	-
MET-2268B	28	1 & 1/8	-	-
	29	1 & 5/32	5/8	11/16
¹ MET-2270B	30	1 & 3/16	-	-
	31	1 & 7/32	-	-
MET-2272B	32	1 & 1/4	11/16	3/4

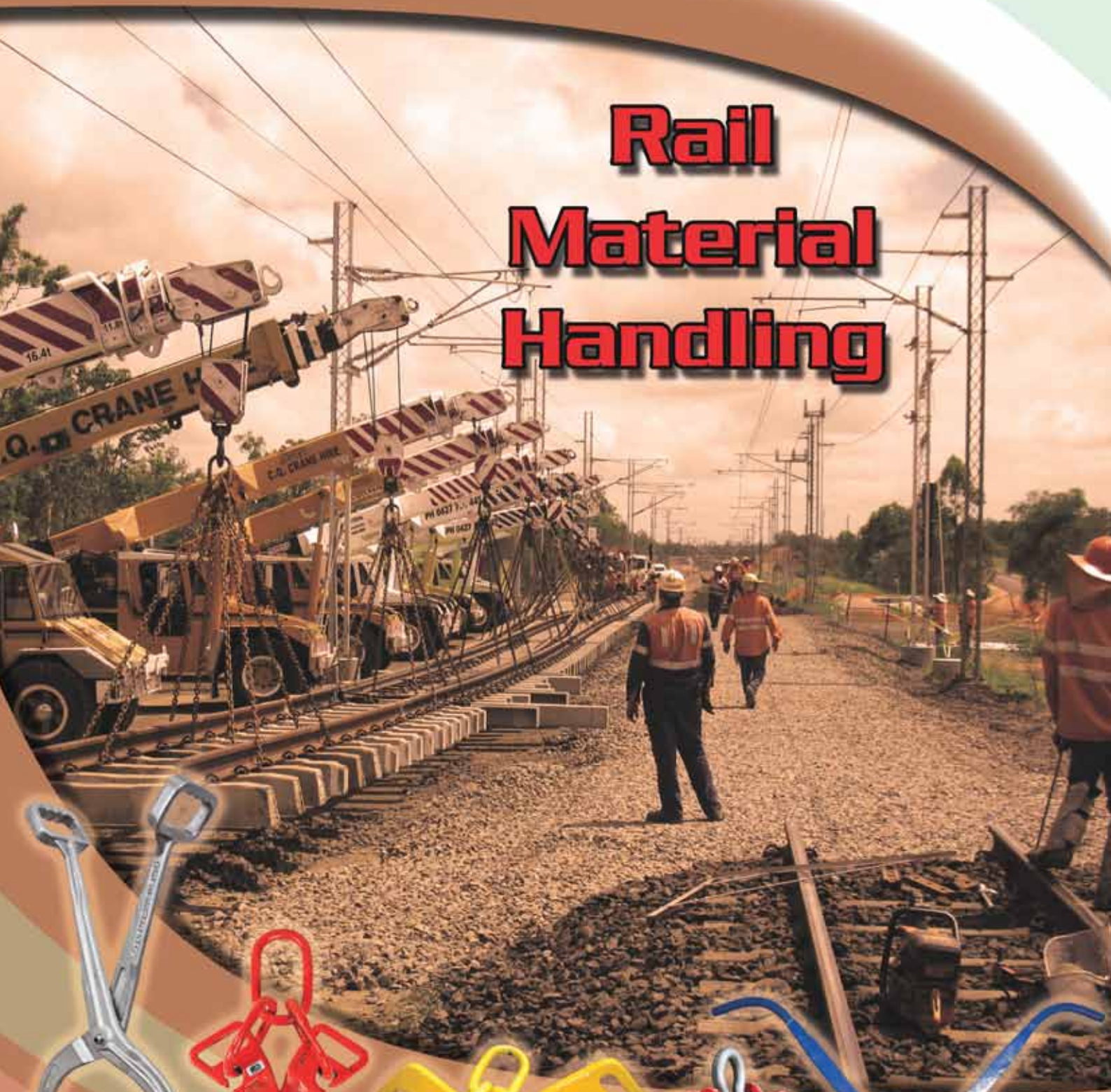
IMPACT SOCKETS (SINGLE HEX), DEEP, 1/2" SQUARE DRIVE

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



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HYDRAULIC TOOLS &
SPECIALISED EQUIPMENT
PTY. LTD.

Rail Material Handling



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RAIL MATERIAL HANDLING

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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)
RHD3.3-IPS	3,000	LITTLE DAWG	19mm / 3/4"	7,500	68	6.8
RHD6.0-IPS	5,400	RAIL DAWG II	32mm / 1-1/4"	13,607	68	22.7
RHD8-IPS	7,000	BIG DAWG	32mm / 1-1/4"	18,000	68	37.3
RHD10-IPS	9,000	MEGA DAWG	35mm / 1-3/8"	22,679	68	40.8



RHD3.3-IPS



RHD6.0-IPS



RHD8-IPS On 68kg Rail



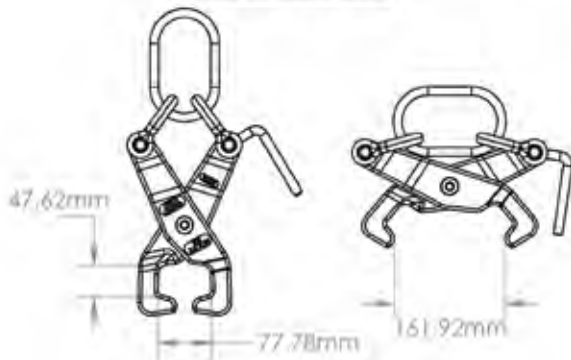
RHD10-IPS

RAIL TONGS (MADE IN CANADA)



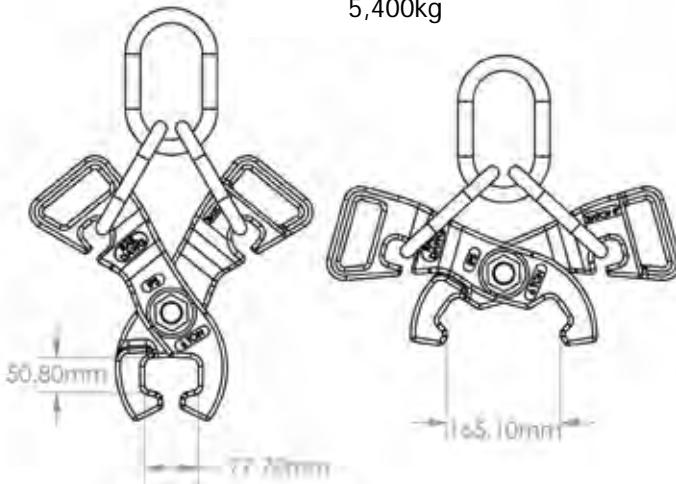
RHD3.3-IPS

3,000kg



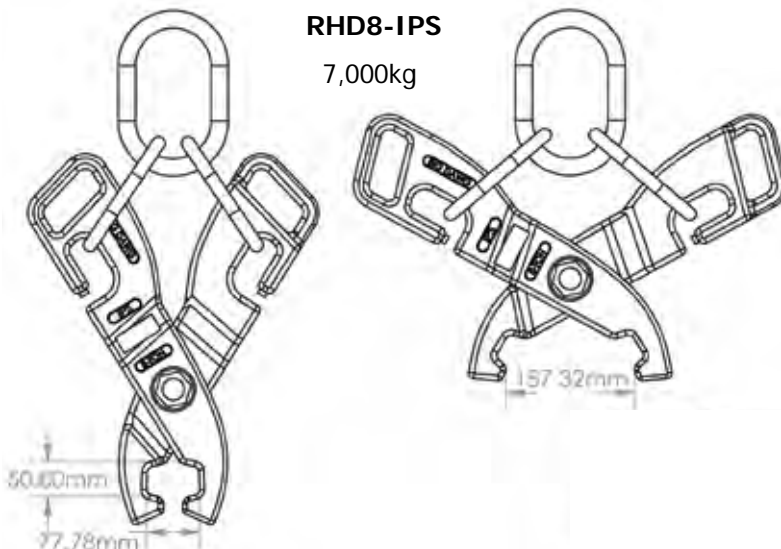
RHD6.0-IPS

5,400kg



RHD8-IPS

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 40–41 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)
2310045B	2,721*	4,000	Crane Hook	2310045A-01	317 x 254 x 610	61.8
2310045A	2,721*	4,000	Square Handle	2310045A-01	317 x 254 x 610	62.7

SPARE PARTS

Model No.	Description	WLL (kg)
2310045A-01	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.

MODEL NO. FHD6.0-IPS

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)
FHD6.0-IPS	5,443	19,594	673 x 432 x 203mm (813mm with handle raised)	27

SPREADER BAR (MADE IN CANADA)

MODEL NO. LSB-IPS-IU

IPS manufactures a lightweight spreader bar complete with 2 Little Dawg Rail Tongs (RHD3.3-IPS). Designed and certified with a 1,814kg working load limit and designed to lift longer lengths of rail.

FEATURES

- Supplied with 2 x RH3.3-IPS lifting tongs
- Tested & certified

SPECIFICATIONS

Model No.	WLL (kg)	Proof Test (kg)	Unit Wt (kg)
LSB-IPS-IU	1,814	2,721	37.3



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.

FEATURES

- 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)
TT2.2-IPS	Sleeper	267 x 77 x 597	T-500-IPS	10.1



MODEL NO. 2310108A HAND SLEEPER / TIMBER TONGS (MADE IN CANADA)

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)
2310108A	Sleeper	787 x 286 x 134	2310109A	3.5

MODEL NO. 4123 SERIES TIMBER SLEEPER TONGS

Lifting tongs used on timber sleepers for rail.



SPECIFICATIONS

Model No.	Image #	Description	Jaw Opening (mm)	Unit Weight (kg)
4123-15	1	Skidding Tongs	553	4.5
4123-14	2	Two-Man Rail Tong	95	8.6
4123-93	3	Timber Dragging Tongs	508	6.8
4123-87	4	Tie Carrier (Crane Type)	483	16.8
4123-88	5	Timber Carrier (Crane Type)	737	23.8
4123-85	6	Aluminium Tie Tong (Replaceable Tip)	394	4.1
4123-23	7	Two-Man Timber Tong	394	5.5
4123-21	8	One-Man Tie Tong	394	4.5



RAIL PULLER (MADE IN CANADA)

MODEL NO. 2310000C

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)
2310000C	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.
4123-72	4106-24
FEATURES	FEATURES
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)
4123-72	Standard "T"	12	45-64kg/m	18.2
4106-24	Crane	12	Crane Maximum Limit 1,814kg	7.7 (Approx. Depends on rail size)



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)
2310044C	Square	5443	7,257	129.3
2310044D	Hook	5443	7,257	127.0

Model No.	Description	Dimensions (LxW) (mm)	Weight (kg)
1347	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)
HDT-500	406 x 381 x 254 (355 with handle raised)	4,535	HDT-500-01	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)
2310004C	673 x 711 x 483	2310004C-01	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)
2310055A	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)
2310055A-03	132

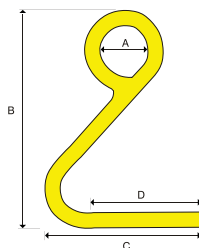


RAIL MATERIAL HANDLING (MADE IN AUSTRALIA)

SLEEPER LIFTING HOOK

MODEL NO. SLH1.5T

High quality powder coated lifting hook for lifting rail sleepers.

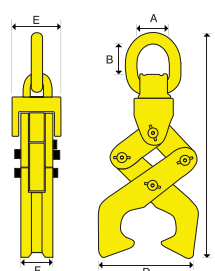


Model No.	WLL (kg)	Dimensions (mm)					Unit Wt (kg)
		A	B	C	D	E	
SLH1.5T	800/Pair	50	240	170	125	19	1.1

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.

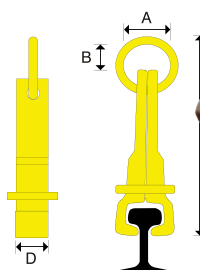


Model No.	WLL (kg)	Suits Rail (kg)	Dimensions (mm)					Unit Wt (kg)
			A	B	C	D	E	
RLT3T	3,000	41-68	48	46	370	150	50	8.8
RLT3T-LOCK	3,000	41-68	48	46	370	150	50	8.8

COLLAR TYPE RAIL LIFTING CLAMP

MODEL NO. RLC2.5T SERIES

Suits rail from 41-68kg

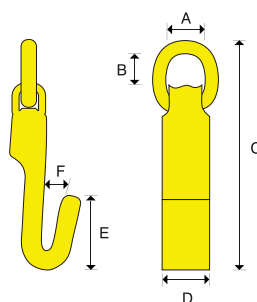


Model No.	WLL (kg)	Suits Rail (kg)	Dimensions (mm)				Unit Wt (kg)
			A	B	C	D	
RLC2.5T	2,500	41-68	100	75	440	65	11.5

RAIL ROLL OVER HOOK

MODEL NO. RORH

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



Model No.	WLL (kg)	Dimensions (mm)						Unit Wt (kg)
		A	B	C	D	E	F	
RORH	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)
RTC-550	15.2	41-68	2.0

SLEEPER PLATE PULLER - MODEL NO. TPP-42S

This lightweight tool is designed to safely, quickly and easily adjust the position of sleeper plates.



SPECIFICATIONS

Model No.	Length of Handle (m)	Unit Wt (kg)
TPP-42S	1.07	0.8

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

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 RECOMENDED 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.



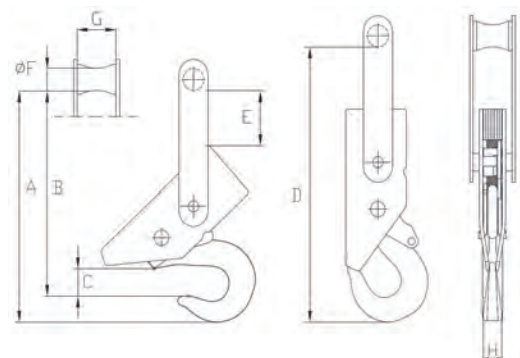
RELEASE
The GIGASENSE IS Hook automatically frees itself from the load and is ready for the next lifting operation.

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		A	B	C	D	E	F	G		
		5:1										
300159	IS-2	1.6	40-50	310	280	60	340	80	20	42	3.0	
300165	IS-5	4	50-70	360	325	50	430	90	32	67	6.7	
300161	IS-10	8	200-250	490	425	65	580	110	44	58	15.0	
300162	IS-15	12	500-700	525	460	80	625	115	54	72	24.0	
300163	IS-20	16	600-800	580	500	80	700	130	65	83	37.0	
3001515	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)
RSL-800	470x127x165	31.75	5.9

SLEEPER HANDLING EQUIPMENT (MADE IN THE UK)

High quality powder coated lifting hook for lifting rail sleepers.

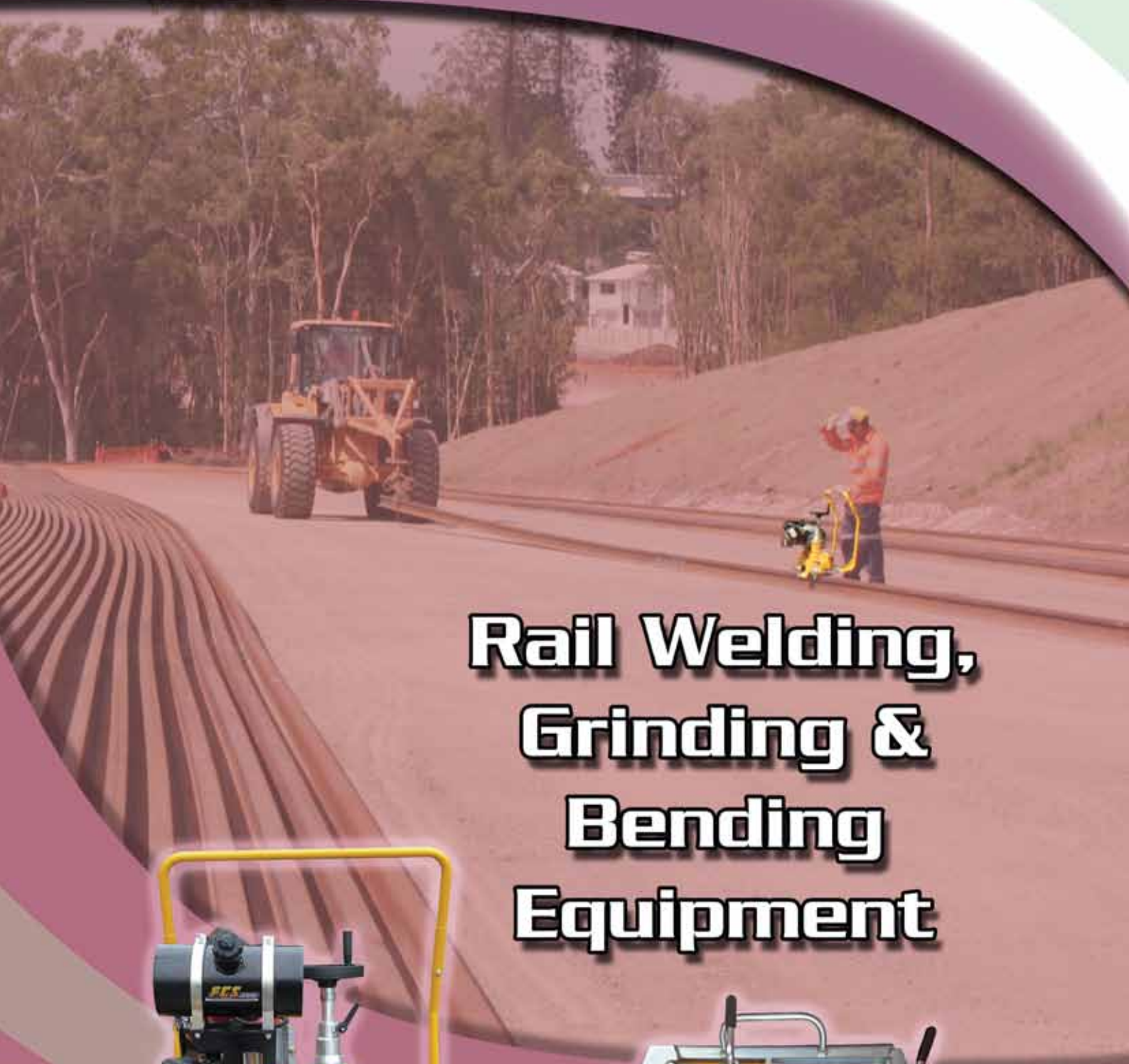
Model No.	Description	Model No.	Description
RB/BR/007B	Pandrol Housing Sleeper Hook - Left	RB/BR/007A	Pandrol Housing Sleeper Hook - Right
RB/BR/225E-L	E Clip Dropper Chain Assembly Left	RB/BR/225E-R	E Clip Dropper Chain Assembly Right
39/68953	E Clip Sleeper Scissor Lifter Rb/Br/142	RB/BR/080	Fastclip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



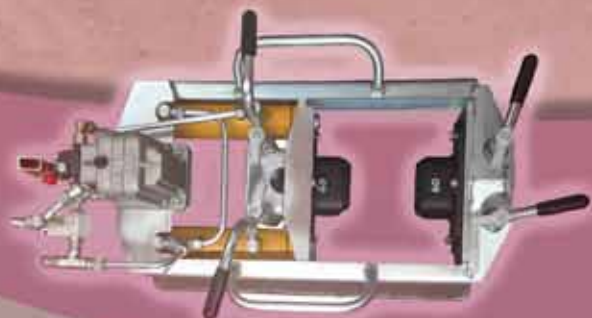
Pandrol 'E' Clip	Sleeper Lifter	Fastclip
Tests have shown a staggering 12 to 1 safety factor (based on 350Kg WLL). Available in left and right hand versions.	Designed to be used in conjunction with dropper chains to suit. Designed to be used in conjunction with dropper chains to suit.	The fastclip dropper 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



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WELDING, GRINDING & BENDING

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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)
4021-01	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)
P4	Pump	Riken Hand Pump, 2 Speed, Integrated Safety Valve, 1,800cc Useable Oil	700	11.5
HPS-0602ER	Hose	Durapac 2 metre high pressure hose with CEJN safety speed coupling one end	700	1.5

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)
PR3560	750	1,000	650	570	None Supplied	112*
PR3560-P	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	PR3560-M-30	PR3560-CM-30
41	PR3560-M-41	PR3560-CM-41
47	PR3560-M-47	PR3560-CM-47
50	PR3560-M-50	PR3560-CM-50
53	PR3560-M-53	PR3560-CM-53
60	PR3560-M-60	PR3560-CM-60
68	PR3560-M-68	PR3560-CM-68

* Must order 2 units, 1 for each ram end



HAND OPERATED RAIL WELD SHEARS (MADE IN ITALY)

MODEL NO. TSA365/2

The TSA365/2 hand operated rail weld shears are designed to perform the shearing and removal of excess metal accumulated during Thermit welding on a welded rail. They consist of a powerful hand pump which moves two hydraulic cylinders with shear blade. The long handle pump ensures minimum operator effort, while a switch determines the direction of travel of the cylinders. Two carry handles placed on the well-balanced machine, allow easy movement and positioning.

OPTIONAL

- Hydraulic power unit with petrol engine
- Shear Blades For 36kg & 41kg Rail, available upon request

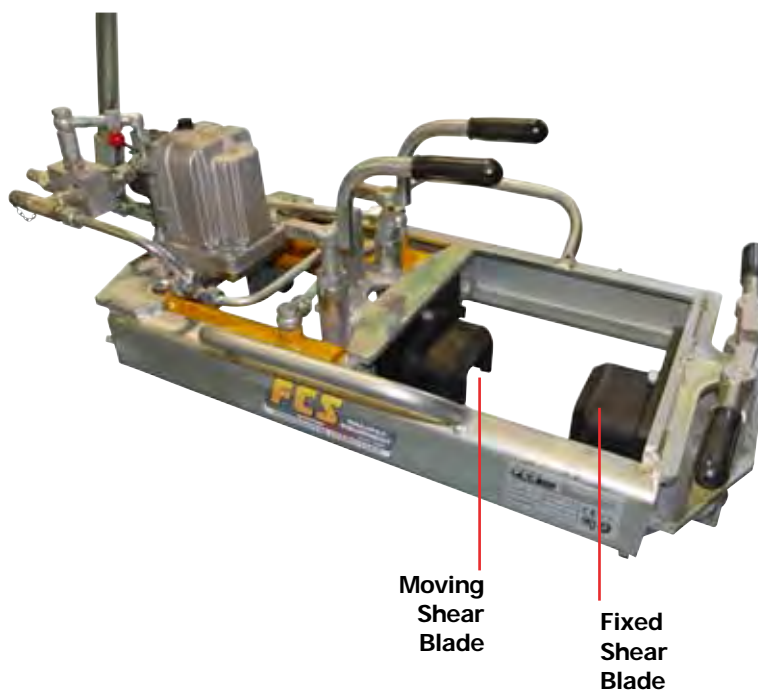


SPECIFICATIONS

Hand Pump Speed	Shear Force (Tonne)	Cylinder Stroke (mm)	Overall Frame Width (mm)	Width Between Cylinders (mm)	Overall Height (mm)	Overall Length (mm)	Wt (kg)
Single	22	125	370	175	325	920	58

ORDERING INFORMATION

Model No.	Rail Capacity (kg/m)
TSA365/2	47, 50, 53 & 60
TSA365/3	41
TSA365/4	68





RAIL WELD SHEARS (MADE IN UK)

MODEL NO. TCRSS&S

This ultra-lightweight hydraulic rail shear is designed for the removal of excess material after the procedure of Thermit rail welding of two rail sections. It leaves a sufficient amount of material for final grinding. The modern design of this unit uses two x 15 tonne (30 tonne in total) high pressure spring return cylinders which operate at up to 700Bar. The unit is supplied with a cutting blade set suitable for 53/60/68kg rail profile.

The unit consists of three major assemblies: frame with rail clamps, hydraulic cylinder group with blade set & choice of hand, electric, battery, air or petrol pump (sold separately).



OPTIONAL POWER OPTIONS



3m High Pressure 10,000PSI Hydraulic Hose with Couplers

SF

HPS-0603DR



Hand Pump High Pressure Hydraulic 10,000PSI

DURAPAC

P-2200



Electric 230VAC Pump High Pressure 10,000PSI with Hand Control (Adv/Hold/Ret)

DAIA

DSP-120



Petrol Pump High Pressure 10,000PSI with Roll Frame

DURAPAC

PPM2014

Note: The hydraulic cylinder group weighs 35kg and has a lifting handle (for ease of handling) to remove or replace the group. It simply drops into position.

FEATURES

- Easy & effortless
- Lightweight at 63kg
- Ideal for switches and crossing
- Cutting blades included (53/60kg)

SPECIFICATIONS

Model No.	Operating Pressure (Bar)	Rail Capacity* (kg)	Weights (kg)			Weight (kg)
			Frame with Rail Clamps	Hydraulic Cylinder Group with Blade Set	Pump Set	
TCRSS&S	700	53 & 60	28	35	**	63

* Up to 68kg rail available upon request

** Refer to pages 106–108 for available pump options

REPLACEMENT PARTS

Replacement Blades Model No.

TCRSS-BLADE

Approved by British Rail (Cert. No. PA05/3762)





DIESEL RAIL PROFILE GRINDER (MADE IN ITALY)

MODEL NO. MPR4000D



FEATURES

- Powerful diesel engine
- 180° range of motion
- Ergonomically Designed for Easy Operation
- Protective safety guards
- Kick stand to keep unit upright when not on rail
- Tubular frame protects fuel tank
- Engine protection frame for safe transportation to and from site

Equipped with a powerful 3.5kW Yanmar Diesel 4 Stroke engine, it is capable of 4,500 RPM. It offers 180° range of motion without engine shut down. The handlebar allows the operator grinding of the upper part of the rail head or of the side of the rail head by tilting the machine and always remaining in the correct position (having full control while doing so). This smooths the inside and outside of the rail. The maximum inclination is reached when the pin makes contact with the structure of the machine. The guarded area of the grindstone ensures operator safety.

SPECIFICATIONS

Model No.	MPR4000D
Engine	Yanmar Diesel 4 Stroke
Engine (kW)	3.5
Speed Setting (RPM)	3,600
Rotation Speed of Grindstone (RPM)	4,500
Fuel Capacity (L)	2.0 (Steel tank)
Cooling	Air
Dimensions (mm) LxWxH	1000 x 650 x 950
Weight (kg)	71



RAIL PROFILE GRINDING CUP WHEELS

MODEL NO. AZ14S5B

- Suits most Rail Profile Grinders
- 4 x M8 Brass Nut Inserts
- Complies to ANSI safety standard B7.1



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

PETROL PORTABLE GRINDER

MODEL NO. 910085



Grinding Wheel



Bull Nose

FEATURES

- One tool - Two attachments - Many uses – Versatile
- Easy Handling
- Protection from Damage

DETAILS

- This grinder comes equipped with 2 grinding wheels.
- The 152.4mm (6") grinding wheel is used for grinding the rail web in signal applications, cleaning up rail overflow, de-burring rail ends and removing excess material from rail welds.
- The bull nose stone is used for chamfering holes in newly drilled rail to prevent the risk of rail cracking caused by stress points. A drilled hole can be chamfered in less than 10 seconds.
- Weighing only 6.8kg the light weight ergonomic design helps reduce operator fatigue.
- Skid plate protects engine and fuel tank from damage and ensures proper storage. Sturdy roll bar protects machine components.
- Supplied with bull nose and standard grinding wheel.

Model No.	Engine	Engine Displacement (cc)	Fuel Capacity (L)	Fuel Mixture	Unit Weight (kg)
910085	Tanaka 2-Stroke	27 cc	0.5	25:1	6.8

HYDRAULIC WEB GRINDER (MADE IN USA)



FEATURES

- Light weight tube frame with no cable controls for dependable operation
- Adjustable handle of operation at the desired height for comfortable and ergonomic use
- Outfitted with roller bearings for smooth movement along the rail
- Hoses directed away from work area for less possibility of damage
- Arm guides prevent grinder from coming off the rail
- Shaft lock makes stone removal easier

SPECIFICATIONS

Model No		GW-10-89-O
RPM		3,300-3,700
Hydraulic System		Open Centre
Flow (lpm)		40
Pressure	Bar@lpm	140 @ 40.00
	PSI@gpm	2,000 @ 10.00
Length (cm)		119.3
Width (cm)		73.6
Height (cm)		68.5(min) -96.5(max)
Weight (kg)		15.0



Refer pages 110–111 for suitable Low Pressure Pumps (40L/min)



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LOCATIONS
AUSTRALIA
WIDE

SF01

Mini

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.

TECHNICAL

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



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 106 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



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)

REFER NEXT
PAGE FOR
SF16-32
CONDUIT
THREADER
KIT



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

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



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 (MADE IN JAPAN)

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)
SF16-32	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



DIGITAL, ELECTRIC & MANUAL PIPE BENDERS (MADE IN ITALY)

CBC pipe bending machines are of high quality. Specialised Force stock units and carry many accessories and parts throughout Australia.

No Mandrel										
Pipe Type	9200121.5 (UNI42A) DIGITAL		9200150.5 (UNI42A) ELECTRIC		9200005.1 (UNI42) MANUAL		9200345.5 (UNI60A) DIGITAL		9200350.4 (UNI60A) ELECTRIC	
	Ø mm	Thick mm	Ø mm	Thick mm	Ø mm	Thick mm	Ø mm	Thick mm	Ø mm	Thick mm
Hard & Soft Cu, Annealed Brass	42	1.5	42	1.5	42	1.5	54	2	54	2
Steel Conduit	40	1.5	40	1.5	40	1.5	50	1.5	50	1.5
S/S AISI 304/316	30	2.0	30	2.0	30	2.0	35	3	35	3
Hydraulic Steel ST. 35.4	42	3.0	42	3.0	42	3.0	48	4	48	4
Furniture	42	3.0	42	2.0	42	2.0	48	3	48	3
FE Boiler	42	3.0	42	3.0	42	3.0	48	3	48	3
Aluminium	42	3.0	42	3.0	42	3.0	54	3	54	3
Gas	31.75 (1-1/4")	Std	31.75 (1- 1/4")	Std	31.75 (1-1/4")	Std	38.1 (1-1/2")	Std	38.1 (1-1/2")	Std
Double Coated Al Pipe	50	Std	50	Std	50	Std	63	Std	63	Std
Standard Bending Radius	R3D & R4D Centre Line Radius									



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9200121.5 (UNI42A)	9200150.5 (UNI42A)	9200005.1 (UNI42)
DIGITAL (230V 50Hz)	ELECTRIC (230V 50Hz)	MANUAL
DESCRIPTION		
UNI 42, electric, an accurate and powerful bending machine able to bend large diameters as well as thin and delicate pipes with optimum and constant bending radius and without any pipe deformation.	UNI 42, electric, an accurate and powerful bending machine able to bend large diameters as well as thin and delicate pipes with optimum and constant bending radius and without any pipe deformation.	UNI 42 manual, an accurate and powerful pipe bending machine able to bend large pipe diameters with optimum and constant bending radius and without any pipe's deformation.
TECHNICAL		
<ul style="list-style-type: none"> - Aluminium body - Motor HP 0,75 230V 50 HZ 2800 RPM - Digital control panel with microprocessor for programming the angle of bend. Capable of storing 9 bending with 9 bend per program. - Low tension electronic schedule (24V) - Electrobrake - Automatic return to stop 	<ul style="list-style-type: none"> - Aluminium body - Motor HP 0,75 230V 50 HZ 2800 RPM - Low tension electronic schedule (24V) - Bending angle regulation - Electrobrake - Automatic return to stop 	<ul style="list-style-type: none"> - Aluminium body - Tempered steel gears on ball bearings - Maximum bending angle 180°
DIMENSIONS (mm)		
520 L x 170 W x 350 H	520 L x 170 W x 350 H	400 L x 200 W x 250 H
WEIGHT (kg)		
35	35	18



DIGITAL & ELECTRIC PIPE & TUBE BENDERS (MADE IN ITALY)



9200345.5 (UNI60A)

DIGITAL (230V 50Hz)

9200350.4 (UNI60A)

ELECTRIC (230V 50Hz)

DESCRIPTION

UNI 60 digital, an accurate and powerful bending machine able to bend large diameters as well as thin and delicate pipes with optimum and constant bending radius and without any pipe deformation.

TECHINICAL

- Aluminium body
- Motor HP 1,30 230V 50 HZ (different voltages on request) 2800 RPM
- Digital control panel with microprocessor for programming the angle of bend. Capable of storing 9 bending with 9 bend per program
- Low tension electronic schedule (24V)
- Bending angle regulation
- Electrobrake
- Automatic return to stop

- Aluminium body
- Motor HP 1,30 230V 50 HZ (different voltages on request) 2800 RPM
- Low tension electronic schedule (24V)
- Bending angle regulation
- Electrobrake
- Automatic return to stop

**LARGE RANGE OF
FORMERS AVAILABLE.
PLEASE VISIT OUR
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INFORMATION**

DIMENSIONS (mm) without stand

520 L x 210 W x 410 H

520 L x 210 W x 410 H

WEIGHT (kg)

60

60

ACCESSORIES



Folding stand.

For UNI 42 (Model No. 000592.1).

For UNI 60 (Model No. 000593.1).



Universal base, necessary for bending with moving plane of bend for **UNI 42** and **UNI 60** (Model No. 000970)



Formers in aluminium or cast-iron complete with ring for bending with standard radius (3 or 4 D centre line radius).



Moving plane of bend complete with plan regulator for **UNI42** & **UNI60**



UNI 42 digital, complete with moving plane of bend and universal base.



Guide is used for bending thin-wall pipes with formers type A-B-C-E-L-H. Rollers used for bending thick wall pipes

CONTACT US FOR MORE DETAILS & SPECIFICATIONS ON FORMERS & GUIDES OR VISIT OUR WEBSITE

PB SERIES HYDRAULIC PIPE BENDERS (MADE IN JAPAN)

FEATURES

The PB-10N & PB-15N Benders were designed to bend various sizes and various thickness of steel pipes without wrinkles.

An aluminium alloy frame makes this bender lighter so that it can be easily carried to the job site.

Bending shoes are designed to bend gas pipe or steel electrical conduit - listed in the charts below. For use with any 700-bar hydraulic single-acting high-pressure pump. **Refer Section "C" of the Electrical catalogue.**

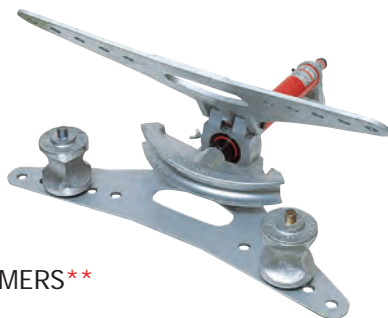
PLEASE NOTE: Hydraulic Pump & Bending shoes are sold separately - unless otherwise indicated

SUITABLE CONDUITS & PIPES

Model No.	PB-10N	PB-15N
Thin steel conduit (A)	A15 (5/8", 16mm) to A51 (2", 50mm) to 90° in one shot	A15 (5/8", 16mm) to A51 (2", 50mm) to 90° in one shot
Gas Pipe (SGP)	SGP15 (1/2", 21.3mm) to SGP50 (2", 60.3mm) to 90° in one shot	SGP15 (1/2", 21.3mm) to SGP100 (4", 114.3mm)

SPECIFICATIONS

Model No.	PB-10N	PB-15N
Capacity	15-50mm (1/2 - 2") Nominal Bore Pipe	15-100mm (1/2 - 4") Nominal Bore Pipe
Oil volume required	400cc	595cc
Output force	108kN	162kN
Ram stroke	250mm	250mm
Size	780mm Wide	900mm Wide
Weight	18.6kg (W/O PIVOT SHOES and BENDER SHOE)	28.8kg (W/O PIVOT SHOES and BENDER SHOE)
INCLUDES:	Frame, Cylinder, Pivot shoes (2 pieces) and Angle gauge	Frame, Cylinder, Pivot shoes (2 pieces) and Angle gauge

HINGED TOP PLATE

MODEL NO.

PB-10N
PB-10N INC FORMERS**

HINGED TOP PLATE

MODEL NO.

PB-15N

BENDING SHOES STEEL CONDUIT

Model No.	(mm) OD	Suits Model
A15	15.9	PB10N/15N
B16	21.0	PB10N/15N
A25	25.4	PB10N/15N
A31	31.8	PB10N/15N
B36	41.9	PB10N/15N
A51	50.8	PB10N/15N
*A63	63.5	PB15N
*A75	76.2	PB15N

* Segmented bending required to produce a 90° bend

BENDING SHOES GAS PIPE

Model No.	(mm) OD	Suits Model
**SGP-15 - 1/2" GAS	21.3	PB10N/15N
**SGP-20 - 3/4" GAS	26.9	PB10N/15N
**SGP-25 - 1" GAS	33.7	PB10N/15N
**SGP-32 - 1 1/4" GAS	42.2	PB10N/15N
**SGP-40 - 1 1/2" GAS	48.3	PB10N/15N
**SGP-50 - 2" GAS	60.3	PB10N/15N
*SGP-65 - 2 1/2" GAS	76.3	PB15N
*SGP-80 - 3" GAS	89.1	PB15N
*SGP-90 - 3 1/2" GAS	101.6	PB15N
*SGP-100 - 4" GAS	114.3	PB15N


**MODEL No. SL-ND/CB BATTERY
HYDRAULIC CABLE BENDER (MADE IN JAPAN)**



BATTERY TOOL FEATURES

- New Pull-Pin Design for Quick Jaw Change
- Bright White, LED Lights for Working in Low Light Conditions
- Audible Bypass when Predetermined pressure is Achieved
- Tested Up To 75kV

SPECIFICATIONS

Weight	6.55 kg
Size	178L x 356W x 556H mm
Bending capacity	25.4mm OD
Head attachment	

The SL-ND/CB is the first of its kind in the electrical utility industry in battery powered cable bending. The SL-ND/CB utilizes the pull-pin design, allowing technicians to change jaws from compression, to cutting, to cable bending. The SL-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 SL-ND/CB has several different settings, so the tool can be used on conductor in a variety of sizes. Featuring a low profile, the SL-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.

NOTE: Contact cable manufacturer for specified cable bending radii and cable bending requirements.

Model No.	Description
SL-ND/CB(BB)	Tool, Bending Head Attachment, 2 Li-Ion Batteries, Charger (AC/DC) & Case
SL-ND(BB)	Tool, 2 Li-Ion Batteries & Case Only (No heads)
SL-ND	Tool & Case Only (No battery or heads)
SL-CB	Bending Head Attachment Only
BP-80LI	Lithium-Ion Battery 14.4VDC Only
CH100	Charger AC/DC (230VAC/12-24VDC)



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Refer to SF Electrical Catalogue for Crimping Heads and Cutting Head

BUS BAR EQUIPMENT



HYDRAULIC BUS BAR CUTTER



Model No.	BBC-125	BBC-150
Working Pressure (Bar)	700	700
Output (Tonnes)	10	35
Weight (kg)	16	35
Bus Bar Capacity Cu & Al (mm)	125 x 12	150 x 15

HYDRAULIC BUS BAR BENDER



Model No.	B-200
Output (Tonnes)	11
Weight (kg)	20
Bus Bar Capacity (mm)	200 x 10 Cu 200 x 16 Al
Former Bending Radius (mm)	8 + 12 Cu 30 + 48 Al
Maximum Bending Angle	90° (Optional 90° Bending Block and 12mm former for bending repeat 90° bends is also available – Model No. B200/90)

HYDRAULIC BUS BAR BENDER - TRIS WORK UNIT



Model No.	9046
Output (Tonnes)	30
Pressure (Bar)	700
Weight (kg)	192
Bus Bar Capacity (mm)	Punches bars up to 15 Cuts bars up to 160x15 Bends bars up to 200x20
Dimensions (mm)	1200 L x 700 W x 520 H
Adjustable Stroke (mm)	65
Supplied with	1m Rule, Set of Adaptors

Contact SF for more detail

ASSOCIATED EQUIPMENT



DSP-120 230V ELECTRIC HYDRAULIC PUMP



SH-70B HYDRAULIC BUS BAR PUNCH

Refer page 108 for more detail (also refer pages
106–107 for other pumps)

Refer to page 275

TCS-5 SERIES CONTACT WIRE STRAIGHTENER

The TCS-5 Series are mechanical straightening devices for profiled contact wires. They allow the operator to straighten common sizes of railway contact wire (Trolley Wire) from 85mm² to 161mm².



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



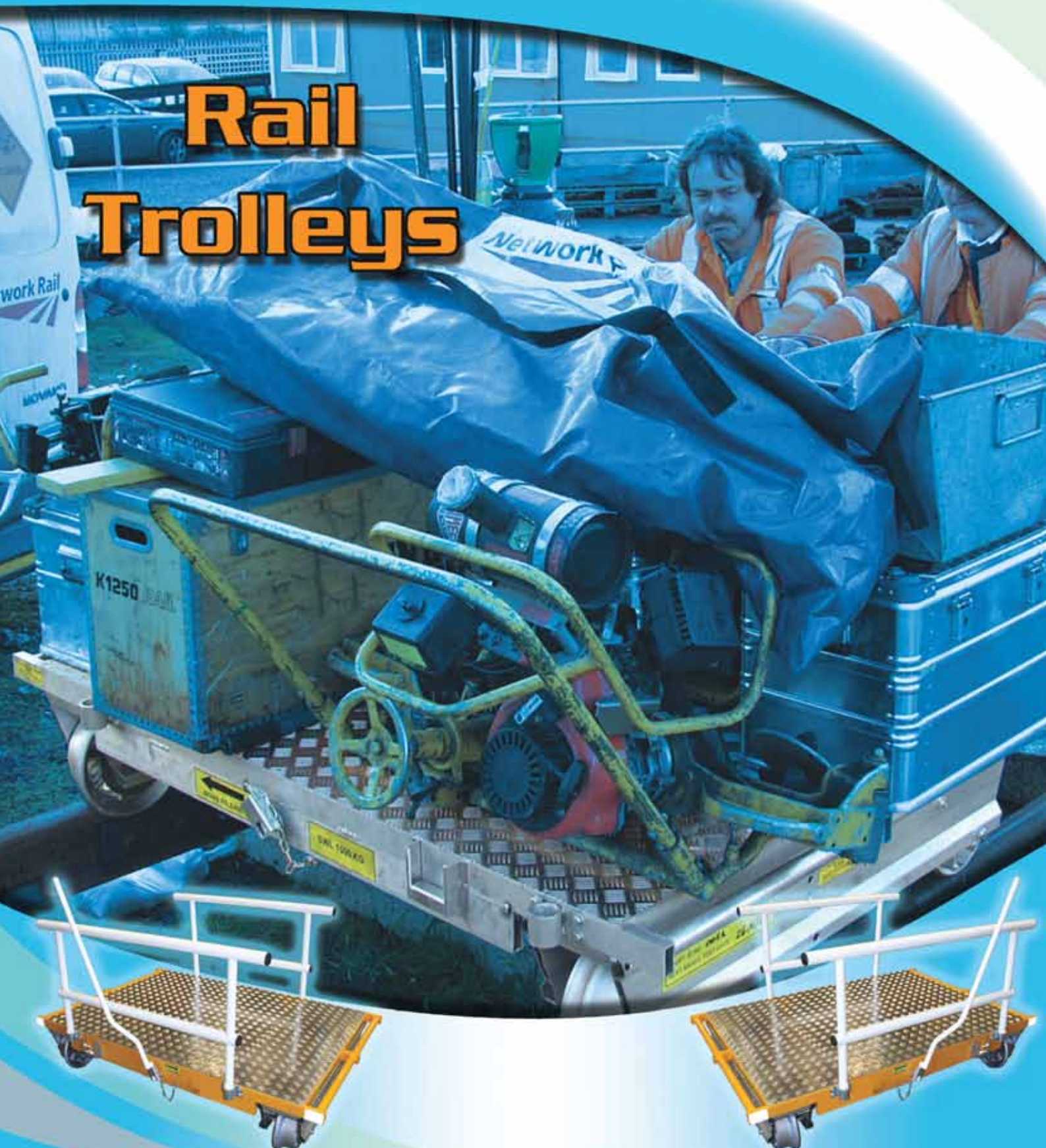
SPECIFICATIONS

Model No.	TCS-5	TCS-5-161
Max. Alignment Curvature	30°	30°
Straightening Capacity	85-150mm ²	85-161mm ²
Dimensions	430 x 245 x 150mm	430 x 245 x 150mm
Weight	6.4kg	7.0kg



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Rail Trolleys



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TROLLEYS

78–81

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RAIL TROLLEY INSULATED (MADE IN UK)

MODEL NO. LT SERIES

The Trakrat is a new and unique range of manually operated rail maintenance trolleys. With powerful disc brakes to ensure failsafe operation whilst giving the operator far greater control. Smoother braking is achieved with far less brake handle effort.

The modular system allows for easier handling and logistics and makes maintenance and testing much simpler. A range of deck formats can be matched to the universal, interchangeable wheel bogeys to provide the ideal trolley for the job. Each Standard Unit contains: 1 x DECK, 2 x BOGIES, 1 x PUSH BAR & 1 x BRAKE HANDLE.

FEATURES

- Models available for Standard 1,435mm, Narrow 1,067mm and Broad 1,600mm Gauge track
- Safe Powerful Disc Braking
- All models listed here are with insulated bogies
- Solid Low Maintenance Pushrod Operation
- Robust Lightweight Aluminium Construction
- Modular For Ease Of Handling & Logistics
- Interchangeable Bogey & Deck Combinations
- Complies with: GM/RT 1310 BSEN 13977:2005(E) European Machinery Directive (CE)

Model No. LT1500AI

All aluminium deck construction is lightweight, strong and heat resistant. The larger deck provides greater flexibility yet is still easy to handle. All Aluminium deck makes it the ideal welders trolley and offers significant tare weight saving



LINKING TRAKRAT

You may link a maximum of 2 trakrat® Link-Trolleys but you may not link to any other make or model. Place 2 trakrat® Link-Trolleys in tandem on the track, ensuring that the brake release direction and arrows point in the same direction on each unit. Gently bring them together until the 'brake pivot plates' make contact. Slide the 'pivot connecting cap' over the two 'brake pivot plates' and double check that they are locked together. Note that you can link an LT 1250 A with an LT 1500 A. Activate the brake pivot handle and ensure that all brakes are releasing properly.

trakrat®


Gauges:

Narrow is 1,067mm / 3'6",
 Standard is 1,435mm / 4'8-1/2" and
 Broad is 1,600mm / 5'3"



RAIL TROLLEY INSULATED (MADE IN UK)

SPECIFICATIONS

Gauges:

Narrow is 1,067mm / 3'6",
Standard is 1,435mm / 4'8-1/2" and
Broad is 1,600mm / 5'3"



trakrat®



Shown with
Optional Accessory

Model No.	Deck Length (mm)	Gauge Sizes	Deck Width (mm)	Deck Height from Rail Head	WLL (kg)	Bogey Weight (kg)	Deck Weight (kg)	Overall Tare Weight (kg)
LT1250ANI	750	Narrow	1,800	330	1,250	19	36	76
LT1250AI	750	Standard	1,800	330	1,250	19	36	76
LT1250ABI	750	Broad	1,800	330	1,250	19	36	76
LT1500ANI	1,150	Narrow	1,800	330	1,500	24	49	97
LT1500AI	1,150	Standard	1,800	330	1,500	24	49	97
LT1500ABI	1,150	Broad	1,800	330	1,500	24	49	97

ORDERING INFORMATION

Complete Trolley Model No.		LT1250ANI	LT1250AI	LT1250ABI	LT1500ANI	LT1500AI	LT1250ABI
SWL (kg)		1,250	1,250	1,250	1,500	1,500	1,500
Track Gauge		Narrow	Standard	Broad	Narrow	Standard	Broad
Bogies Insulated		YES	YES	YES	YES	YES	YES
Standard Components	BOGIES (2 Req)	BY1250I	BY1250I	BY1250I	BY1500I	BY1500I	BY1500I
	DECK	DK1250AN	DK120AS	DK1250AB	DK1500AN	DK1500AS	DK1500AB
	PUSH HANDLE	SRAI550	SRAI550	SRAI550	SRAI550	SRAI550	SRAI550
	BRAKE HANDLE	SRAI540	SRAI540	SRAI540	SRAI542	SRAI542	SRAI542
Optional Equipment	EDGING 50mm	SRAI808	SRAI800	SRAI805	SRAI818	SRAI810	SRAI815
	GAS BOTTLE BRACE SET (2 Supplied) (Note 1)	N/A	N/A	N/A	SRAI900	SRAI900	SRAI900
	TOOL TRAY BRACE (Single piece)	N/A	N/A	N/A	SRAI920	SRAI920	SRAI920
	TOOL TRAY (Note 2)	N/A	N/A	N/A	SRAI910	SRAI910	SRAI910
	TOOL TRAY SET (Note 3)	N/A	N/A	N/A	SRAI941	SRAI941	SRAI941
	GAS BOTTLE SET (Note 7)	N/A	N/A	N/A	SRAI950	SRAI950	SRAI950
	GAS BOTTLE CRADLE	N/A	N/A	N/A	GBSC3	GBSC3	GBSC3

- To use the Gas Bottle Brace you need a second Push Handle
- To use the Tool Tray you need a second Push Handle and either: (a) 1 pair of Gas Bottle Braces & 1 Tool Tray Brace **OR** (b) 2 Tool Tray Braces
- Tool Tray set comes with 1 Tool Tray Brace and 1 Tool Tray. To use this you need a second Push Handle and either: (a) 1 pair Gas Bottle Braces **OR** (b) 1 Tool Tray Brace.
- Gas Bottle Set comes with 2 Gas Bottle Braces and 1 Push Handle.

BOTH MODELS FEATURE

Deck Construction	Braking	Wheel	Specification	Electrical Visibility	Linkability	Visibility LED Light Pockets	Flood Lighting Mast Brackets
Aluminium*	Failsafe twin steel discs actuated by steel pushrods	Aluminium 200mm	–	Yes	Linkable up to two trolleys**	Yes	Yes

** Trakrat trolleys will not link with any other manufacturer

ACCESSORIES & SPARE PARTS

Accessories shown below are not supplied as standard, please contact us for more information.



Model No.	Description	Suits Model No.
SRAI550	Trolley Push Bar	ALL
SRAI800	Edging 50mm	LT1250AI (Std)
SRAI805	Edging 50mm	LT1250ABI (Broad)
SRAI808	Edging 50mm	LT1250ANI (Narrow)
SRAI810	Edging 50mm	LT1500AI (Std)
SRAI815	Edging 50mm	LT1500ABI (Broad)
SRAI818	Edging 50mm	LT1500ANI (Narrow)
SRAI900	Trakrat Gas Bottle Brace (2 Required)	LT1500 Series
GBSC3	Gas Bottle Cradle (Yellow)	LT1500 Series
SRAI910	Trakrat Tool Tray	VARIOUS
SRAI920	Trakrat Tool Tray Brace (2 Required)	VARIOUS
SRAI941	Trakrat Tray Set (2 x Brace & 1 x Tray)	VARIOUS
SRAI950	Trakrat Gas Bottle Brace Set	VARIOUS
SRAI999	Trakrat Brake Test Tool	VARIOUS



DURAPAC

CATALOGUE

- Specialty Lifting System
- Cylinders
- Hand Pumps
- Electric Hydraulic Power Units
- Air Hydraulic Power Units
- Diesel Power Units
- Hydrostatic Power Units
- System Accessories
- Bolting Solutions
- Pullers
- Bearing Separators
- Hydraulic Cutters
- Maintenance & Repair Kits
- Hydraulic Presses
- Hydraulic Jacks
- Power Lift Air Bags



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HYDRAULIC TOOLS &
SPECIALISED EQUIPMENT
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Hand Tools



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HAND TOOLS

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RAILWAY BARS

RAILWAY BARS - MODEL NO. VARIOUS

- Specialty bars for various rail applications



SPECIFICATIONS

Model No.	Number Ref #	Description	Length (mm)	Shaft Type	Wt (kg)
1120218	1	Standard Pigs Foot	240	-	3.2
LS6152	2	Lock Spike Extractor	200	-	2.3
A17B	3	Rail Lining Bar (also suit Simplex mechanical track jacks)	1,676	Round Tapered	11.8
1120221	4	Spike Pulling Bar	1,650	Round	10.0
1120225	5	Rail Turning Bar 47kg	1,510	Round	7.0
1120149SF	5	Rail Turning Bar 60kg/53kg	1,540	Round	8.0
4123-04	6	Claw Bar	1,524	Round Tapered	12.3
5PB165030RLB	7	Rail Levelling Bar/Nipping Bar	1,650	Hexagon (30mm)	11.0
5CB150030	8	Crowbar	1,500	Hexagon (30mm)	3.9
5PB165030	9	Pinch Bar	1,650	Hexagon (30mm)	4.5
4123-13	10	Rail Fork	1,330	-	5.9



WEDGES – FOX & DRIFTS - BARRELL (MADE IN AUSTRALIA)

BARRELL DRIFTS



MODEL NO. 5BD SERIES

- Used for aligning holes in construction
- Used for expanding holes in mild steel
- Forged from tough alloy steel
- Taper is forged, not turned, for finer grain, giving greater tensile strength
- Will not score edge when driven hard

SPECIFICATIONS

Model No.	Size (mm)	Point (mm)	OAL (mm)	Pack Qty	Wt (kg)
5BD12	12	5.5	160	3	0.12
5BD14	14	6.5	160	3	0.16
5BD16	16	7.5	160	3	0.17
5BD18	18	8.5	160	3	0.25
5BD19	19	9.0	160	3	0.28
5BD20	20	9.5	180	3	0.35
5BD22	22	10.5	180	3	0.50
5BD24	24	11.5	180	3	0.52
5BD25	25	12.0	180	3	0.54
5BD27	27	13.0	180	3	0.63
5BD30	30	14.5	200	3	0.80
5BD33	33	16.0	200	3	1.04

FOX WEDGES

MODEL NO. 5FW & 7FW SERIES

- Used for splitting mating surfaces
- Also used for packing rail, machinery and structures level before fixing
- Forged & ground blade with fine edge for easy entry
- (7FWSS10025 Only) Forged from stainless steel for greater hardness and non-magnetic properties, also good for marine environments



SPECIFICATIONS

Model No.	Size (mm) LxWxThick	Material	Pack Qty	Min Buy Qty	Wt (kg)
5FW07538	75x38x12	-	25	-	0.16
5FW10025	100x25x8	-	25	-	0.10
5FW17550*	175x50x12	-	10	-	0.46
7FW27050	270x50x25	-	10	30	1.83
7FWSS10025	100x25x8	Stainless Steel	25	25	0.10

*May be manufactured to order and may have a min. order qty (can include multiple sizes) and lead time.



HAMMERS – COPPER, SLEDGE, SPIKING & WELDING (MADE IN AUSTRALIA)

These products must be maintained in accordance with Australian standard AS3797:1991.

MODEL NO. 5HSPSRH08 SPIKING HAMMER

Model No.	Handle Length (mm)	Pack Qty	Min Buy Qty	Wt (lbs)	Size / Wt (kg)
5HSPSRH08	900	4	2	8	5.32



- Used in rail industry for spike hammering
- For breaking up rocks, concrete & driving packing
- Steel reinforced handle
- Head forged from high tensile steel with hardened and tempered faces
- Different sized faces each end
- A thick cored fibreglass handle with 2 steel rods full length welded to head
- Non-slip oil resistant rubberised coating, with large sweep at base to prevent loss of grip
- Excellent balance for comfort when swinging and striking

MODEL NO. 5HCH SERIES COPPER HAMMER

Model No.	Pack Qty	Min Buy Qty	Wt (lbs)	Size / Wt (kg)
5HCH01	4	-	1	0.50
5HCH02	4	-	2	1.14
5HCH03	4	-	3	1.68
5HCH04	4	-	4	2.13
7HCH07	4	2	7	3.74
7HCH14	2	2	14	7.40



- Non-sparking and non-marking
- Forged from pure electrolytic copper
- No oxygen so will not chip or break
- Dead blow - doesn't bounce
- Australian spotted gum hardwood handle, oiled for long life and user comfort
- Handle is fitted to head with a glued wooden and steel wedge assembly
- Extra thick shoulder to prevent breakages from mis-hits

BLACKSMITHS TONGS – FLAT NOSE

MODEL NO. 5BTF SERIES

Model No.	Length (mm)	Weight (kg)
5BTF350	350	1.06
5BTF450	450	1.37
5BTF600	600	1.42



FEATURES

- Used for holding hot work (rail welding), dog spikes for driving
- Designed for best use with flat material.
- Forged from tough carbon manganese steel.
- Reins will take heavy pressure when gripping without bending.
- Tapered break for easier pick up.

SLEDGE HAMMERS, WELDING HAMMERS & COLD SETS (MADE IN AUSTRALIA)

WELDING HAMMER / CHIPPING HAMMER

MODEL NO. 5WH SERIES

- Used for chipping off slag and spatter around welds
- Also used as geologists' or miners' tool
- Head forged from chrome alloy steel and hardened and tempered for maximum toughness
- Ground and sharpened vertical chisel and diamond point
- Excellent balance with hardened ends that do not flatten when chipping
- Correctly heat treated to best suit product application

SPECIFICATIONS

Model No.	Pack Qty	OAL/ Head Length (mm)	Wt (lbs)	Size / Wt (kg)
5WHRG	20	260 / 170	1.14	0.52
5WHSP	20	270 / 170	0.99	0.45



SLEDGE HAMMER – FIBREGLASS HANDLE & RUBBER GRIP

MODEL NO. 5HSH SERIES

- Well balanced, versatile sledge hammer for rail, mining, building and construction industries
- Forged from tough high-tensile steel with hardened and tempered faces
- Thick handle with large sweep at base to prevent loss of grip
- Comfortable thick rubber grip for better protection from shock and vibration
- This product must be maintained in accordance with Australian Standard 3797:1991

SPECIFICATIONS

Model No.	Pack Qty	Min Buy Qty	Handle Length (mm)	Wt (lbs)	Wt
5HDFRH04400	2	2	400	4	2.32
5HSFRH07	4	4	800	7	4.48
5HSFRH10	4	4	900	10	5.55
5HSFRH14	2	2	900	14	7.89



COLD SETS

MODEL NO. 7SCSH225

- Australian made
- Used For Striking With Sledge Hammer
- Forged From Tough High Tensile Carbon Manganese Steel
- Hardened & Tempered, Blade Will Not Shatter When Struck Hard
- Head is left Softer to Mushroom and not chip for Safety

SPECIFICATIONS

Model No.	LxWxH (mm)	Width Chisel (mm)	Length Chisel (mm)	Pack Qty	Min Buy Qty	Size / Wt (kg)
7SCSH225	600x300x80	42	225	1	4	1.75



CYCLONE TOOLS (MADE IN AUSTRALIA)

MODEL NO. VARIOUS



603457



603600



603792

636202
636240

630866



630873



634734



634956



635298



634475

Model No.	Description	Pack Qty	Head Wt (kg)	OAL (mm)	Size / Wt (kg)
603457	2kg Polished Axe	6	2	795	2.75
603600	Axe Super Splitter	5	1.8	800	2.55
603792	Blocksplitter Cyclone Heavy Duty	5	2.5	885	3.68
636202	Nail Rake/Garden Rake	6	Teeth 14	1,570	1.35
636240	Nail Rake/Garden Rake	6	Teeth 16	1,570	1.43
630866	Mulch & Bark Fork 10 Tine	3	Width 405	1,155	3.17
630873	Stone Fork 10 Tine	3	Width 240	1,005	2.83
634734	Garden Mattock	4	1.6	900	2.20
634956	Road Pick	6	2.25	900	3.27
635298	Pelican Pick	2	-	860	2.00
634475	Mattock & Cutter End	6	2.25	900	3.27

CYCLONE TOOLS (MADE IN AUSTRALIA)



MODEL NO. VARIOUS



640001 640803 640858 641282 641336 641916
641985 642388 643521

Model No.	Description	Handle Type	Pack Qty	Width (mm)	OAL (mm)	Size / Wt (kg)
640001	Shovel Square Mouth Post Hole	Long	3	195	1,450	2.17
640803	Shovel Round Mouth	Dee	3	280	945	2.33
640858	Shovel Round Mouth Medium	Dee	3	285	960	2.47
641282	Shovel Round Mouth Small	Long	3	280	1,445	2.47
641336	Shovel Round Mouth Medium	Long	3	285	1,450	2.53
641916	Shovel Square Mouth Medium	Dee	3	265	970	2.53
641985	Shovel Square Mouth Short Large	Dee	3	275	980	2.63
642388	Shovel Square Mouth Medium	Long	3	265	1,470	2.77
643521	Shovel Square Mouth Concrete – All Steel	Dee	3	255	970	1.90

TRACK BOLT RATCHET WRENCH (MADE IN USA)

TRACK BOLT RATCHET WRENCH



MODEL NO. 26555

- Powerful leverage and ratchet convenience in one wrench.

SPECIFICATIONS

Model No.	Square Drive (mm/")	Handle Length (mm)	Wt (kg)
26555	25.4 / 1	800	5.0





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SPECIALISED EQUIPMENT
PTY. LTD.

Hydraulic Tools & Equipment



www.specialisedforce.com.au



HYDRAULIC TOOLS & EQUIPMENT

96–117

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POST DRIVER (MADE IN JAPAN)



FEATURES

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

SPECIFICATIONS

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



ROCK DRILLS

FEATURES

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

SPECIFICATIONS

(AIR COMPRESSOR CAPACITY 50-80L/min)

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



DH204 Standard Model



DH205 Anti-Vibration Handle Model

CONCRETE & ASPHALT SAW/CUTTER (MADE IN JAPAN)



FEATURES

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

SPECIFICATIONS

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



HYDRAULIC ROCK BREAKERS (MADE IN JAPAN)



BH051V

BH112V

BH161V

BH23K



FEATURES

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



SCAN & PLAY



Some models can source power from mini excavators

Model No.	BH051V	BH112V	BH161V	BH161VC	BH23K
Overall Length (mm)	428	566	660	660	702
Weight (kg)	8	13	19.3	23.5	26.8
Oil Flow (L/min)	20.5	15-20	18-22	18-22	20.5
Blow Per Minute (bpm)	2700	1450 (15L/min)	1650	1650	1500
Shank Size (Hex)	19 x 50mm	22 x 82mm	25 x 108mm	25 x 108mm	25 x 108

BREAKER BITS & DRIVERS

Image	Item & Details	Suits BH051V	Suits BH112V	Suits BH161V, BH161VC & BH23K
	Hex Shank (mm)	19x50	22x82	25x108
	Moil (Model No.)	13101300	22S0425	0002Z
	Length (mm)	300	470	400
	Moil (Model No.)	-	-	14601510
	Length (mm)	-	-	510
	Flat Chisel (Model No.)	13102300	14002465	14602465
	Length (mm)	300	420	465
	Flat Chisel (Model No.)	-	1720	0006Z
	Length (mm)	-	-	510
	Asphalt Cutter	711202	ZA-005S	0010Z
	Width (mm)	60	75	76
	Length (mm)	260	475	400
	Ground Rod Driver (Model No.)	-	B12783	B22783
	Shank Size (mm)	-	22 x 82	25 x 108
	Ground Rod Size (mm)	-	16.0	16.0
	Weight (kg)	-	2.1	2.2
	Spade Point	-	-	C-1004-01
	Hex Shank (mm)	-	-	25x108
	Length (mm)	-	-	400
	Spade WxL (mm)	-	-	140x180
	Tampor Plate	-	-	ZN-003C-1005
	Hex Shank (mm)	-	-	25x108
	Length (mm)	-	-	280
	Diameter (mm)	-	-	180
	Railroad Spike Driver	-	-	B41851
	Shank Size (mm)	-	-	25x108
	Weight (kg)	-	-	4.3

LONG REACH POLE CHAIN SAWS (MADE IN USA)

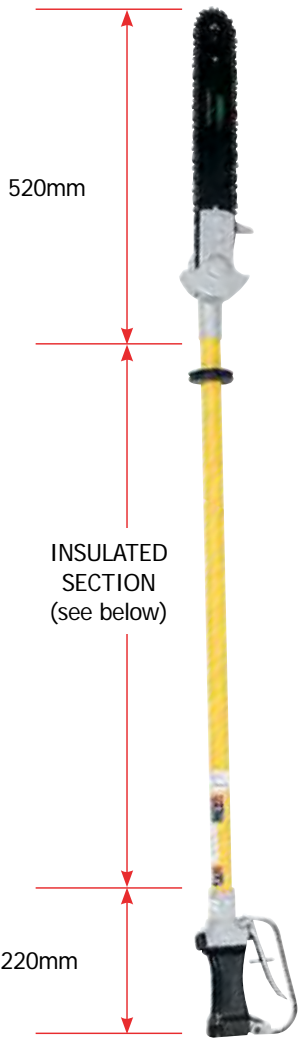
FEATURES

- 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"



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



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)

* 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**



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

* Other lengths made to order.

REFER TO SF ELECTRICAL CATALOGUE FOR HOSE BAG

HOSE - 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
HPS-06R"	Durapac	RED	¼	6.6	12.7	700	10,000	-40° to 100° 180g/m
HPS-06B"	Durapac	BLACK	¼	6.6	12.7	700	10,000	-40° to 100° 180g/m
HPS-06T"	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"								
HP8-403-B38NM-CCN*	Parker 3m	ORANGE	1/4	6.0	15.0	700	10,000	-40° to 100° 160gm
HP8-405-B38NM-CCN*	Parker 5m	ORANGE	1/4	6.0	15.0	700	10,000	-40° to 100° 160gm
B098	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	3050-3	3010-3
DUST CAP TO SUIT SCREW TYPE COUPLERS		3005-3	3009-3

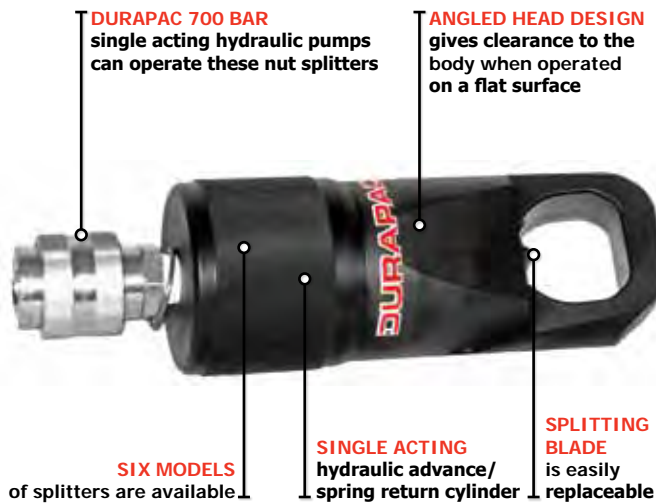
Refer to SF Electrical Catalogue for additional couplings

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.

FEATURES

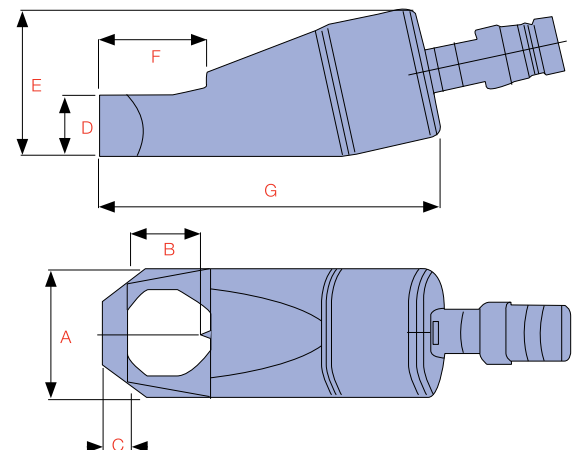


SPECIFICATIONS

Model No.	Bolt Range	Hex Nut Range (mm)	Capacity (ton)	Oil Capacity (cm3)	Dimensions (mm)			Weight (kg)	Spare Blade Model Number
					Length	Width	Height		
DNS-1319	M6-M12	10-19	5	13	170	40	48	1.2	DNS-1319-4
DNS-1924	M12-M16	19-24	10	21	191	54	62	2.0	DNS-1924-4
DNS-2432	M16-M22	24-32	15	58	222	64	72	3.0	DNS-2432-4
DNS-3241	M22-M27	32-41	20	88	244	75	88	4.4	DNS-3241-4
DNS-4150	M27-M33	41-50	35	153	288	94	105	8.2	DNS-4150-4
DNS-5060	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
DNS-1319	39.8	20.9	7.0	19.0	49.7	29.0	120.0
DNS-1924	53.8	25.3	10.0	25.0	62.2	40.0	146.0
DNS-2432	64.0	33.6	13.0	30.0	76.5	51.8	181.0
DNS-3241	77.0	42.7	16.0	36.0	87.3	64.9	205.0
DNS-4150	94.0	53.8	21.1	44.7	108.0	76.0	244.0
DNS-5060	106.0	60.8	24.3	54.3	125.3	92.0	289.0

DURAPAC
ENGINEERED FOR RELIABILITY



ROD CUTTER – DROPPER LEAD CUTTER (MADE IN JAPAN)

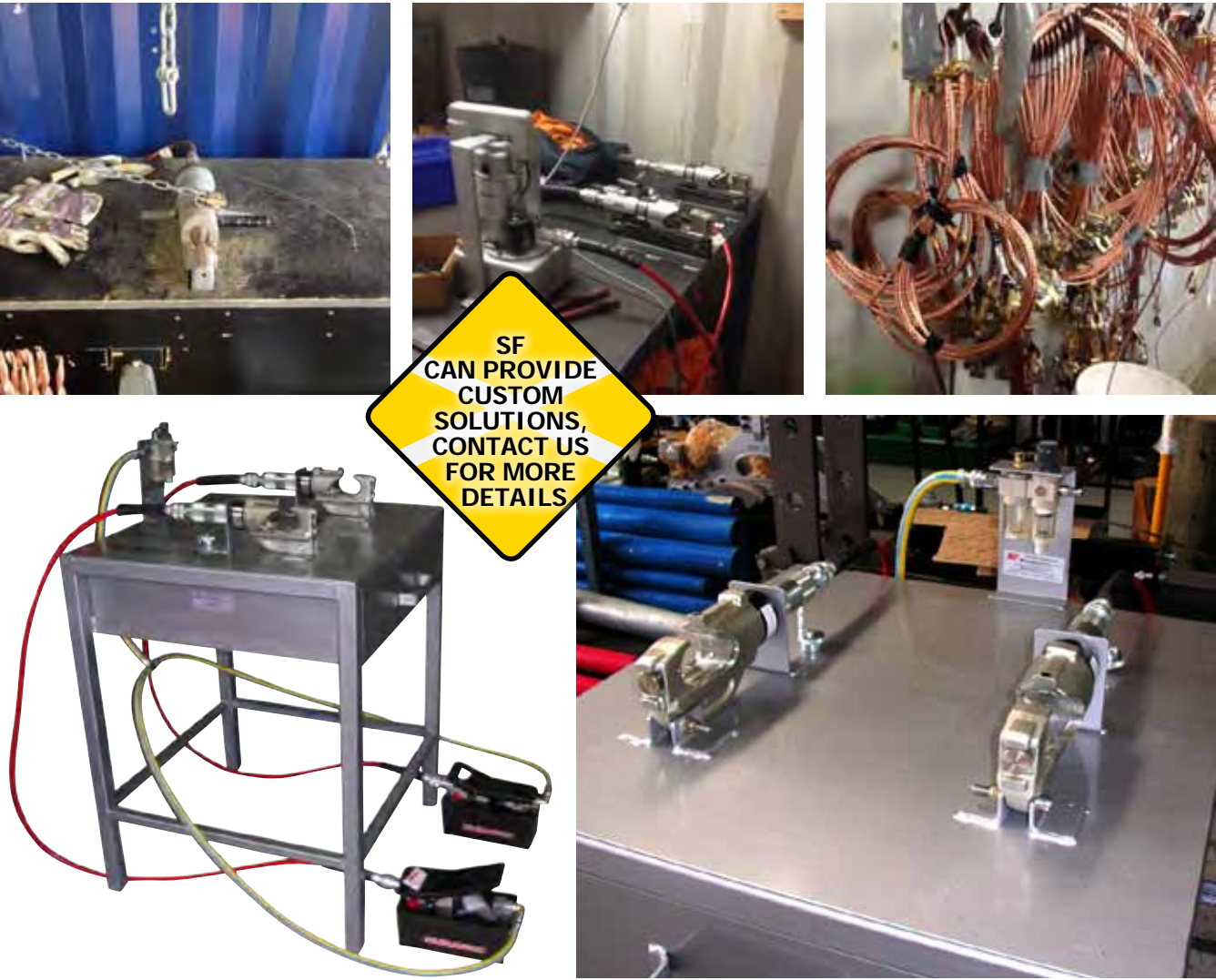
RIKEN

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/mm² {100kgf/mm²})	Dimensions (mm)		Oil Capacity (cm³)	Weight (kg)
			A	B		
RC20SW	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.



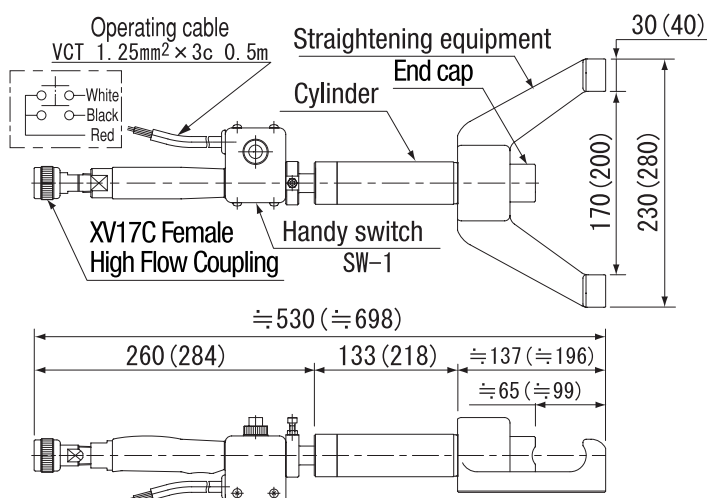
RS SERIES WIRE & ROD STRAIGHTENER AND BENDER, HYDRAULIC (MADE IN JAPAN)

RIKEN

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 ²)	Tensile Strength (1,000 N/mm ²)				
RS4SW	40	700	25 Ø	20 Ø	S04-70	R-403	R-402	5.0
RS10BSW	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



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)
PDM3054-RAIL	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.

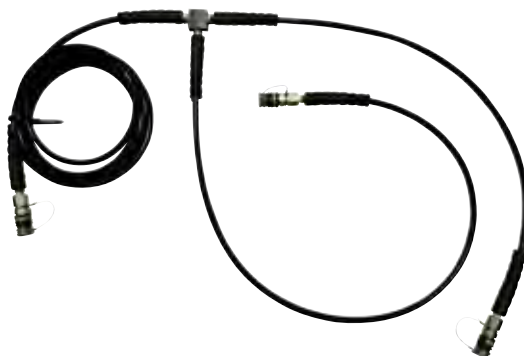
HYDRAULIC RAIL TENSOR HOSES – HIGH PRESSURE

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

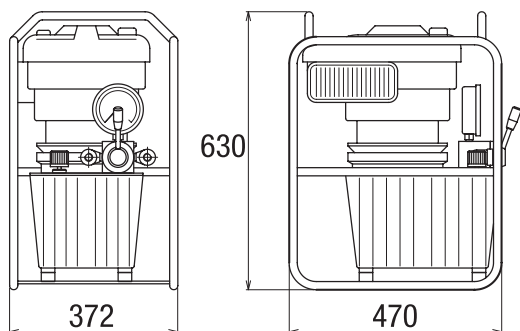
Model No.	Description	Coupler	Length (m)
0412-5M-GEI-SCREW-F	0412 GEISMAR HOSE SET FEMALE RP1A	Screw Parker	5
0412-5M-GEI-SCREW-M	0412 GEISMAR HOSE SET MALE RP1B	Screw Parker	5
0412-5M-GEI-SNAP-F	0412 HOSE SET FEMALE CEJN	CEJN Snap	5
0412-5M-GEI-SNAP-M	0412 HOSE SET MALE CEJN	CEJN Snap	5

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

MODEL NO. PPM2014 HYDRAULIC HIGH PRESSURE PETROL PUMP

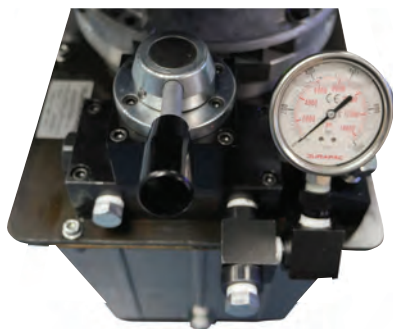
DURAPAC

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)
PPM2014	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



BATTERY HYDRAULIC PUMPS




IZUMI

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	BP114	CP700EC(BB)	REC-P1(BB)
Features	Lightweight Powerful & Fast Advanced Electronics Internal Battery	Lightweight Advanced Electronics	Durable & Robust Izumi Dual Battery
Details	Battery Save Mode : switches off after 10 minutes last cycle Dual Function Switch : dump or hold	Adjustable Retraction Mode: increases battery life	Large Hydraulic Tank: one litre capacity Heavy Duty Workhorse: steel tank and body
Pressure (bar)	700 (850)	700	700
Useable Oil (L)	0.75	0.75	1.00
Control	Corded Pendant 3.0m	Corded Pendant 1.5m	
Power	Internal 25.4VDC Battery 6.0Ah Lithium-Ion	Removable Milwaukee 18VDC Battery 4.0Ah Lithium-Ion	2 x Removable Izumi 14.4VDC Battery 3.0Ah (28.8VDC) Lithium-Ion
Recharge	230VAC Power Cord Included – Works from Mains Power	230VAC Battery Charging Base Included	230VAC & 12/24VDC Battery Charging Base Included
Accessories Included	230VAC Cord Hand Pendant Control Shoulder Strap	1.5m Non-Conductive Hose 2 Batteries 230VAC Charging Base Hand Pendant Control Carry Bag	2 Batteries AC/DC Charging Base Hand Pendant Control
Standard Coupling	CEJN Snap Female	CEJN Snap Female	Parker Screw Female
Dimensions LxWxH (mm)	250 x 165 x 250	205 x 290 x 190	250 x 175 x 380
Weight Inc Battery (kg)	7.5	4.6	15.9











Refer to pages 100 & 105 for hoses and 194–195 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.	SMP-30AR-329C	DSP-120	SPES3502AR	R14EF1(CE)
Features	<ul style="list-style-type: none"> - Durable with Aluminium Tank - "Dead-Man" Switch - Adjustable External Pressure Switch 	<ul style="list-style-type: none"> - Compact Heavy Duty Design - Solenoid Operated Pressure Hold/Retract - Ideal for Bending - Inching Function 	<ul style="list-style-type: none"> - Lightweight Auto-Retract (pop-off internal valve) - Internal Bladder Allows Angled Use 	<ul style="list-style-type: none"> - Robust Design - Retract Any Time
Pressure (bar)	700	700	700	700
Tank Size (L)	2.0	1.2	2.0	2.0
Control (All LV Stepped Down)	3m Hand Pendant	1.8m Hand Pendant	2.5m Hand Pendant	3m Hand Pendant
Power	230VAC	230VAC	230VAC	230VAC
Accessories Included	3m Hand Pendant	1.8m Hand Pendant	2.5m Hand Pendant	3m Hand Pendant
Optional Accessories	<ul style="list-style-type: none"> - SMP-40AR-67B More Powerful & Bigger Tank Version - Roll Frame - Foot Switch SF1 - Load Holding Version SCH-13B Check Valve & Bypass 	<ul style="list-style-type: none"> - Foot Switch SFVA-1-2 	<ul style="list-style-type: none"> - Optional Solenoid Configurations (contact us for more information) 	- N/A
Dimensions LxWxH (mm)	200 x 170 x 393	265 x 145 x 275	400 x 140 x 140	250 x 160 x 355
Weight (kg)	14.5	7.5	8.4	16.5



Refer to pages 100 & 105 for hoses and 194-195 for remote heads



SpikeEase Battery Operated Spike Remover

An alternative advanced solution to the current spike removal methods of hydraulic and claw bar.

- Spike removal 3-7 seconds per spike.
- Lightweight: Milwaukee: 17.60 kg; DeWalt: 16.9 kg
- Up to 9 kg lighter than conventional hydraulic devices.
- No hazardous hydraulic hoses or fluids.
- No need for a fuel-powered generator.
- Reduce the need for claw bars.

SpikeEase Ordering Information

Model No: SPIKE-E-40184-99	Model No: SPIKE-E-40184-98
SpikeEase Se-Up with Milwaukee "T"-Handle Milwaukee Wrench not included	SpikeEase Se-Up with DeWalt "T"-Handle DeWalt Wrench not included



Note: Deep impact socket not included. See below for ordering information

Model No: SPIKE-E-40184-99(BB)	Model No: SPIKE-E-40184-98(BB)
SpikeEase-Complete with Milwaukee Impact Wrench & Socket 2 x 18V 8Ah Li-Ion Batteries 1 x Charger	SpikeEase-Complete with DeWalt Impact Wrench & Socket 2 x 18V 5Ah Li-Ion Batteries 1 x Charger



Optional Extra

MODEL No.	DESCRIPTION	MODEL No.	DESCRIPTION
		DCF899P2-XE	DeWalt Kit (As below)
M18FHIW12-0	Milwaukee Impact Wrench 1/2" Drive	DCF899N-XE	DeWalt Impact Wrench 1/2" Drive
M18HB8	Milwaukee 18V 8Ah Li-Ion Batteries	DCB184-XE	DeWalt 18V 5Ah Li-Ion Batteries
M12-18FC	Milwaukee Fast Charger (230V)	DCB115-XE	DeWalt Charger (230V)

MODEL No.	DESCRIPTION
FTS20194-00	Lock-Spike Pulling Adaptor



SpikeEase Spare Parts

MODEL No.	DESCRIPTION
FTS20182-42	Replacement Claw Assembly
FTS20182-60	Replacement Deep Impact Socket 0.625" x 1/2" Drive

HYDRAULIC LOW PRESSURE PUMPS (MADE IN JAPAN)



MODEL NO. UH SERIES

Low pressure petrol hydraulic pumps for the operation of hydraulic tools and equipment.

FEATURES

- Reliable quality brand petrol driven engines
- Compact design with folding handle and pneumatic wheels for easy manoeuvrability
- Extensive range of tools available to suit
- Equipped with oil cooler which allows continuous use in hotter climates
- Fitted with standard low pressure male & female flush face hydraulic couplings
- UH130 three setting oil flow (20-25-30L/min)
- Single tool operation



SPECIFICATIONS

Model No.	Engine (kW)	Start	Max Pressure (bar/PSI)	Max. Oil Flow (L/min)	Oil Capacity (L)	Overall Dimensions LxWxH (mm)	Wt (kg)
UH070	Subaru 4.2	Recoil (Pull)	117 / 1,700	20.5	4.0	615 x 480 x 577	40
UH130-ELECTRIC START*	Honda GX390/ Robin EX40 9.7	Electric	137 / 2,000	20.0-25.0-30.0	8.0	800 x 590 x 750	102

* Recoil start available upon request

Refer page 99 for hydraulic hose details

FEATURES

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

SPECIFICATIONS

Model No.	UH070
Overall Dimension (mm)	615L x 480W x 577H
Weight (kg)	40
Engine	SUBARU 4.2kW/5.6HP
Maximum Pressure (Bar)	(1,670 PSI)
Max Oil Flow (l/min)	20.5
Oil Capacity (L)	4
Starter	Recoil (Pull start)

FEATURES

- Air Cooled Oil Cooler
- Fitted With Male & Female Flush Face Couplers
- Flip Handle and Pneumatic Wheels for Easy Transportation
- Compact and Reliable
- Large Range of Compatible Tools Available
- Maruzen 30L/min Pump with Subaru
- Electric start

SPECIFICATIONS

Model No.	UH130
Dimensions (mm)	800L x 608W x 650H
Weight (kg) Dry	95
Maximum Working Pressure (Bar)	137 (2,000 PSI)
Oil Flow (L/min)	20-25-30 (3 settings)
Engine Type	Subaru EX40
Oil Capacity (L)	8 litre
Starter	Electric Start

Refer page 99 for low pressure hoses to suit

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



HPP13FLEX*

The bestseller in our FLEXLINE-series of powerpacks. Used mainly for contractors, rental, utilities, supply companies, etc. With its infinitely variable flow adjustment from 0-30lpm. This unit can be used for many tools. The perfect power source for high performance tools like breakers, cut-off saws, core drills, submersible pumps, ring saws and diamond chain saws. Compact, low weight and easily transported in a vehicle. Includes integrated oil alert on engine oil level.



HPP13D*

HYCON HPP13D is a medium sized hydraulic diesel powerpack made for demanding users. This powerpack gives you absolute maximum power to operate tools like breakers, submersible pumps, cut-off saws, drilling tools, core drills, impact wrenches and many other tools. Easily transported in a vehicle. ON-OFF valve for easy change of tool. Extremely easy to service - direct access to all parts. Oil level eye. Few wearing parts/all run in oil/low cost. Very strong and sturdy steel frame. High quality diesel engine. Both recoil and electric start.



HPP24MULTIFLOW

Offers a single 40 litre/minute circuit or two 20 litre minute circuits capable of operating two lower flow requirement tools. If the 40 litre circuit is selected the two 20 litre circuits cannot be used. A simple selector switch selects either circuit option. M&F flush face hydraulic couplings are fitted to all three output circuits. ON-OFF valve for easy change of tool. Extremely easy to service - direct access to all parts. Oil level eye. Few wearing parts/all run in oil/low cost. Very strong and sturdy steel frame. High quality diesel engine.



Features for HPP13FLEX only

HYCON powerpacks are designed for professional users who expect maximum operating time, low service cost and durability. Professional users expect machines to work when they need them. The concept of HYCON powerpacks is to offer high performance, compact, low weight packs and with a minimum of wearing parts. The heart of HYCON packs is the ring cooler that enables us to design a pack where all moving parts are mounted directly on the engine shaft. This way the pump achieves 100% alignment which ensures the low wearing cost and the long lifetime of our packs. Our ring cooler secures optimum cooling in all conditions and does not get clogged up by dirt etc and can be cleaned by high pressure washers. Also all coupling parts are protected inside a housing ensuring maximum lifetime. **A HYCON powerpack you can rely on.**

SPECIFICATIONS

Model No.	Starter	Fuel Type	Power		Output & Flow		Pressure Max	Weight
	Engine Brand		(kW)	HP	Dual Ports	L/pm	(bar)	(kg)
HPP13FLEX	Manual/Recoil	Petrol	9.7	13	1	20-30	138	81
	Honda					Adjustable		
HPP13D	Manual/Recoil & Electric	Diesel	8.2	11	1	20-30	140	114
	Lombardini					Adjustable		
HPP24MULTIFLOW	Electric	Diesel	17.9	24	2	20-40	160	220

* C/W Manual Adjustment Lever to select oil flow 20 or 30 L/pm

HYDRAULIC RATCHET WRENCH (MADE IN USA)

MODEL NO. 20-000230-DP

For Loosening, Tightening, and Torqueing Main Bearing Nuts on EMD 567 and 645 Diesel Engines.

This heavy duty wrench with safe and controllable hydraulic power will reduce your time and effort in servicing main bearings. Savings in locomotive out-of-service time will quickly repay your investment.

The Model 2000 Hydraulic Ratchet Wrench features adjustable torque range. The smooth hydraulic force eliminates impact or shock loads. This allows for precision torqueing of each nut to prevent uneven "A-Frame" stress. The Wrench is equipped with push buttons built into the wrench body for direct control.

FEATURES

- Hydraulic Ratchet Wrench
- Hydraulic Power Unit 0.84kW (1 1/8HP) Electrically Driven 700Bar (10,000PSI), complete with 2 selectable pressure switches, pressure regulator and factory sealed pressure relief valve
- 7.6m Hydraulic and Electrical supply lines
- 3 sockets
- Crankcase Safety Saddle
- An Air Motor, Air Hose, and 3/8" Drive Socket
- All mounted on a pneumatic tired cart for ease of mobility



SPECIFICATIONS

Model No.	Hydraulic (Bar)	Electric (VAC)	Torque Range (Nm)	Cable Length (m)	Motor (kW)
20-000230DP	700	230/50	270-1220	7.6m	0.84

HYDRAULIC RATCHET WRENCH (MADE IN USA)

MODEL NO. 28-000230DP

For Loosening, Tightening, and Torqueing Main Bearing Nuts on EMD 567 and 645 and 710 Diesel Engines

This heavy duty wrench with safe and controllable hydraulic power will reduce your time and effort in servicing main bearings. Savings in locomotive out-of-service time will quickly repay your investment.

The Model 28 Hydraulic Ratchet Wrench features adjustable torque range. The smooth hydraulic force eliminates impact or shock loads. This allows for precision torqueing of each nut to prevent uneven "A-Frame" stress. The Wrench is equipped with an adjustable handle and push buttons built into the wrench body for direct control.

FEATURES

- Hydraulic Ratchet Wrench
- Hydraulic Power Unit 0.84kW (1 1/8HP) Electrically Driven 700Bar (10,000PSI), complete with 2 selectable pressure switches, pressure gauge, pressure regulator and factory-sealed pressure relief valve
- 7.6m Hydraulic and Electrical supply lines
- 4 sockets
- 2 styles of Crankcase Safety Saddles
- An Air Motor, Air Hose, and 3/8" Drive Socket
- All mounted on a rubber tired cart for ease of mobility



SPECIFICATIONS

Model No.	Hydraulic (Bar)	Electric (VAC)	Torque Range (Nm)	Cable Length (m)	Motor (kW)
28-000230DP	700	230/50	270-1220	7.6m	0.84



HYDRAULIC PUSH OVER MACHINE (MADE IN USA)

MODEL NO. 43-000230

For Barring-Over All EMD Locomotive Engines Equipped with Jacking Pads

The new, improved Model 43 is the “no-sweat” way to bar-over your EMD engines, reduce your labor requirements and speed up engine inspection and repair. Piston, Ring, and Liner inspections can be made quickly and easily by one man.

The Model 43 is a state-of-the-art electronically controlled hydraulic system designed for high durability and ease of maintenance. The hydraulic manifold has “quick change” ability incorporated. The plug-in style electrical connectors and the screw-in style hydraulic components make the Model 43 maintenance friendly.

FEATURES

- 1.12kW (1.5HP) 137Bar (2,000PSI) Power Unit with 230VAC single phase motor
- Push-Over Power Head with 9m Supply Lines
- Electrical Control Panel
- Control Pendant attached to Power Unit by 9m Control Cable
- All mounted on pneumatic tired cart for ease of mobility

SPECIFICATIONS

Model No.	Hydraulic (Bar)	Electric (VAC)	Cable Length (m)	Motor (kW/HP)
43-000230	700	230/50	9.0	1.12/1.5

HYDRAULIC RATCHET WRENCH (MADE IN USA)

MODEL NO. 60-000230DP

For Loosening, Tightening, and Torqueing Crab Nuts on EMD 567 and 645 and 710 Diesel Engines

This heavy-duty wrench allows for smooth and accurate torque with a range of up to 4750Nm and maximum breakaway of 5-52Nm. Three torque settings available are factory at 1220, 2440 & 3250Nm. The mechanic controls the torque by push-button and does not have to maintain visual contact with the gauges to monitor stroke or output. The wrench cycles continuously until the selected torque is reached. At this point the unit shuts off automatically notifying the user that the crab nut is torqued.

FEATURES

- Hydraulic Ratchet Wrench
- 0.84kW (1-1/8HP) Electrically Driven 700Bar (10,000PSI) Hydraulic Power unit
- Industrial Controls
- 18.9L reservoir
- 3 Selectable Pressure Switches
- Pressure Gauge
- Pressure Regulator
- Factory Sealed
- Pressure Relief Valve
- 7.6m Hydraulic & Electric Supply Lines with Pendant Control
- 2 Socket Torque Fixtures
- All Mounted on a Pneumatic tired Cart for Ease of Mobility

SPECIFICATIONS

Model No.	Hydraulic (Bar)	Torque Range (Nm)	Electric (VAC)	Cable Length (m)	Motor (kW)
60-000230DP	700	4750 (Max. Breakaway 5-52)	230/50	7.6m	0.84





COMBINATION HYDRAULIC CRAB NUT/MAIN BEARING RATCHET WRENCH (MADE IN USA)

MODEL NO. 60-20-COMBO-230

Model 60/20 Combination Crab Nut/Main Bearing For Loosening, Tightening, and Torqueing Crab Nuts and Main Bearings on EMD Engines.

The Model 60/20 is an economical and space-saving way to torque main bearings and crab nuts. This unit utilises one hydraulic power unit for use with either of the two wrench heads. The quick disconnects on both the hydraulic and electrical systems make a quick changeover between wrench heads quick and easy. Three selectable pressure settings set at 1220, 2440 & 3250Nm for the crab nut wrench and when interchanged with the main bearing wrench, the ratio difference self adjusts so that the torque is 470 & 1000Nm. These pressure control switches are completely adjustable to meet your requirements. The entire unit is mounted on a 2-wheel pneumatic tired cart, allowing the whole unit to be easily moved from unit to unit.

FEATURES

Complete Unit Consists of:

Model 2000 Main Bearing Wrench Head with:

- 7.6m Hydraulic and Electrical Supply Lines with Quick Disconnects
- 3 Sockets
- Crankcase Safety Saddle
- Air Ratchet, 7.6m Air Line and 3/8" Drive Socket

Model 60 Crab Nut Wrench Head with:

- 7.6m Hydraulic and Electric Supply Lines with Pendant Control
- 2 Socket Torque Fixtures

Electrically Driven 0.84kW (1 1/8 HP), 700Bar (10,000 PSI) Hydraulic Power Unit with:

- 18.9L Reservoir
- Electrical and Hydraulic Quick Disconnects
- 3 Selectable Torque Settings
- Pressure Gauge, Pressure Regulator, and Factory Sealed Pressure Relief Valve
- Mobile Storage Cart



SPECIFICATIONS

Model No.	Hydraulic (Bar)	Electric (VAC)	Cable Length (m)	Motor (kW)
60-20-COMBO-230	700	230/50	7.6	0.84

HYDRAULIC RATCHET WRENCH (MADE IN USA)

MODEL NO. 28-000230DP

For Traction Motor Suspension Bearing Bolts Removal or Installation on EMD or GE Engines

The Model 70 Hydraulic Ratchet Wrench is a safe and efficient wrench for Traction Motor Suspension Bearing Bolts that reduces time and effort. Savings in labor and locomotive downtime will quickly repay your investment.

This Wrench offers smooth, controllable hydraulic power that prevents impact or shock loads, Multiple Torque Settings with a torque range of 270-2160Nm, and precise and repeatable torques to insure even and accurate tightening of bearings.

FEATURES

- Hydraulic Ratchet Wrench
- Hydraulic Power Unit –0.84kW (1 1/8HP) Electrically Driven 700Bar (10,000PSI) Power Unit, complete with controls, pressure gauge, pressure regulator, and factory sealed pressure relief valve
- 7.6m hydraulic hose and control cable
- Sockets and swing torque arm for EMD or GE traction motor bearings
- All mounted on a rubber tyred cart for ease of mobility

SPECIFICATIONS

Model No.	Hydraulic (Bar)	Electric (VAC)	Torque Range (kN)	Cable Length (m)	Motor (kW)
28-000230DP	700	230/50	0.27-2.16	7.6m	0.84

CRAB NUT HYDRAULIC RATCHET WRENCH (MADE IN USA)

MODEL NO. 600-230

Works on all 567, 645 & 710 EMD Diesel Engines

Now the mechanic has one unified wrench to handle all Crab Nuts – even the hard to fit end spots of the top deck. Once the wrench is applied the operator simply selects the torque required and holds the tighten or loosen button. The integrated computer will control torque and automatically stop on the completion allowing the operator to move to the next location.

FEATURES

- Compact Design with 20% more available power
- Hydraulic Ratchet Wrench
- 0.84kW (1-1/8HP) Electrically Driven 700Bar (10,000PSI) Hydraulic Power unit
- Industrial Controls
- 18.9L reservoir
- 3 Selectable Preset Adjustable Torque Settings (3250, 2440 & 1220Nm)
- 7.6m Hydraulic & Electric Supply Lines with Pendant Control
- Pressure Regulator, Gauge, Factory Seal Pressure Relief Valve

SPECIFICATIONS

Model No.	Hydraulic (Bar)	Electric (VAC)	Cable Length (m)	Motor (kW)
600-230	700	230/50	7.6	0.84 (1-1/8HP)



100 TON RAILROAD AXLE JOURNAL ROLLER BEARING PUSH/PULLER

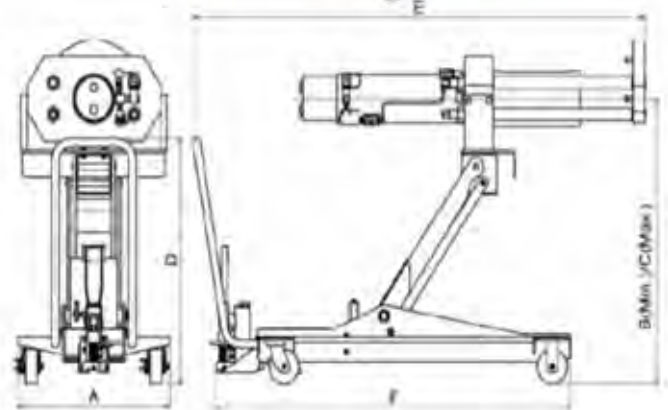
DURAPAC
ENGINEERED FOR RELIABILITY

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.	DRP-100E
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	*	*	*	*

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.

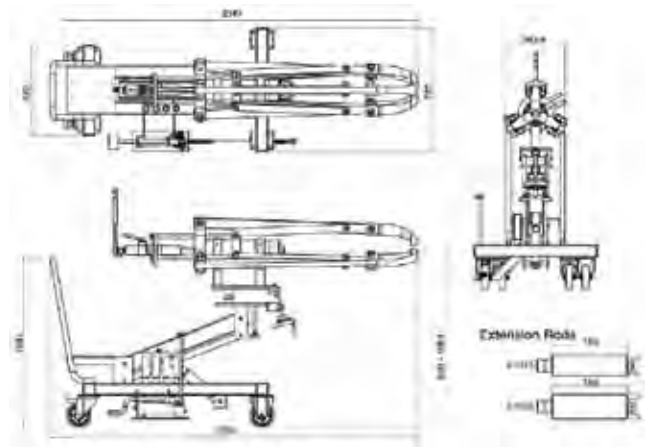
50 TON HYDRAULIC PULLER

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.	DHP-50
Stroke (mm)	330
Capacity (Ton)	50
Max Spread (mm)	1250
Max Reach (mm)	900
Weight (kg)	391

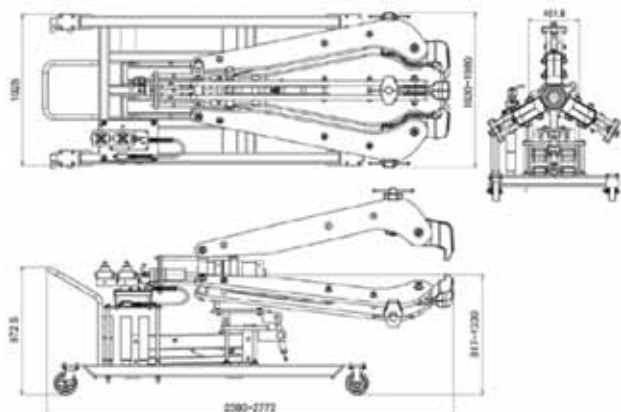


100 TON HYDRAULIC PULLER

FEATURES

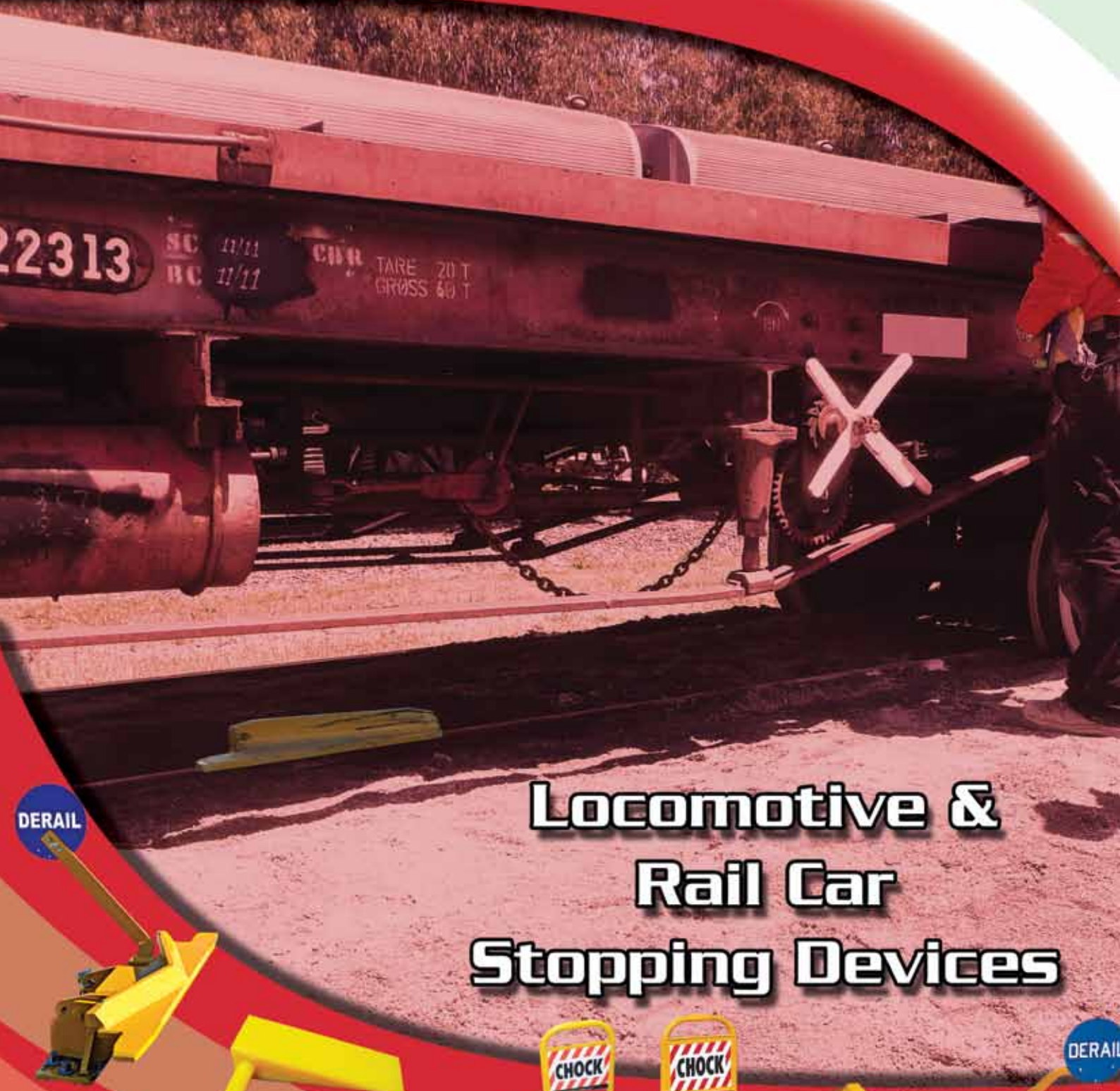
- Flow metering system provides constant lowering speed
- Double-acting hydraulic system for holding, opening & closing jaws; provides safe and secure grip at all times
- Single-acting, spring return, 100 Ton capacity cylinder
- Self-centring design keeps puller jaws clamped evenly on the work piece
- 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.	DHP-100
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





SPECIALISED FORCE
HYDRAULIC TOOLS &
SPECIALISED EQUIPMENT
PTY. LTD.



Locomotive & Rail Car Stopping Devices

www.specialisedforce.com.au



LOCOMOTIVES & RAIL CAR STOPPING DEVICES

122–145

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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:

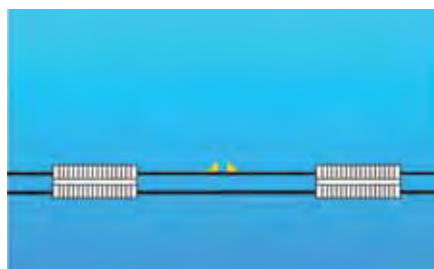
The derail lifts the flange of the car wheel and drops it clear of the rail. At the same time the wheel on the other rail falls down between the rails. The derailed wheels bite into the soft surface of sleepers and ballast and slide to a stop. Depending on speed, a derailed car or locomotive may travel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

Effective derailing depends on

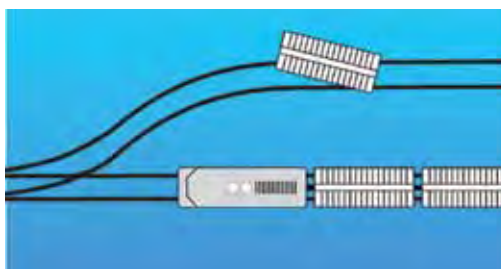
- Derail properly sized, installed, and maintained
- Cars and locomotives moving at slow switching speeds (less than 5 mph).
- Flat track -- no grades
- Track open to the sleepers and ballast
- In curved track, derail installed on outer rail, not inner rail
- Ample open space along track for derailed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



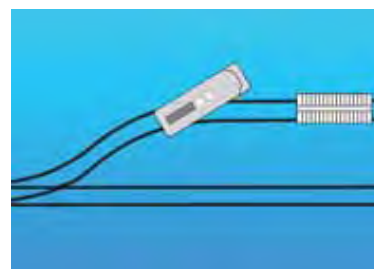
DERAILS HELP PREVENT



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


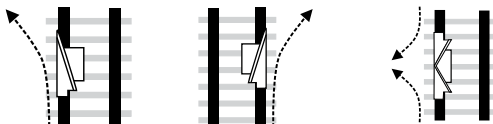


SaberTooth™ Portable Derails

Tool-free installation. Timber sleeper-biting anchor hook

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

IMPORTANT INFORMATION ON DERAILS

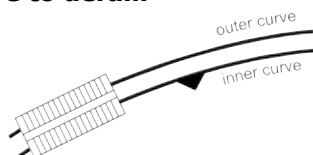
Type of Rail?	Derail Throw Direction?
 <p>All three types of derails are designed to be used on exposed rail (open to the sleepers).</p> <p>DO NOT USE DERAILS ON FLUSH RAIL (rail that is encased in pavement)</p> <p>DO NOT INSTALL DERAIL ON CONCRETE OR RESIN SLEEPERS</p>	 <p>1-way left 1-way right 2-way</p> <p>Note that direction of throw is from the viewpoint of the oncoming locomotive or rail car</p>

Type of Sleepers - Wood or Steel? Hinged derails can be installed directly on wooden sleepers. Steel sleepers require adapter plate (see page 125). Retractable and portable derails must be installed on wooden sleepers only.

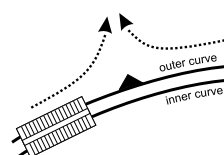
1-way or 2-way Derail? Consider the type of rail movement you have on your spur tracks. The primary purpose of the derail is to prevent unauthorised locomotive entry into your siding. A secondary purpose is to prevent a freight car on your siding from rolling out onto the main line.

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 125) 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 127 for guidance.



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 127. 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





SCAN
& PLAY





By ARTC Cert.
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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





SCAN
& PLAY



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 129). 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.	4014-13
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

MODEL NO. 4014 SERIES

SideKick Derail Booster is designed for hinged derails. Use SideKick Derail Booster wherever additional derailing capability is needed. SideKick is useful in curved track where the derail has to be located on the inner curved rail. In such a situation, by placing the sidekick on the outer curved rail, the derailing capability is enhanced.

For more information on the problem of derailing in curved track, see page 123.

Sidekick is installed opposite a hinged derail on the same two sleepers. Like a hinged derail, SideKick folds down between the rails when not needed.



NEVER use a SideKick alone. It should always be used in conjunction with the Aldon hinged derail model specified at the right. Workers must ensure that the derail and the SideKick are both in the same position (on or off the rail) at all times.

SideKick works with a derail to give an extra boost to assure derailing by guiding the wheels of a car or locomotive off both rails.

SIDEKICK DERAIL BOOSTER		
Model No.	Throw	Wt (kg)
4014-15	Left	59
4014-16	Right	59



TWO-WAY FREIGHT CAR SIDEKICK DERAIL BOOSTER		
Model No.	Throw	Wt (kg)
4014-17	Left	59
4014-19	Right	59



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)
4114-10-L	Left	210.0
4114-10-R	Right	210.0
4114-11	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
4114-13	Two Direction
4114-12	One Direction – Left
4114-14	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-spiking 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



LEFT/RIGHT THROW

For freight cars and 4-axle locomotives only. Do not use with 6-axle locomotives

For 4-axle and 6-axle locomotives and all freight cars

Wooden Sleepers, Tie Spacing 482-610mm

Wooden Sleepers, Tie Spacing 457-610mm

Model No.	Suits Rail (kg)	Wt (kg)	Model No.	Suits Rail (kg)	Throw	Wt (kg)
4014-09-S	45-62	22.7	4014-06-S	41-64	Left	15.9
			4014-07-S	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 124)

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

Model No. **4015-170**

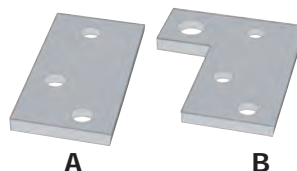
Lifting Levers

Handle effort 9.1kg to flip derail



Model No. **4014-25** Suits Thick 25.4mm

Model No. **4014-28** 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**

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 and watch our two-minute video on chock spur maintenance.



SCAN
& PLAY



MODEL NO. 6008

Replacement Spurs

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



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

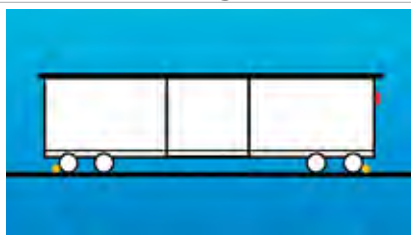
Encased in pavement with only a flangeway on inside of rail



Single Chocks or Double Chocks?

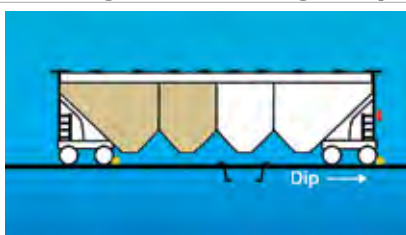
Recommended chocking procedures for single cars on flat track

Idle Car on Storage Track



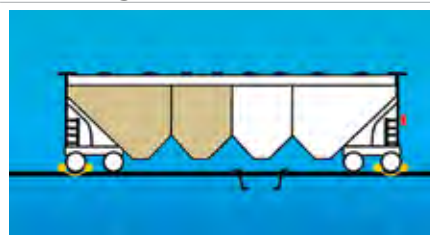
If the track is flat and there is no vibration, single chocks at each end can be used to block car movement. **Set brake before chocking**

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



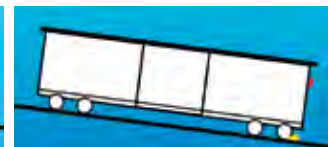
Double chocks on each end of the car provide two-chock blocking against movement in either direction. **Set brake before chocking**

Recommended chocking procedures for multiple cars on flat track



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

Car on sloped track



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)
4011-01	A	Exposed	5.9	4011-06	C	Exposed	7.3
4011-02	A-1	Flush	5.9	4011-07	C-1	Flush	7.3
				4011-08*	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)
4011-09	D	Exposed	2.7	4011-03	B	Exposed	5.5
4011-10	D-1	Flush	3.6	4011-04	B-1	Flush	5.5
				4011-05*	B-2	Exposed	9.1

*with tension clamp and padlock

MODEL NO. 4011 SERIES STAY-CLEAR CHOCKS WITH FLAG

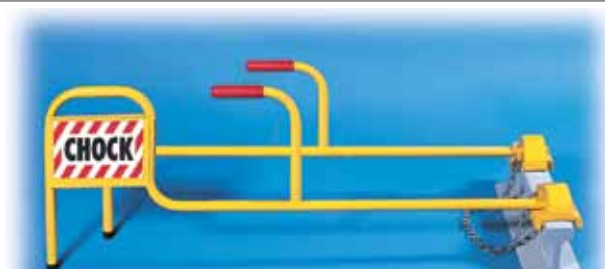
Keep your head and hands away from the rail car when placing wheel chocks.

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)
4011-14	Exposed	6.4	4011-16	Exposed	11.8
4011-15	Flush	6.4	4011-17	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)
4011-30	Exposed	6.4
4011-31	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)
4011-32	Exposed	7.3
4011-33	Flush	7.3

Model No.	Suits Rail Type	Weight (kg)
4011-34	Exposed	8.2
4011-35	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)
4011-36	Exposed	6.4
4011-37	Flush	6.4

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



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)
4011-22	4011-03, 4011-04, 4011-10, 4011-09	2.27

MODEL NO. 6008



SCAN
& PLAY

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 and watch our two-minute video on chock spur maintenance.

Model No.	Description
6008	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

ALDON
CO



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)
4023-07	41-68	3.2



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.

Model No.	Image	Description	Rail Size (kg)	Service Type*	Weight (kg)
4016-10		For light to average weight cars, as car stopper and wheel chock	41-60	Industrial Exposed	8.6
4016-09		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	41-60	Industrial Exposed	5.9
4016-12		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 41-60kg)





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)
4016-22-L	102	458	5.9
4016-22-R	102	458	5.9



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


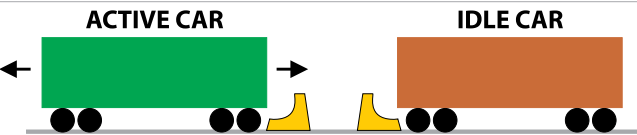
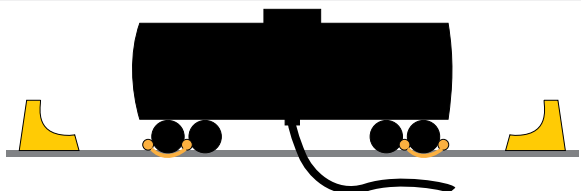

MODEL NO. 4016 SERIES

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	End-of-Track Stop For car storage tracks and lightly used loading tracks	
2	Car Separation Avoid contact between rail car being moved and nearby parked rail cars. Provide ample distance between stops and car.	
3	Backup for Chocks Provide additional stopping protection if wheel chocks/brake can't hold car steady.	
4	Chocking on Grades (1% max. slope) Procedure: <ol style="list-style-type: none"> 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. 	

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)
4016-05-R	Right Hand	Hinged, Locking	43
4016-05-L	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)
4016-03	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)
4016-06	Self-Tightening	79





TEMPORARY RAIL SPLINT (MADE IN USA)

MODEL NO. 4023-75

An emergency bridge or splint is for broken or badly chipped rail. With this device there is no need to stop train movement when rail cracks. Fits most rail sizes and splint bolts directly to the web of the rail. It is easy to assemble with a hand wrench. Safety chains wrap around nearest sleeper at each end to minimise slippage.

CAUTION:

- 1. Limit train speed to 8 kph over Splint
- 2. Signals may be interrupted when rail breaks (restore signal integrity after using Rail Splint)
- 3. This product is for temporary use only



Model No.	Weight (kg)
4023-75	22.7



LOCOMOTIVES & RAIL CAR STOPPING DEVICES

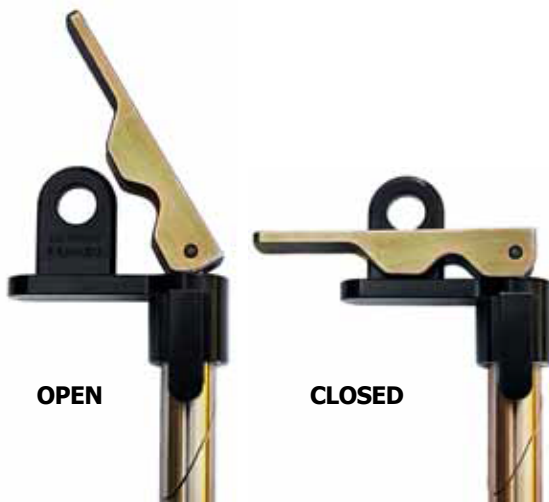
www.specialisedforce.com.au

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)
2323003A	76 x 89 x 25	0.1

RAIL REPAIR CLAMP (MADE IN AUSTRALIA)

MODEL NO. SF-G120

Used in conjunction with fish plates and another clamp to secure cracked, broken or damaged rail for short term use. Clamp goes under the rail and allows for rail traffic until welded. Comes with lock nuts each end and made from drop forged steel.

SPECIFICATIONS

Model No.	Length (mm)	High (mm)	Wt (kg)
SF-G120	330	200	10.2

Recommended to be Used in Pairs. Sold Separately.



for use by ARTC



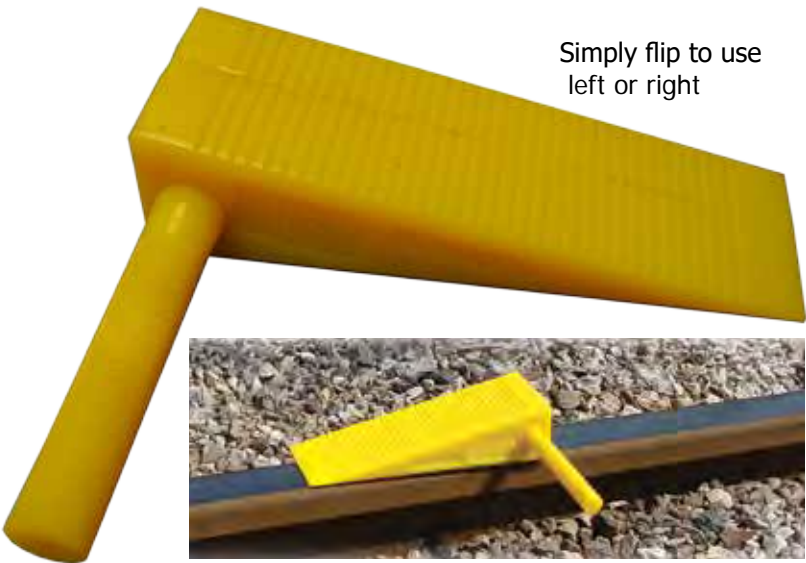
Suits 41, 47, 50, 53, 60 & 68 kg/m



Simply flip to use
left or right

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 derailling the car.



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)
4011-18	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 derailling. 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.

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 squeezes 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.

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



SCAN
& PLAY

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)
4011-42	Exposed	2.3

Model No.	Rail Type	Wt (kg)
4011-43	Flush	2.3

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

Model No.	Rail Type	Wt (kg)
4011-40	Exposed	4.1

Model No.	Rail Type	Wt (kg)
4011-41	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)
4118-01-I	30-41	Burlington	Inside	46
4118-01-O	30-41	Burlington	Outside	46
4018-04-I	47-60	Burlington	Inside	77
4018-04-O	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)
4018-01-L	41-60	Straddle-Type	Left	77
4018-01-R	41-60	Straddle-Type	Right	77
4018-02-L	30-50	Straddle-Type	Left	62
4018-02-R	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	Side	Weight (kg)
4118-14-I	41-53	McCarty	Inside		95
4118-14-O	41-53	McCarty	Outside		75
4118-15-I	60-68	McCarty	Inside		96
4118-15-O	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).



Model No. *	Suits Rail Size (kg)	Style	Type	Side	Weight (kg)
4018-12-I	50-60	BIG RED		Inside	57
4018-12-O	50-60	BIG RED		Outside	57
4018-13-I	68	BIG RED		Inside	62
4018-13-O	68	BIG RED		Outside	62

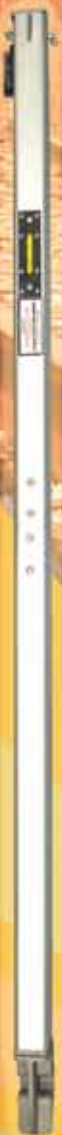
Chains which are sold separately secure the rerails to the rail, two are required per rerailer (so four are required per set).

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



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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)
4023-74	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)
4023-50	Head of Rail (Non-Insulated)	406	10.9
4023-51	Base of Rail (Non-Insulated)	406	10.9
4023-52	Base of Rail (Insulated)	406	10.9

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.

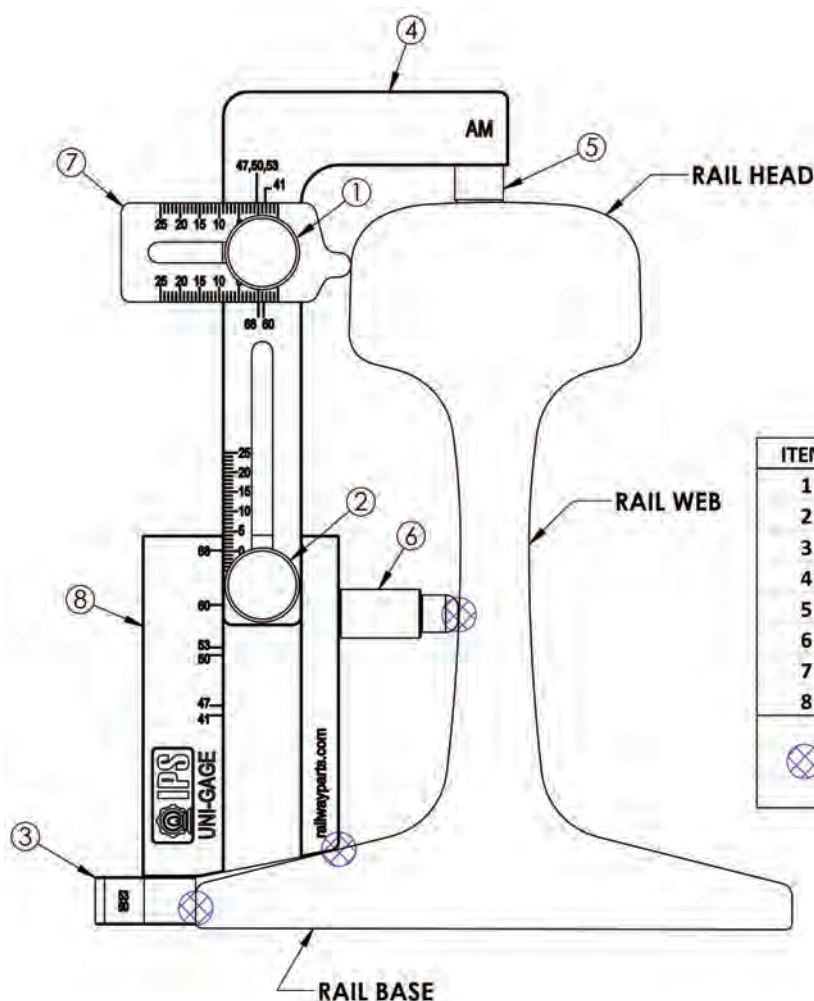
Please Note: For new rail without previous wear, both horizontal and vertical scales should read zero. To maximise rail wear gauge longevity and performance, rail wear gauges should be stored away in a protective case as supplied with the unit.

FEATURES

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

SPECIFICATIONS

Model No.	Suits Rail (kg)	Unit Wt (kg)
446401AUS	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)
4022-07B	Broad	Metric	Imperial	5
4022-07DUAL	Standard/Broad	Metric	Imperial	5
4022-07N	Narrow	Metric	Imperial	5
4022-07S	Standard	Metric	Imperial	5

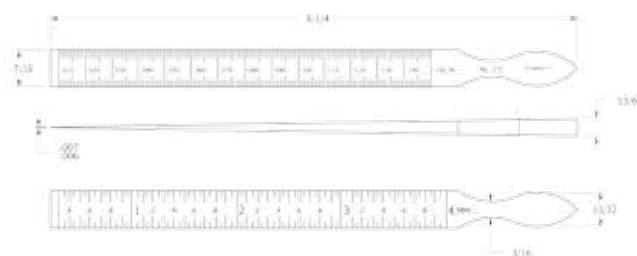
Starrett®

RAIL TAPER GAUGES (MADE IN USA)

MODEL NO. 4124-98



4124-98



SPECIFICATIONS

Model No.	Features	Specifications	Unit Wt (kg)
4124-98	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



PTC312CRR

-20°C to +120°C



PTC314CRR

+10°C to +400°C

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)
PTC312CRR	Measurement of temperature in °C	-20°C to +120°C	0.043
PTC314CRR		+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)
SE1M	1	2.27



ARTC approved 0.5 & 1.8mm straight edge available upon request

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

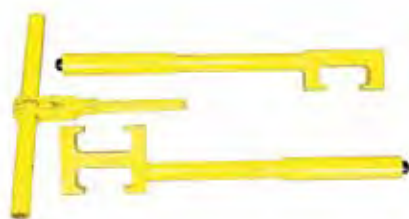


Model No.	Accuracy ($\pm\%$)	Weight (kg)
TRU5061	1	5.9



RAIL GAUGE EXPANDERS/PULLERS (MADE IN CANADA)

These expander and puller 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)
2310030A-N	Base	Narrow 1067mm	2 x Single Sided	41-60	No	51x65x1160	8.7
2310030A	Base	Standard 1435mm	2 x Single Sided	41-60	No	51x65x1524	9.1
2310030A-B	Base	Broad 1600mm	2 x Single Sided	41-60	No	51x65x1765	11.5
2310030B-N	Base or Top	Narrow 1067mm	1 x Single & 1 x Double Sided	41-60	No	51x65x1160	17.5
2310030B	Base or Top	Standard 1435mm	1 x Single & 1 x Double Sided	41-60	No	51x65x1524	18.7
2310030B-B	Base or Top	Broad 1600mm	1 x Single & 1 x Double Sided	41-60	No	51x65x1765	20.1
2310030D-N	Base	Narrow 1067mm	2 x Double Sided	41-60	Yes	51x65x1160	18.4
2310030D	Base	Standard 1435mm	2 x Double Sided	41-60	Yes	51x65x1524	19.6
2310030D-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)
4127-01	Single End	12.7
4127-02	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 derailleurs. The pole is manufactured from steel tubing, 2.44m long with snap hook in the centre.

Model No.	Length (m)	Weight (kg)
4024-54	2.44	4.6



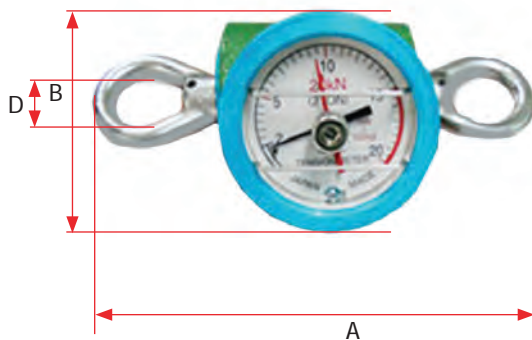
CHECK
WITH YOUR
SAFETY OFFICER
WHAT IS "SAFE"
TO LIFT

DYNAMOMETERS AND LOAD CELLS (MADE IN JAPAN)

HI-TOOL CO., LTD

FEATURES

- Compact, lightweight, rugged construction.
- Designed for line work.
- Graduated in kN (1 kilo newton "kN" = 102 kg force).
- Accuracy +/- 3% full scale.
- Both pulling eyes rotate 360°.
- 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)
TM-5 COMPLETE*	5	0.5	0.1	160	75	90	20	0.9
TM-10 COMPLETE*	10	1.0	0.2	190	75	90	25	1.0
TM-20 COMPLETE*	20	2.0	0.5	190	75	90	25	1.1
TM-30 COMPLETE*	30	3.0	0.5	240	75	95	35	1.9
TM-50 COMPLETE*	50	5.0	1.0	250	90	120	35	2.6
TM-100 COMPLETE*	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

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

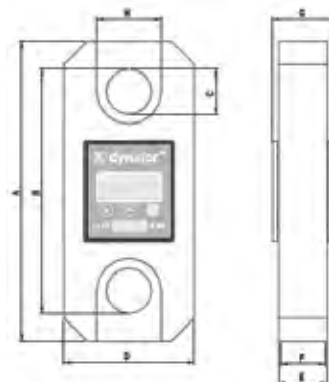
- Cut corners: risks minimized hooking during lifting operations
- Good readability: height of digits on the LCD: 18 mm

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: $\pm 0.3\%$ 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.

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

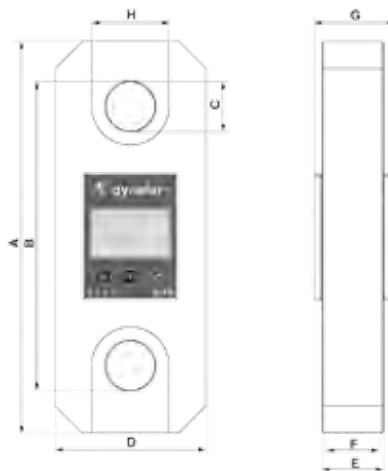
Strain gauge measurement of the extension, within its limits of elasticity, of a metal body subjected to traction stress. The sensor generates an electrical signal that is proportional to the load. This signal is processed by a micro-processor analyser and then displayed on a built in LCD display.

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.



MODEL: LLX1-REMOTE



SCAN
& PLAY



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	± daN	0.2 % FS							
		1	2	4	6	10	13	25	40
Increment	daN	0.2	0.5	1	1	2	2	5	10
Max. Display	daN	110 % maximum capacity							
Number Height	mm	18							
Autonomy		450h (Batteries 1.5 V "AA ")							
Weight	kg	1.1	1.1	1.3	1.5	2.3	2.3	4.3	7
IP Protection		I.P. 65							
Usafe		From - 20° to 40°C							
Sensitivity to T°		0.05% per 10°C							
Sensor Material		Aluminium							
Dimensions mm	A	220	220	233	243	275	275	343	371
	B	196	196	207	207	217	217	257	269
	C	14	14	22	22	28	28	42	54
	D	90	90	100	100	115	115	125	134
	E	32	32	32	32	32	32	51	67
	F	16	16	24	24	29	29	48	64
	G	47.5	47.5	47.5	47.5	47.5	47.5	66.5	67
	H	45	45	50	50	57	57	62	66
Radio Option		RF technology: Zigbee 2.4 GHz				Range : 40 m in free field, see details § 14			

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

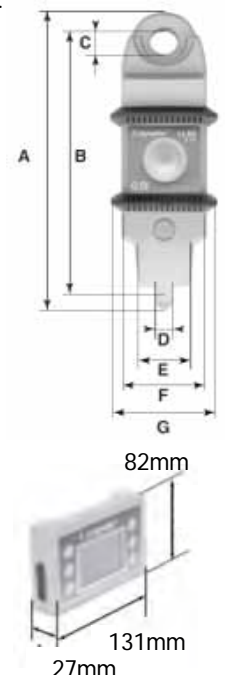
- Up to 4 sensors can be associated to up to 4 displays each.

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		-	-	-	-	-	-	-	25	
Radio scope	m	From 300 to 1000 h depending of functions								48 h
RF Technology		80 (in open field) (IP67 = 60)								
Weight	kg	2.300				2.4 Ghz				
IP Protection		3.350						6.45	0.180	
Usage		IP 66 NEMA 4 (option : IP 67)								IP 54
Sensitivity to T°		From - 20° to 40°C								
Head Material		0.05% per 10°C								
Sensor Material		Steel								-
Dimensions mm		Aluminium						Steel	-	
	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	-	



82mm

131mm
27mm

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.

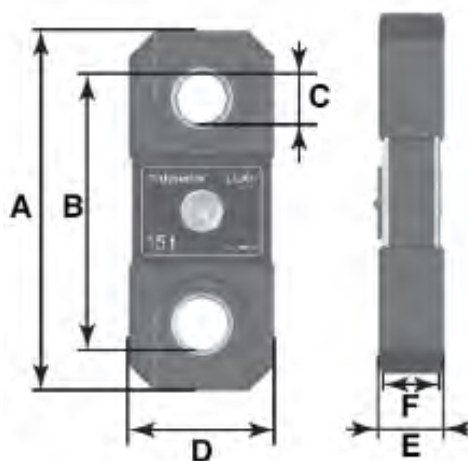
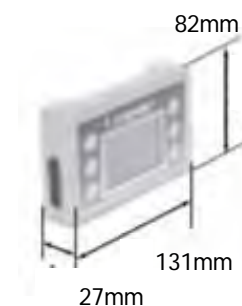
They are precise within +/- 0.2% and are available from 15T (150kN) to 250T (2,500kN).



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	-



RTM - ROPE TENSION METER

The RTM can be used in applications where accurate measurement in pre-loaded wire ropes is required. Such applications can be stay ropes, suspension ropes, catenary ropes etc. The RTM is applied direct to the rope and the measured tension value is presented digitally.

RANGE OF APPLICATION

The RTM was designed to swiftly and accurately measure the tension in fixed or stationary ropes or cables i.e. guy wires for masts and/or towers or other guyed constructions. The RTM will also be very useful in determining the tension in overhead suspension ropes for railways catenary's. The RTM can be used to measure tension forces up to 20 metric ton and for wire ropes with a diameter of up to 38 mm. Thanks to the use of microprocessor technology the RTM can be calibrated on up to 10 different wire rope dimensions/types. The digital read out display will clearly show the tension of the wire rope selected. No calibration tables are required.

FUNCTION

The RTM is very simple and handy to use. Simply hold and "clip" it to the rope to be tested and use the large hand screw to deflect the rope to a fixed angle. The resultant force will then affect the load cell and measure the tension in the wire rope. The resultant signal is digitally processed and displayed in a graduation selected and pre-programmed. The RTM can be graduated in kN, klb or in metric ton.

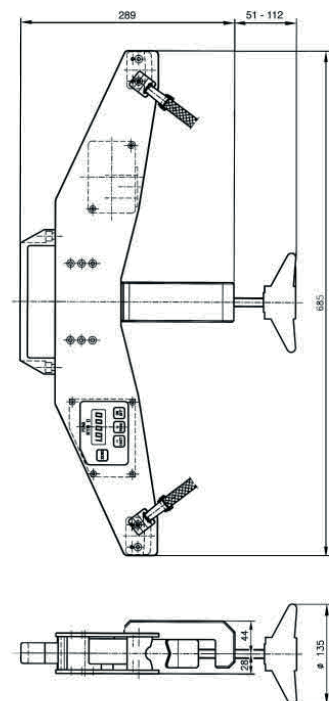
SAFETY

The RTM is a delicate testing instrument for swift, handy and accurate testing of pre-tensioned stationary ropes. Thanks to the design of the instrument it can temporarily be overloaded with 100% of its nominal capacity without affecting the accuracy of the instrument. Tempered outer rope supports and centre clamping jaw give the instrument a long service life with accurate measurements. The RTM is delivered in a robust and light weight transport case (760 x 400 x 170 mm) for easy handling and protection of the instrument.

SPECIFICATIONS

Capacity (Measurement Range)	2 – 20 ton
Rope OD	6 – 38mm
Numbers of Ropes to be Stored	Up to 10 (factory programmed)*
Accuracy	2 – 6% of max. capacity (Dependant on wire rope type and characteristics)
Display	Digits 12mm, LCD, 0-19999
Battery	9V Standard, 6LR61 or equivalent
Operating Time	25 Hours
Material	Corrosion and weather resistant, side plates anodised aluminium
Dimensions	135mm x 380mm x 685mm
Weight	6.2kg
Temperature Range	-20 to +60°C
Protection Class	Conforms to class IP 65 according to IEC 529. NEMA 13.

*1st Rope Calibration Free



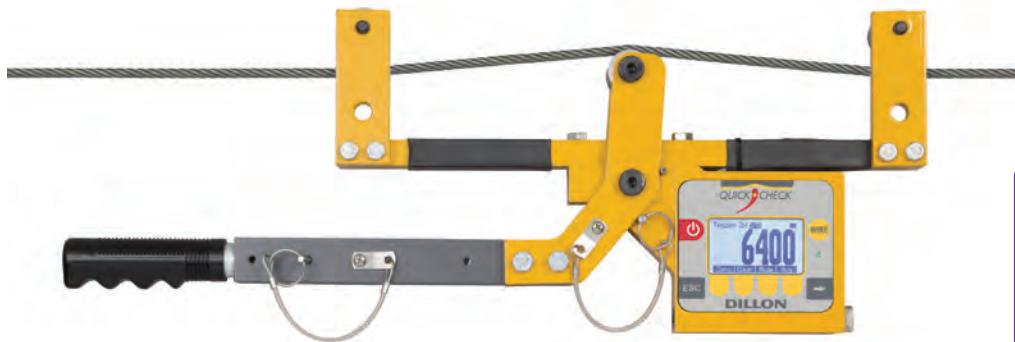
Contact Specialised Force for Tension Meter Sizes & Pricing

QUICK CHECK "RED" CABLE/WIRE TENSION METER

DILLON

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) ¹	Re-Calibration	Size (cm)	Wt (kg)
AWT05-508112	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
AWT05-508111	45/4500								
36328-0017MTS (Included)		Carry Case - Medium Duty, Die Cut Density Foam						70x41x20	1.5

* ±3% instrument capacity (calibrated to specific wire size & type, ±5% with same wire diameter as calibrated but different wire type).

¹ Sheave accommodates wire size 12.7mm smaller.

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

* "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
AWT05-508112			
Kilogram-Force (kgf)	5	2	1
Newton (N)	50	20	10

45kN/4500kgf Quick-Check Instrument

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



SPECIALISED FORCE
HYDRAULIC TOOLS &
SPECIALISED EQUIPMENT

PTY. LTD.

Track Jacks & Wagon Stabilisers



www.specialisedforce.com.au



TRACK JACKS & WAGON STABILISERS

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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.

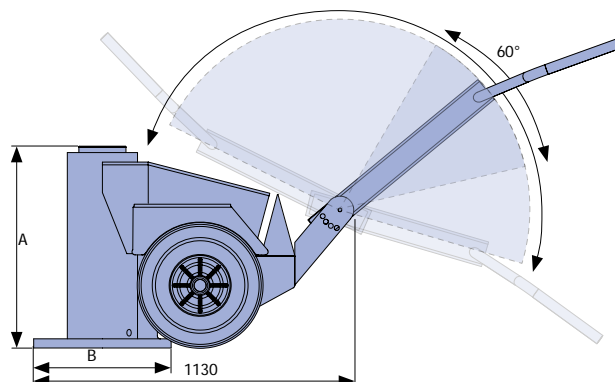
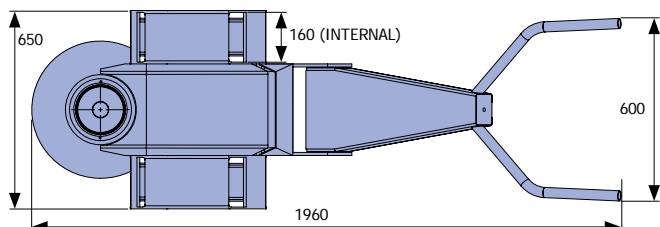


Model Number	Jack Capacity			Cylinder Effective Area (cm ²)	Collapsed Height (mm) **	Stroke (mm)	Maximum Lift Height (mm) ***	Weight (kg)	Oil Tank Capacity (L)
	Metric (tonne)	US (ton) *	(kN)						
SDL-07068	70	77	686	143	680	404	1,408	290	24
SDL-07081	70	77	686	143	812	535	1,680	320	24
SDL-10068	100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

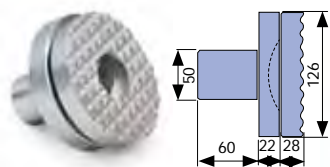
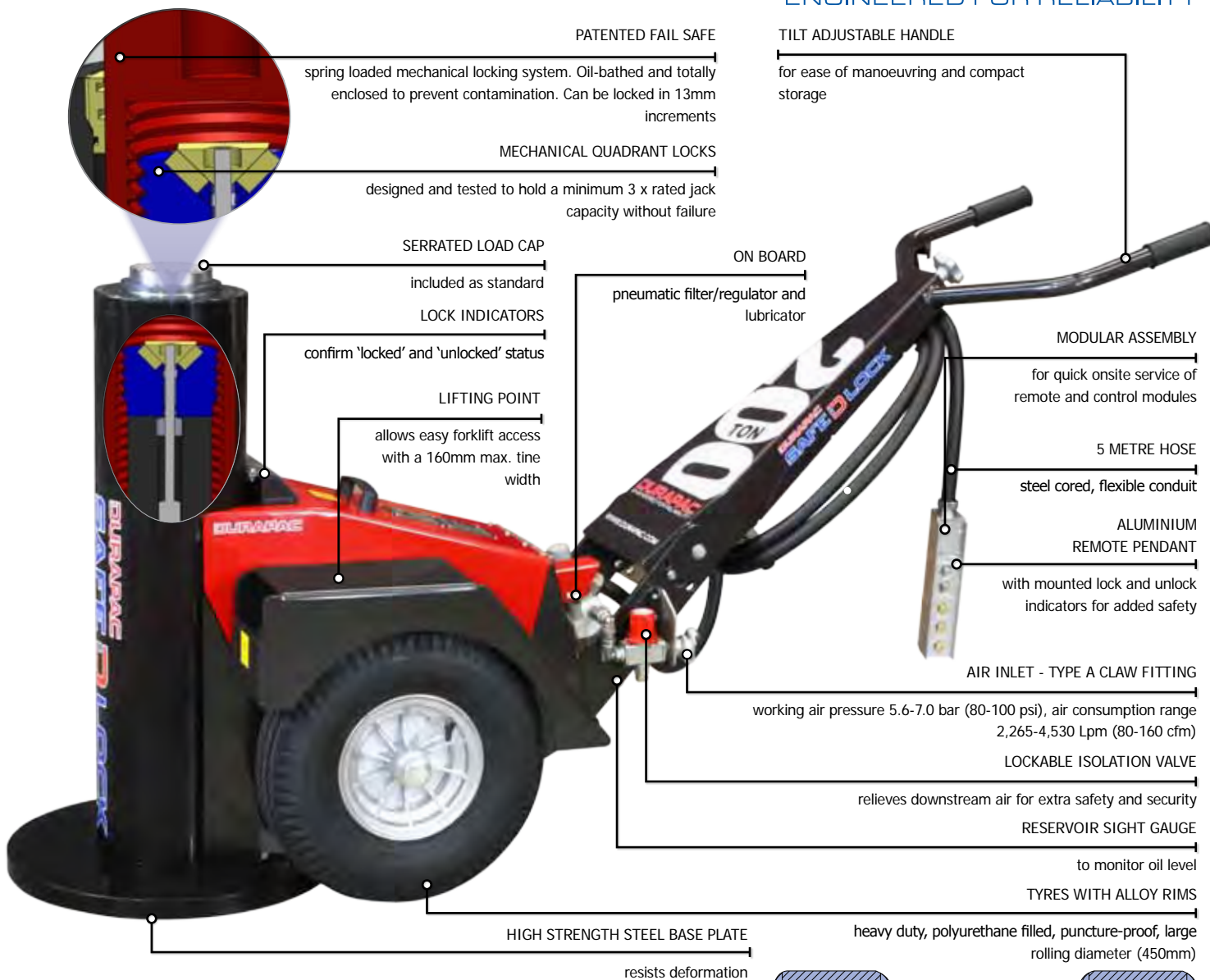
* Nominal Cylinder Capacity in ton - see kN values for actual capacity ** Includes load cap height of 22 mm

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

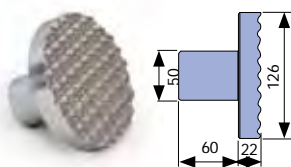
Model Number	A	B
	Collapsed Height (mm)	Base Plate Diameter (mm)
SDL-07068	680	505
SDL-07081	812	505
SDL-10068	680	505
SDL-10081	812	505
SDL-15068	680	460
SDL-15096	960	520



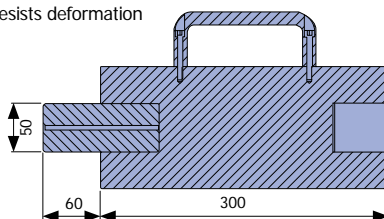
DURAPAC
ENGINEERED FOR RELIABILITY



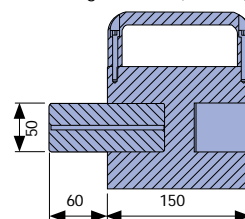
SDS TILT SADDLE



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)
SDE100-150	70/100	150mm Extension**	150	112	210	60	50	7.0
SDE100-300	70/100	300mm Extension**	300	112	360	60	50	13.0
SDLC-100	70/100	Serrated Steel Load Cap*	22	112	82	60	50	3.0
SDS-100	70/100	Serrated Tilt Saddle**	50	112	110	60	50	5.0
SDE150-150	150	150mm Extension**	150	126	210	60	50	7.0
SDE150-300	150	300mm Extension**	300	126	360	60	50	13.0
SDLC-150	150	Serrated Steel Load Cap*	22	126	82	60	50	3.0
SDS-150	150	Serrated Tilt Saddle**	50	126	110	60	50	5.0

* Supplied as standard ** Optional item

ALDON
CO



TRAILER STABILIZERS (MADE IN USA)

Designed solely for use in supporting the front end of semi-trailers.

FEATURES

- Lightweight
- Powder coat finish
- No ratchet head screw to bend, rust or jam (4013-14 & 4013-15)

ADJUSTABLE-HEIGHT SCREW JACK (MODEL NO. 4013-13)



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

FIXED-HEIGHT SCREW JACKS (MODEL NO. 4013-14 & 4013-15)

Most trailers dropped off at a dock are 1168mm (46") above the pavement. Aldon's 1143mm (45") Fixed Height Stabilizers slip in easily under the nose.

To adjust the trailer nose up or down, use lower gear setting of landing legs handle. It takes less than 30 seconds to lower 25mm (1") and less than 10 seconds to raise 6mm (1/4") to remove jacks.



TRAILER STABILIZERS (MADE IN USA)

ALDON
CO



ALWAYS use two jacks at the front of each trailer for good stability. A single jack in the centre will not prevent side-tipping. If one or both of the legs give way, a single jack in front will act as a fulcrum and not be able to overcome the tipping action. Trailer must be secured with dock lock or wheel locks.



1



2



3

SPECIFICATIONS

Model No.	Pic Ref #	Description	Tested Load Capacity* (Tonne)	Height (mm)	Top (mm)	Base (mm)	Weight (kg)
4013-13	1	Adjustable-Height Screw Jack	34.0	1067 - 1168	127	356	24.5
4013-14	2	Fixed-Height Screw Jack	34.0	1143	127	356	20
4013-15	3	Fixed-Height Screw Jack	34.0	1143	127	356	9

* 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.**

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

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

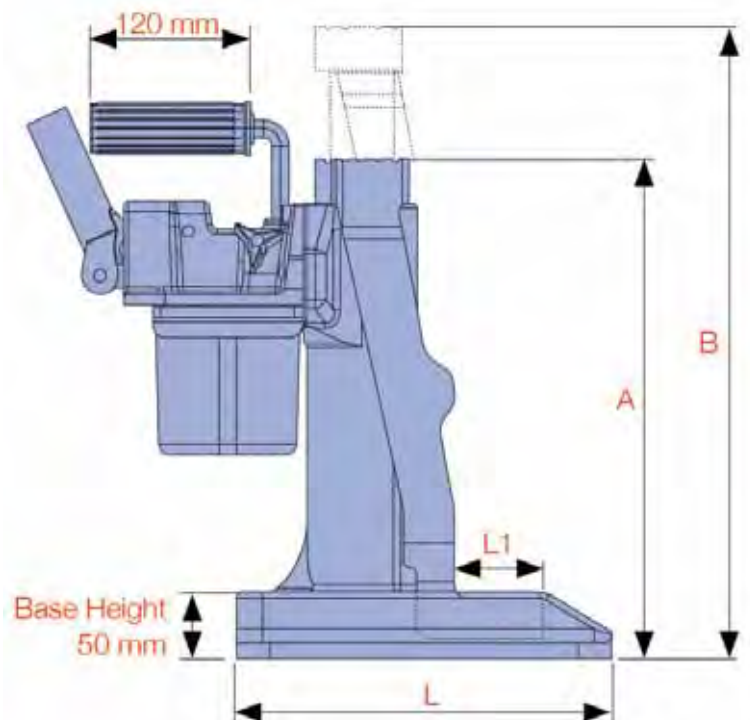
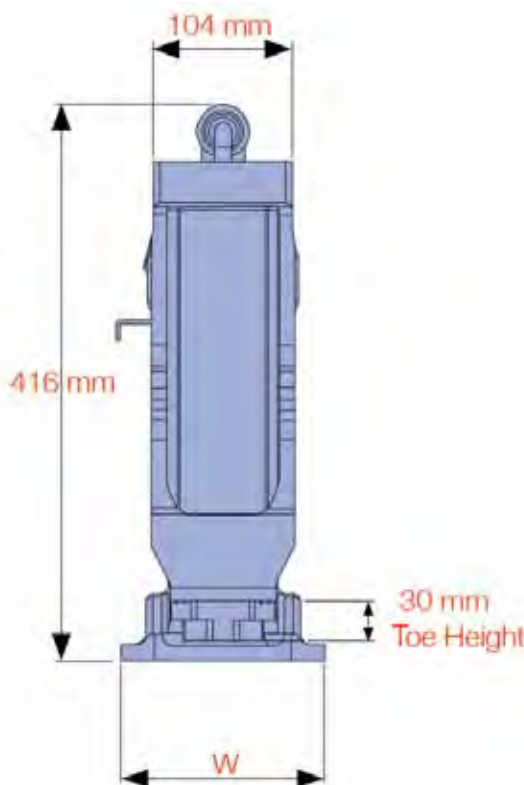
Utilising a forged aluminium upright base this 10 US Ton capacity jack has been designed to be robust, light weight and reduce the risk of operator injury. It has a spring return mechanism that will allow a jack with no load to be returned to the retracted position. The jack is fitted with internal safety pressure relief valve to protect against overloading. The bladder system inside the aluminium protected reservoir allows the jack to be used in both the horizontal and vertical positions making it exceptionally versatile.

DURAPAC
ENGINEERED FOR RELIABILITY



SPECIFICATIONS

Model No.	Capacity (kg)	A Collapsed Height (mm)	Stroke (mm)	B Extended Height (mm)	Travel/Pump Stroke (mm)	Max Handle Effort (kg)	LxW Dimensions (mm)		Unit Wt (w/o handle) (kg)
							Base	Toe	
DRJ-10	9,072	373	225	598	4.5	36	280 x 152	66 x 79	20.2

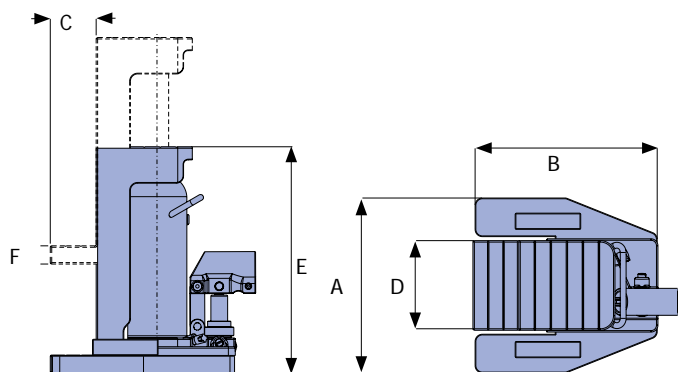


MODEL NO. DTJ SERIES

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

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)
DTJ-2.5	2.5	24.5	126	233	60	50	232	19	110	11.6
DTJ-5	5	49.0	182	259	60	75	282	22	130	22.0
DTJ-10	10	98.0	215	275	63	85	320	28	140	32.0
DTJ-15	15	147.0	238	297	60	85	328	30	140	42.0
DTJ-25	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
- Cylinders
- Hand Pumps
- Electric Hydraulic Power Units
- Air Hydraulic Power Units
- Diesel Power Units
- Hydrostatic Power Units
- System Accessories
- Bolting Solutions
- Pullers
- Bearing Separators
- Hydraulic Cutters
- Maintenance & Repair Kits
- Hydraulic Presses
- Hydraulic Jacks
- Power Lift Air Bags



CONTACT SPECIALISED FORCE FOR YOUR HARD COPY



HYDRAULIC TRACK JACK (MADE IN UNITED KINGDOM)

zwicky

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

Toe Jack

F1527

Toe Jack

F1054

Pan Jack

SB7417

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)
805BR	Toe Jack	Under rail without removal of ballast	42kg & Over	8	5	235 (Head) 95 (Toe)	140	90	18.5
F1527	Toe Jack	Switches & Crossings	42kg Rail & Over	20	15	343 (Head) 191 (Toe)	152	110	36.0
F1054	Pan Jack	Under rail without removal of ballast, Telescopic Ram	-	10	-	95	-	101	16.5
SB7417	Track Aligner	Aligning and slewing of track, points and crossings, Swivel Head	-	8	-	-	-	152	24.2

HYDRAULIC TRACK JACK (MADE IN UNITED KINGDOM)

zwicky



Model No	RB/BR/054	RB/BR/055
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.**

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.



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& PLAY

i

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

RUBBER DIMPLES

on contact surfaces for positive gripping

CROSSHATCH REINFORCING PATTERN

made from Kevlar®

CENTRING CROSS

and printing are brightly coloured and bonded to the rubber for long life

FIREPROOF & ANTISTATIC

for use in underground coal mines (use AB-4 & AB-5 controllers)

1/4"-NPT AIR NIPPLE

is replaceable

REINFORCING EDGE

protects the bag from damage

CAPACITY

800 - 70,400 kg

MAXIMUM LIFTING HEIGHT

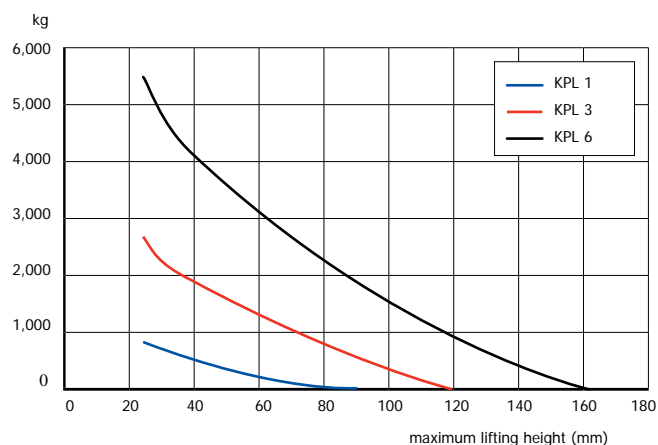
80 - 520 mm

MAXIMUM OPERATING PRESSURE

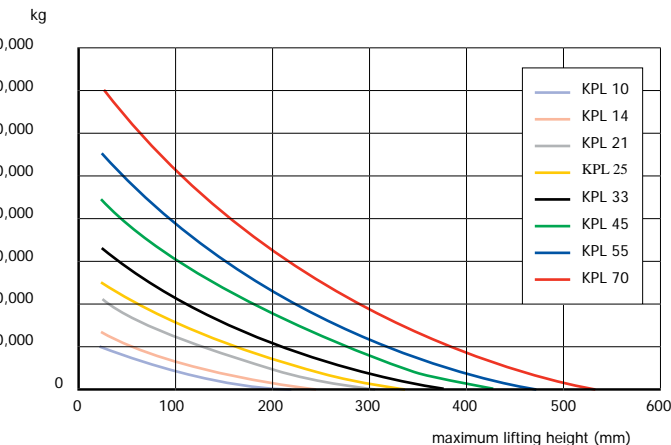
8 bar

LIFTING CAPACITY VS LIFTING HEIGHT GRAPH

maximum lifting capacity



maximum lifting capacity



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)
KPL 1	800	80	25	26	15 x 15	5	8	32	0.55
KPL 3	2,700	130	25	26	22.5 x 22.5	15	8	32	1.25
KPL 6	5,500	160	25	26	30 x 30	42	8	32	2
KPL 10	10,100	210	25	26	38 x 38	86	8	32	3.5
KPL 14	13,500	250	25	26	45 x 45	152	8	32	5
KPL 21	21,100	300	25	26	55 x 55	296	8	32	7
KPL 25	25,200	340	25	26	61 x 61	416	8	32	9
KPL 33	33,000	380	25	26	69 x 69	621	8	32	11
KPL 45	44,600	420	25	26	78 x 78	921	8	32	14
KPL 55	55,000	470	25	26	87 x 87	1,305	8	32	18
KPL 70	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/BLEU/YELLOW ABHR-10, ABHB-10, ABHY-10 10M RED/BLEU/YELLOW

Hoses - available in 5/10m in RED/BLEU/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



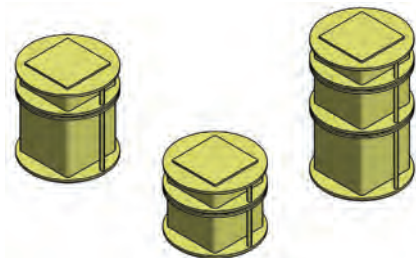
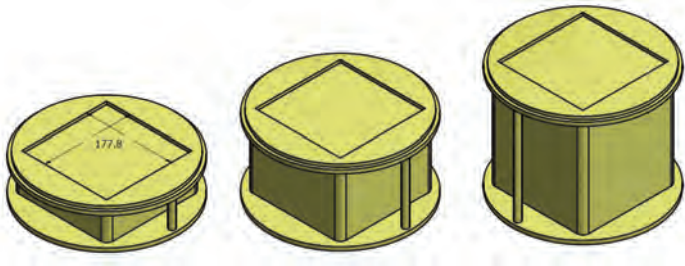
ABV-2

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 unit contains carrying handle



Stacking Examples

Model No	Capacity (Tonne)	Kit Contents	Weight (kg)
15002	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)
15012	76.2	304.8	177.8 x 177.8	17.2
15022	152.4	304.8	177.8 x 177.8	21.3
15032	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)
15255	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
15210	3	101.6 x 101.6 x 457.2	Black
15230	6	152.4 x 177.8 x 609.6	Black
14465	1	305.0 x 305.0 x 38.10	Black



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14465 Jack Plate



Larger Capacity Block Kits Available on Request



SPECIALISED FORCE
HYDRAULIC TOOLS &
SPECIALISED EQUIPMENT
PTY. LTD.

**Electrical,
Winches,
Stringing &
Cable
Laying**



www.specialisedforce.com.au



ELECTRICAL, WINCHES, STRINGING & CABLE LAYING

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ELECTRICAL, WINCHES, STRINGING & CABLE LAYING

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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.
SENYO-A	310 x 90 x 152	20 (3/4")	10	SENYO-A3
SENYO-B	380 x 105 x 180	30 (1 3/16")	15	SENYO-B3
SENYO-C	400 x 120 x 200	40 (1 5/8")	20	SENYO-C3
SENYO-D	485 x 130 x 220	50 (2")	30	SENYO-D3

BOLT CUTTERS (MADE IN JAPAN)

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



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

Model No.	Type	Length (mm)	Cutting capacity, Mild steel, HRB80/50kgf/m2 Copper wire – mmOD	Weight	End view	Spare Jaw Model No.	Weight (kg)
HA-250	Standard	233	4	0.33		N/A	N/A
HA-300		315	5	0.72		HAI-300	0.26
HA-350		365	6	0.95		HAI-350	0.36
HA-450		480	7	1.50		HAI-450	0.58
HA-600		625	10	2.50		HAI-600	1.00
HA-750		770	13	3.80		HAI-750	1.40
HA-900		930	16	5.90		HAI-900	2.10
HA-1050	Bench	1080	18	8.60		HAI-1050	3.10
HA-600BB		540	10	5.00		HAI-600	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
RC-8	RC-SERIES	KC-SERIES	WR-10BB	HSC-SERIES
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)
RC-8	Wire Rope Cutter	195	5	0.3	N/A	N/A
RC-450		470	12	1.5	RCJ-450	0.5
RC-800		800	16	3.9	RCJ-800	1.3
KC-450	Cable Cutter (Cu/Al)*	475	25	1.4	KCJ-450	0.5
KC-800		810	50	3.6	KCJ-800	1.0
WR-6		350	6	0.9	WRJ-6	0.3
WR-10	Wire Rope Cutter	590	10	2.3	WRJ-10	0.7
WR-14		750	14	3.6	WRJ-14	1.2
WR-16		900	16	5.3	WRJ-16	1.6
WR-20		1066	20	8.2	WRJ-20	2.7
WR-10BB	Bench Wire Rope Cutter	540	10	5.0	N/A	N/A
HSC-350	Wire Rope Swager/Cutter ¹	350	1.5–3.5	1.1	N/A	N/A
HSC-600		600	1.5–5.0	2.5	N/A	N/A
HSC-600BB		540	1.5–5.0	5.2	N/A	N/A
HS-1000	Wire Rope Swager**	1010	6.0–8.0	7.5	N/A	N/A

All Blades are drop forged and tempered.

* Not for cutting wire rope

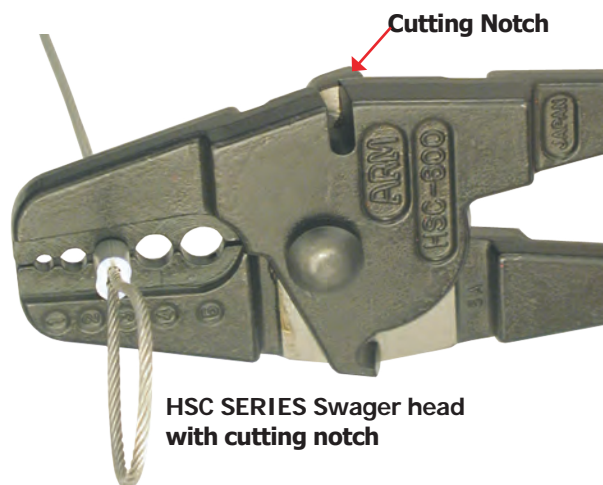
** No cutting function

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**



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 HS12-MH230

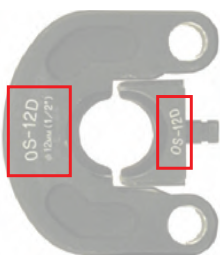
Model No.	HS12-MH230
Battery Voltage (VDC)	14.4
Battery Type	Ni-MH
Size (mm) L x W x H	355 x 90 x 350
Swaging Speed (sec)	7
Accessories (Included in kit)	Tool, 2 x Batteries, 230VAC Charger, Check Gauge, RC-450 Cutter, Dies (OS-6D, OS-8D, OS-9D/10D & OS12D), Die Removing Tool, CD Operational Video & Carry Case

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

Model No.	HS12-230V
Swaging Capacity (mm)	6 – 12mm Wire Rope
Voltage (VAC)	230
Output Force (ton)	11
Weight (kg)	7.5
Dimensions (mm)	433 x 104 x 243
Swaging Speed (sec)	4
Accessories (Included in Kit)	Tool, Check Gauge, Shoulder Strap, RC-450 Cutter, Dies (OS-6D, OS-8D, OS-9D/10D & OS 12D) & Carry Case



HS12-MH230 / HS12-230V Suitable Sleeve & Dies



Suitable Dies	Oval Sleeve	Wire Rope Dia. (mm)
OS-6D	OS-6A	6
OS-8D	OS-8A	8
OS-9D&10D	OS-9A	9
OS-9D&10D	OS-10A	10
OS-12D	OS-12A	12



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REFER ELECTRICAL
CATALOGUE FOR
ARM SWAGING
SLEEVE AND
TOOL TECHNICAL
INFORMATION

MODEL No. IZ-325A (MADE IN JAPAN)



FEATURES

Cut up to 300mm² or 33mm outer diameter Cu Cable.

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



DETAILS

Cutting capacity for Non-ferrous cables only.

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

- Light weight
- Compact
- Clean square cutting
- Easy cutting operation

- Durable construction
- Forged blades
- Reverse operation

SPECIFICATIONS

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

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

MODEL No. 31291 & 12629 (MADE IN USA)



Model No. 31291

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



Model No. 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 ²	70mm ²
Freq Use	35mm ²	35mm ²
Aluminium		
Max Use Capacity CU	70mm ²	70mm ²
Communications		
Max Use Capacity	100 Pair	100 Pair
Length (mm)	235	235
Weight (kg)	0.45	0.45

HAND CUTTERS (MADE IN USA)

MODEL NO. VARIOUS



Greenlee offer a full range of hand cutters for cable cutting, ACSR and steel. Some units are small, lightweight and compact whilst others have long handles to reduce operator effort. In the ACSR and steel range the cutters have a ratchet mechanism. All units feature rubber handle grips depending on the style.

							
10507	24564/05923/22291	30208	12847	02826	34081	34084	01274
Strong, Blade Adjustment Bolt, 24564/05923/22291 Replaceable Heat Treated blades		Economical, Replaceable Heat Treated Blades	Double Joint Reduces Effort by 25%, Steel Handles	2 Speed Mechanism, Blade Opens After Cut Completion	Thick Blades, Ratchet Action, Anti-Slip Mechanism, Heavy Duty		2 Cutting Modes, , Anti-Slip Mechanism

SPECIFICATIONS*

Model No.	Purpose	Feature	Handle (with Rubber Grip)	Jaw Opening Ø (mm)	Frequent Cu	Max Cu	Frequent Al	Max Al	Comms Cable	ACSR	Steel/Guy	EHS Guy	Length (mm)	Wt (kg)
10507	Cable	Lightweight	Fibreglass	25.00	15.75	15.75	-	-	25.00	-	-	-	444	1.3
24564	Cable	Lightweight	Fibreglass	32.00	15.75	15.75	20.25	20.25	32.00	-	-	-	533	1.4
05923	Cable	Lightweight	Fibreglass	44.00	20.25	20.25	28.80	28.80	44.00	-	-	-	648	2.5
22291	Cable	Lightweight	Fibreglass	38.00	25.65	25.65	28.80	28.80	38.00	-	-	-	800	2.8
30208	Cable	Lightweight	Steel	25.00	12.60	15.75	15.75	-	-	-	-	-	457	1.3
12847	Cable	Lightweight	Steel	32.00	15.03	17.96	17.96	17.96	-	-	-	-	457	1.5
02826	ACSR	Ratchet	Fibreglass	17.40	-	-	-	-	-	17.4	-	-	508	2.8
34081	Cable	Ratchet	Steel	50.00	28.80	37.00	28.80	37.00	-	-	-	-	698	5.2
34084	Guy Wire	Ratchet	Steel	30.00	-	-	-	-	-	12.7	12.7	-	743	5.5
01274	Guy Wire	Ratchet	Steel	12.70	-	-	-	-	-	12.7	12.7	12.7	704	4.8

* Cutting capacities in "mm OD" refer to conductor OD sizes.
For compact and compressed cables capacity may be less.



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)
S-200	Snap	Rebar	1	20	20	20	20	16	16-20	16	13	10	-	20	3.0
S-240	Snap	Rebar	1	24	24	24	24	20	18-24	16	20	12.4	-	24	4.9
S-320	Snap	Rebar	2	32	32	32	32	32	32	25	25	15.5	-	32	10.8
S-400	Pin	Rebar	2	41	41	41	38	15-20	22-25	20	16	12.4	-	41	5.9
S-550	Pin	Rebar	2	54	54	54	54	15-20	25-30	22	20	13	-	54	9.3
850	Pin	Cu/Al	2	85	28	38	-	-	-	-	-	-	-	85	8.1
S-240CC	Snap	Chain	1	16	-	-	-	16	-	16	16	9	6	-	5.0
S-32CC1	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



BATTERY HYDRAULIC CUTTERS (MADE IN JAPAN)



MODEL NO. VARIOUS

The REC & SLS series of battery operated hydraulic cutting tools were designed for power cables and conductors, with some models capable of cutting steel and rebar. Three main styles are available: "pistol" and "inline" versions are well balanced and preferred for Overhead and Switchboard applications where the basket style is favoured for Underground and repetitive tasks. The trigger switch and return button are easily activated with one hand so that other hand always free to align working material. The blue and black cases identify the new series 6 tools and some models feature new electronic circuit boards, improved motors, LED illumination and battery capacity indication.



REC-54ACM



REC-54M



REC-Y33M



REC-630Y



REC-105YC



SLS-20



REC-S624



REC-S640



REC-S3550

To order complete kits with tool, two batteries, AC/DC charger and case use below table Model No.

FEATURES

- AC/DC Charger Included
- Ergonomic design
- 14.4VDC Lithium-Ion Batteries
- Lithium-Ion Batteries with Charge Indicator
- Swivel Heads (excluding ratchet types & REC-Y33M)
- Quality ISO9001

SPECIFICATIONS

Model No.	Style	Cutting Material	Opening Ø (mm)	Cu	Al	Hard Cu	ACSR	Steel/Guy	Rebar (400 to 500Mpa)	Rebar (650Mpa)	Notes	Weight Including Battery (kg)
REC-54ACM(BB)	Ratchet	Al/Cu	54	50.0	50.0	21.0	-	-	-	-	-	2.75
REC-54M(BB)	Ratchet	ACSR	54	21.0	31.0	-	14.3*	-	-	-	*Max Cherry 7/1.60	3.10
REC-Y33M(BB)	Scissor	Al/Cu/ACSR	32	32.0	32.0	-	18.0	-	-	-	-	3.10
REC-630Y(BB)	Scissor	Al/Cu/ACSR	28	28.0	28.0	-	19.0*	-	-	-	*Single Steel Strand	5.00
REC-105YC(BB)	Scissor	Al/Cu	105	105.0	105.0	90.0	-	-	-	-	-	8.75
SLS-20(BB)	Guillotine	Al/Cu/ACSR/St	20	20.0	20.0	20.0	20.0	16.0	12.0	10	-	2.75
REC-S624(BB)	Guillotine	Al/Cu/ACSR/St	24	24.0	24.0	20.0	24.0	20.0	16.0	12	-	5.00
REC-S640(BB)	Guillotine	Al/Cu/ACSR/St	40	40.0	40.0	32.0	38.0	20.0	16.0	9.6	-	6.40
REC-S3550(BB)	Guillotine	Al/Cu/ACSR/St	54	54.0	54.0	40.0	54.0	22.0	16.0	13	-	10.00


Refer page 200 for battery and charger details


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



**CUTS
IN
4.5SEC**




GREENLEE.
A Teatronics Company



WIEIGHT
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
52136	Battery Bolt Cutter and 2 Batteries with 220VAC Charger & Carry Case

CUTTING CAPACITY

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

REPLACEMENT PARTS

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

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.



*SP32CC1

SP-20A	SP-24	SP-32	SP-40A	SP-55A	P-60	P-85	P-132
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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 (550Mpa)	Comms	Hyd Pressure (bar)	Weight (kg)
SP-20A	Snap	20	20	20	20	15-16	16-20	16	13	10	20	700	2.3
SP-24	Snap	24	24	24	24	20	18-24	20	16	12.4	24	700	3.10
SP-32	Snap	32	32	32	32	32	32	25	25	15.5	32	700	10.00
SP-32CC1	Snap	32	N/A	N/A	20	16	20	24	25	15.5	N/A	700	9.00
SP-40A	Pin	41	41	41	38	15-20	22-25	20	16	12.4	41	700	4.00
SP-55A	Pin	55	50	50	50	15-20	25-30	22	19	12.4	55	700	9.00
P-85	Pin	85	28**	38**	-	-	-	-	-	-	85	700	7.20
P-60	Pin	60	60	60	-	-	-	-	-	-	60	700	5.20
P-132	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 107–108 for hydraulic pumps details

CR SERIES HYDRAULIC CABLE CUTTERS



Model No. CR-75



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



Model No. CR-100



Model No. CR-150C



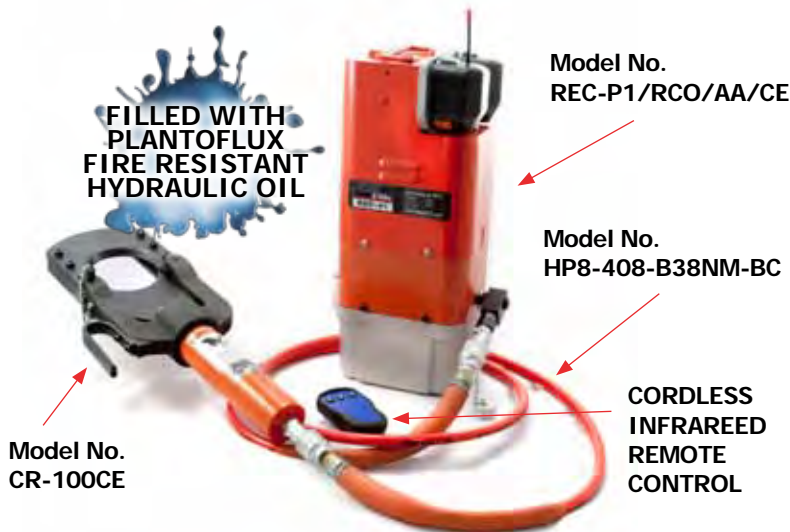
Model No. CR-75/100/150 size comparison

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

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

- Refer page 100 for hydraulic coupling configurations and hoses, supplied standard with screw type female 3050-3 coupling
- Battery or Electric pumps, refer pages 107–108

INFRARED REMOTE CONTROLLED SAFETY CUTTING SYSTEM



ITEMS SOLD SEPERATELY, REFER TABLE BELOW

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

SPECIFICATIONS

For cutting or cable spiking of cables up to 100mmOD.

FEATURES

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

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

ACCESSORIES

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

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

Refer page 200 for battery & charger details



CR-100CE



CUTTING HEAD

FORCE

107kN

CAPACITY

100mm Blade Opening

PUMP

PRESSURE

700Bar @ 0.17L/min

RESERVOIR

1.2L

HOSE LENGTH

8m

POWER SOURCE

Battery 2 x BP-80Li 14.4VDC



Model No. CR-100EK



EARTHING KIT CONTENTS

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

BATTERY HYDRAULIC CRIMPERS (MADE IN JAPAN)



MODEL NO. REC SERIES

The REC Series battery operated 12 tonne compression tools accept 12 tonne standard dies. Used for applying lugs and compression fittings to copper cables, aluminium and ACSR conductors. The pistol versions are well balanced and preferred for Overhead and Switchboard applications whereas the basket style is preferred for Underground and repetitive tasks. The trigger switch and return button are activated by only one hand so that other hand always free to hold working material. New electronic circuit board with LED indicates compression status and battery capacity.



REC-6431



REC-6510



REC-3430



REC-3510A



REC-H6130

To order complete kits with tool, two batteries, AC/DC charger and case use below table Model No.

FEATURES

- AC/DC Charger Included
- 14.4VDC Lithium-Ion Batteries
- Ergonomic design
- Lithium-Ion Batteries with Charge Indicator
- Swivel Heads
- Quality ISO9001

SPECIFICATIONS

Model No.	Style	Force (Tonne)	Capacity (mm ²)		Approx Crimps per Charge	Wt Inc Battery (kg)
			Aluminium	Copper		
REC-6431(BB)	Pistol "C"	12	300	300	75	5.8
REC-6510(BB)	Pistol "C"	12	300	400	75	6.7
REC-3430(BB)	Basket	12	300	400	68	8.4
REC-3510A(BB)	Basket	12	300	300	68	9.3
REC-H6130(BB)	Pistol "U"	12	300	300	75	6.5

Refer page 200 for battery and charger details

Refer pages 204–205 for 12T dies

MODEL No. REC-6200MX

Fitted with 200AT-410 12 Tonne Crimp Head

HEAD RELEASE PIN

EASY PULL PIN TO
CHANGE HEADS

SPECIFICATIONS

Motor	14.4 VDC
Reservoir Capacity	100 cc
Force at Die Face	127 kN
Head Rotation	180°
Size (mm)	356 x 326 x 70 (LxHxW)
Weight	5.8kg with BP-80LI Battery (without crimp head)

Crimp Head Attachment

- Accepts existing 12 ton U-type dies
- Maximum Capacity 300mm2 Al/Cu

PLEASE NOTE: Add (BB) to the model number suffix for lithium-ion batteries e.g. **REC-6200MX (BB)**

Includes: Battery Tool, Shoulder strap, Carrying case, 2 Batteries (BP-80LI) and 12VDC-230VAC Charger (CH-100)



(*SIX TOOLS IN ONE - WITH ACCESSORY HEADS, INTERCHANGEABLE HEADS NOT INCLUDED)

Refer page 200 for Battery and Charger Details
Refer pages 204–205 for 12T Dies

MODEL No. 200AT-410 12 Tonne
Crimp Head attachment to suit
REC-6200MX

Opening Between Die Faces	17mm
Maximum Capacity	300mm2 Al/Cu
Weight	2.4kg

Accepts existing 12 ton U-type dies (Refer page 204–205)



MODEL No. 200AT-50YC Cable Cutter
attachment to suit REC-6200MX

Cutting Capacity	Up to 50mm OD Cable (Including Insulation) Cuts nonferrous cables only
Weight	1.0kg

Approximately 50 cuts BP-80LI



Continued Next Page



**MODEL No. 200AT-AP18 Angle Steel
Puncher attachment to suit
REC – 6200MX**

Punching Capacity	Supplied with 3 sets of Punch Dies 10.5, 13.5 & 17.5 mm Diameter for 6mm thick steel
Size	186 x 130 x 67 mm
Weight	3.8 kg
Throat Depth	47mm
To Centre of Punch	23.5mm

Approximately 100 holes punched per charge



**MODEL No. 200AT-S16 Re-bar and Guy
Strand Cutter attachment to suit
REC – 6200MX**

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



**MODEL No. 200AT-13WT Threaded rod
cutter attachment to suit
REC – 6200MX**

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

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



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

**MODEL No. 200AT-9PD Knock out
Puncher attachment to suit
REC-6200MX**

Punching Capacity	Up to 63.5mm Stainless Steel and (115.5mm) diameter hole on 3.2mm thickness Mild Steel.
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Approximately 42 Holes BP-80LI

DETAILS

- Punch & die, Draw Studs & Spacer Collars are the same as those used for SH-10. Refer page 271 for punch & dies
- 200AT-9PD comes with Draw Studs & Spacer Collars.

BATTERIES AND CHARGER

Battery Level LED Indicator



MODEL No. BP-80LI BATTERY

FEATURES

SUITS ALL IZUMI BATTERY TOOLS

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



230V BATTERY CHARGER ADAPTOR



12V BATTERY CHARGER ADAPTOR



MODEL No. CH-100 CHARGER

FEATURES

CHARGES ALL IZUMI BATTERIES

- Includes AC/DC charging base with AC/DC leads
- Able to Charge all Izumi Batteries (Li-Ion, Ni-MH & Ni-CAD)
- Charger has conditioning feature to accommodate memory effect
- Top-off & Maintenance trickle charge for NiCad Batteries
- Monitors battery temperature & Battery Voltage for correct Charging and battery faults
- 80% charge in 50mins

New Li-Ion batteries fit straight into all Izumi tools! Buy the # BP-80LI UPGRADE PACK (below) and just dispose of your old charger as your old charger will not charge new batteries!

Model No.	Components	Voltage/Source	Wt
BP-80LI	1 x Battery Only	14.4VDC	600g
CH-100	1 x Charging Base, 1 x DC Charge Lead 12/24VDC 1 x AC Charge Lead 230VAC	230VAC/12/24VDC	975g
BP-80LI UPGRADE PACK	1 x Charge Base 1 x Charge Lead DC 1 x Charge Lead AC 2 x BP-80LI Li-Ion Batteries (14.4VDC)	230VAC/12/24VDC	2115g

IMPROVING BATTERY LIFE

(For Older Style BP-70MH + BP-70E)
Izumi batteries should regularly be cycle refreshed. This is certainly required if your battery is not quite performing as well as it used to.

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



MODEL NO. 79300060

230VAC ADAPTOR

MODEL NO. PG-610B FORCE TEST GAUGE (12-15T)



Model No.
PG-610B
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.

MANUAL CRIMPER 12 TONNE



EP-431



FORCE
12 Tonne Type

JAW OPENING
31mm C-HEAD

CAPACITY
300mm² Al/Cu

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



MAX
300mm²

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.





EP-510C

FITTED WITH A RUBBER BOOT FOR ADDED ELECTRICAL PROTECTION



FORCE
12 Tonne Type

JAW OPENING
42mm C-HEAD

CAPACITY
300mm² AL & 400mm² CU

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



MAX
400mm²

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 204–205 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.



EP-431H	EP-510HC	EP-H130H	EP-610HS2
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 ²)		Hydraulic Pressure (bar)	Length (mm)	Wt (kg)
				Cu	Al			
EP-431H	12	"C" Standard	31	300	300	700	340	4.7
EP-510HC	12	"C" Large	42	400	300	700	420	5.7
EP-H130H	12	"H" Standard	28	300	300	700	317	4.1
EP-610HS2	15	"C"	50	630 400*	500 300*	700	375	7.0

* Using 12T Die Adaptor (#15T-PU-ADAPTOR)

Refer page pages 204–205 for 12T crimp die details / Refer page 107–108 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 ²	A/F	Material	Crimp Width
15T-26.0AFCU	300	26.0	CU	10.5mm
15T-28.1AFCU	400	28.1	CU	8.5mm
15T-31.0AFCU	500	31.0	CU	7.2mm
15T-37.0AFCU	630	37.0	CU	6.2mm
15T-39.0AFAL	400/500	39.0	AL	16.5mm
Model No.	Description			
15T-PU-ADAPTOR	PICK UP ADAPTOR TO SUIT STANDARD 12TONNE DIES			

DIES ALUMINIUM 12-13 TONNE

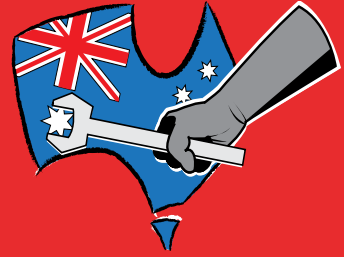
Suitable for ALL brands of 12/13T Battery, Manual & Remote Head Hydraulic Compression Tools

Model No.	Hex A/F	Length Of Crimp Face	Conductor Details	
Aluminium				
12T-9.0AFAL	9.0 mm	22.0 mm	6-35 mm2	
12T-13.2AFAL	13.2 mm	22.0 mm	50-70 mm2	
12T-17.3AFAL	17.3 mm	22.0 mm	95-120 mm2	
12T-21.0AFAL	21.0 mm	18.0 mm	150-185 mm2 UTILUX	
12T-22.0AFAL	22.0 mm	18.0 mm	150-185 mm2 CABAC	
12T-28.4AFAL	28.4 mm	18.0 mm	240-300 mm2	
Overhead				
12T-14.0AFAL	14.0 mm	22.0 mm	7/2.25 UTILUX	
12T-14.5AFAL	14.5 mm	22.0 mm	7/2.50	
12T-18.0AFAL	18.0 mm	22.0 mm	7/3.00 & 7/3.75 CABAC	
12T-18.3AFAL	18.3 mm	22.0 mm		
12T-19.0AFAL	19.0 mm	22.0 mm	7/4.50 CABAC	
12T-22.0AFAL	22.0 mm	18.0 mm	19/3.25 CABAC	
12T-26.2AFAL	26.2 mm	18.0 mm	19/3.75 CABAC	
12T-30.3AFAL	30.3 mm	18.0 mm	19/4.75	
ABC				
12T-14.0AFALABC	14.0 mm	9.0 mm	25 mm2 ABC	
12T-17.3AFALABC	17.3 mm	9.0 mm	35 – 70 mm2 ABC	
12T-21.5AFALABC	21.5 mm	9.0 mm	95 – 150 mm2 ABC	
12T-25.0AFALABC	25.0 mm	8.0 mm	ABC	
Specials				
12T-7.7AFAL	7.7 mm	25.0 mm		
12T-16.5AFAL	16.5 mm	22.0 mm		
12T-21.5AFAL	21.5 mm	18.0 mm		
12T-24.9AFAL	24.9 mm	18.0 mm		
12T-30.0AFAL	30.0 mm	18.0 mm		
Steel				
12T-7.5AFST	7.5 mm	10 mm	INNER STEEL (ACSR)	
12T-9.5AFST	9.5 mm	10 mm	INNER STEEL (ACSR)	
Nest & Indent Sizes For “UG” Aluminium Sector Cable				
Conductor Size	3 Core		4 Core	
	Nest	Indent	Nest	Indent
70mm ²	12T-12NEST	12T-INDENT14	12T-14NEST	12T-INDENT14
95mm ²	12T-12NEST	12T-INDENT15	12T-14NEST	12T-INDENT15
120mm ²	12T-12NEST	12T-INDENT16	12T-14NEST	12T-INDENT16
150mm ²	12T-12NEST	12T-INDENT17	12T-15NEST	12T-INDENT17
185mm ²	12T-12NEST	12T-INDENT18	12T-15NEST	12T-INDENT18
240mm ²	12T-12NEST	12T-INDENT19	12T-15NEST	12T-INDENT19
300mm ²	12T-12NEST	12T-INDENT20	12T-15NEST	12T-INDENT20

CUTTING DIE	Description
12T-CUTTINGDIE	Guy Wire/Guy Strand/ EHS Guy Wire, ACSR/AL/CU Ground Rod & Soft Steel Bolts (Refer page A19 for details)
	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

"AUSTRALIAN MADE"



MANUFACTURED IN AUSTRALIA FROM HIGH TENSILE STEEL BILLETS & HEAT TREATED TO MAXIMISE STRENGTH & DURABILITY



STEEL STORAGE BOX WITH FOAM INSERT

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



PLASTIC STORAGE BOX ALSO AVAILABLE

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



DIES COPPER 12-13 TONNE

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

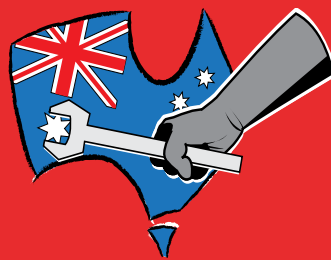
Model No.	Hex A/F	Length Of Crimp Face	Conductor Details
Copper			
12T-4.4AFCU	4.4 mm	6.35 mm	6 mm ²
12T-5.7AFCU	5.7 mm	6.35 mm	10 mm ²
12T-6.3AFCU	6.3 mm	17.5 mm	16 mm ² **
12T-7.7AFCU	7.7 mm	17.5 mm	25 mm ² **
12T-9.2AFCU	9.2 mm	17.5 mm	35 mm ² **
12T-10.4AFCU	10.4 mm	17.5 mm	50 mm ² **
12T-11.5AFCU	11.5 mm	17.5 mm	70 mm ² **
12T-14.2AFCU	14.2 mm	17.5 mm	95 mm ² **
12T-16.5AFCU	16.5 mm	14.0 mm	120 mm ² **
12T-18.3AFCU	18.3 mm	14.0 mm	150 mm ² **
12T-20.0AFCU	20.0 mm	14.0 mm	185 mm ² **
12T-23.1AFCU	23.1 mm	10.0 mm	240 mm ² **
12T-26.0AFCU	26.0 mm	10.0 mm	300 mm ² **
12T-28.1AFCU	28.1 mm	8.0 mm	400 mm ²
Die Sets ** Indicates Dies Included In the Sets Below			
12T-CUSET-MB	16mm ² to 300mm ² (11 Dies)		Metal Case
12T-CUSET	16mm ² to 300mm ² (11 Dies)		Plastic Case
12T-CUSET-MB400	16mm ² to 400mm ²		Metal Case
12T-CUSET400	16mm ² to 400mm ²		Plastic Case
Overhead			
12T-8.3AFCU	8.3 mm	9.0 mm	7/1.63 & 7/1.70
12T-9.6AFCU	9.6 mm	9.0 mm	7/2.00 & 7/2.03
12T-11.5AFCU	11.5 mm	9.0 mm	7/2.62
12T-13.0AFCU	13.0 mm	17.5 mm	37/.064 19/2.11
12T-14.8AFCU	14.8 mm	9.0 mm	19/2.0 & 19/2.11
12T-19.3AFCU	19.3 mm	14.0 mm	19/2.57
Copper Screen			
12T-12.7AFCU	12.7 mm	14.0 mm	185mm ² TRIPLEX
12T-7.5AFCU	7.5 mm	16.0 mm	35mm ² TRIPLEX
Specials			
12T-8.7AFCU	8.7 mm	17.5 mm	SPECIAL



CUTTING DIE	Description
12T-CUTTINGDIE	Guy Wire/Guy Strand/ EHS Guy Wire ACSR/AL/CU Ground Rod & Soft Steel Bolts next line; (Refer page A19 for details)
	16mm (5/8") 17.5mm 16mm (5/8")

• Refer to SF Electrical Catalogue for Copper "C" Connector Dies

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AUSTRALIA FROM
HIGH TENSILE
STEEL BILLETS &
HEAT TREATED TO
MAXIMISE STRENGTH
& DURABILITY**



**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**





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	Model No.	KK06AU
Crimp Range	6, 10, 16, 25, 35 & 50mm ²	Crimp Range	6, 10, 16, 25, 35, 50, 70, 95 & 120mm ²
Weight	1.35kg	Weight	3.75kg
Total Length	400mm	Total Length	665mm



MODEL NO. EP-250H

SPECIFICATIONS

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

FEATURES

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

DETAILS

- See below for available Dies, Special Die Sizes available upon request
- Adaptor die to accept standard 12 tonne shell-type dies available (Model No. 25T-12T)
- Full range of hand, foot, air /hydraulic electric & battery pumps are available
- Alternative hydraulic coupling types available upon request
- 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



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ALUMINUM DIES

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

COPPER DIES

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

ACSR DIES

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

STEEL INNER DIES

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

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

- Refer page 100 for hydraulic coupling configurations and hoses, supplied standard with screw type female 3050-3 coupling
- Battery or Electric pumps, refer page 107–108

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 ²)	800mm ² Cu / 630mm ² 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 ²)	Crimp Length (mm)	Die Length (mm)
55T-28.3AFAL	28.3	240/300	50	50
55T-39.0AFAL	39.0	400/500	50	50
55T-43.2AFAL	43.2	630	50	50

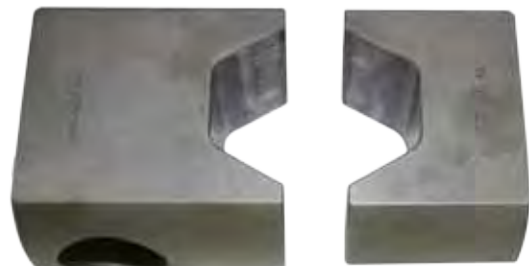
COPPER DIES

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




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 page 107–108

- ELECTRICAL






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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

ADVANTAGES

- Light
- Powerful
- Portable
- Reliable
- Durable
- Rugged
- Tireless
- Simple
- Safe
- Compact
- Constant
- Quickly Attach
- Unlimited Length of Rope
- Smart



PORTABLE WINCH UNIQUE FEATURES

LIGHT AND PORTABLE	One can carry it where it is needed
HIGH-PERFORMANCE	Constant pulling power and many variants of power and speeds depending on the engine and drum selected.
AUTONOMOUS	Since the winch is equipped with a petrol-powered engine, no external energy source is required.
RELIABLE	A Honda engine will start, no matter what.
ENDURING	Highest quality components ensure continuous use and long life.
SIMPLE	Once the winch is anchored, you need only to wrap the rope around the drum and pull.
SAFE	The operator is never standing in the pulling axis.
UNLIMITED ROPE LENGTH	Thanks to the capstan principle, the rope does not accumulate on the drum but merely goes through.
SYNTHETIC ROPE	No more wire rope! Polyester ropes have low stretch properties and are very comfortable to work with.
QUICK ANCHORING	Anchor your winch to anything in a few seconds.



PORTABLE WINCH PRODUCT STANDARDS – DECLARATION OF CONFORMITY

WINCHES PCW5000, PCW3000, PCT1800, PCH1000, PCH2000

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** and **PCH2000** 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 labeled 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.

PULLEYS

Pulleys **PCA-1271, PCA-1272, PCA-1292** are designed, manufactured and tested according to **EN 12278:2007 Mountaineering Equipment- Pulleys- Safety Requirements and Test Methods**. They meet the requirements of **Personal Protective Equipment Directive 89/686/CE** and are certified by an independent body.



PORTABLE CAPSTAN WINCH - OVERVIEW



PCW3000



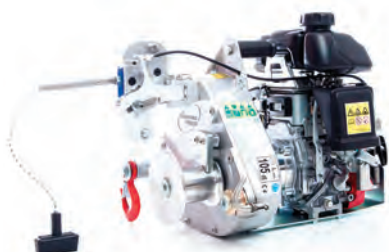
PCW5000



PCW5000-HS



PCW-3000-Li-AIK



PCH1000



PCH2000



PCT1800-50HZ-P-230V

Watch the Portable Winches in Action on our YouTube Channel



PORTABLE CAPSTAN WINCH - OVERVIEW



Model No.	Max. Pull* (kg)	Rated Lift Capacity* (kg)	Max. Pulling Speed* (m/min)	Voltage	Weight (kg)
 PCW3000	700	-	10	-	9.5
 PCW-3000-Li-AIK**	700	-	SPEED 1: 8.1 SPEED 2: 10 SPEED 3: 11.6	BATTERY: 82V 4AH	9.5
 PCW5000	1000	-	12	-	16
 PCW5000-HS	500	-	24	-	16
 PCH1000	775	250	12	-	19
 PCH2000	1000	450	22	-	34.5
 PCT1800-50HZ-P-230V	1000	250	4.8	230/50 VAC/Hz	27

*Ratings based on use with standard size drum.

**See page 133 for full kit option - PCW-3000-Li-AIK(B)

PORTABLE CAPSTAN WINCH – SPECIFICATIONS



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PORTABLE CAPSTAN WINCH – SPECIFICATIONS

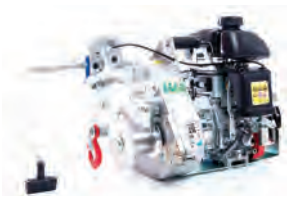




Model No.	PCW3000	PCW-3000-Li-AIK	PCW5000	PCW5000-HS
Designed for Pulling	Yes			
Designed for Lifting	No			
Engine/Motor & Gear Box				
Engine/Motor	Honda 4-stroke GX-35 cc (All Positions)	1.0kW Electric Engine*	Honda 4-stroke GXH-50 cc	
Gear Box and Gears	Aluminium alloy gear box. Heat treated 3 stag spur gears. Shafts mounted on ball bearings. Oil bath lubrication.			
Gear Ratio	200:1		110:1	53:1
Brake	Anti-reversing needle bearing			
Clutch	No clutch – Direct Drive			
Drum turns with Engine Idling	Yes			
Work Cycle	Continuous	Battery Life: 70 min Approx.	Continuous	
Capstan Drums				
Installed	76mm		57mm	85mm
Optional	–		85mm	57mm
Performance				
Max. Pulling Force				
57mm Drum	–	–	1000 kg	500 kg
85mm Drum	–	–	700 kg	350 kg
76mm Drum	700 kg	700 kg (Peak 1000 kg)	–	–
Rated Lifting capacity				
57mm Drum	Not designed for lifting			
85mm Drum				
Max. Pulling Speed				
57mm Drum	–	–	12m/min	24m/min
85mm Drum	–	–	18m/min	36m/min
76mm Drum	10m/min	11.6m/min	–	–
Rope				
Rope Grabbing System	No			
Type	Low stretch double braided polyester – unlimited length – Eye splice and thimble mandatory for lifting applications			
Recommended Diameter	10mm		12mm	
Minimum Diameter	10mm			
Maximum Diameter	16mm			
Weight & Dimensions				
Weight (Dry)	9.5 kg		16 kg	
Length	28.9cm	31.8cm	36.2cm	
Width	35cm	30.2cm	37.1cm	
Height	26.1cm	31cm	36.1cm	
Other				
Certification	CE	CE & IPX6	CE	
Classification (ISO) Lifting	–			
Anchor				
Included	Polyester sling 60mm x 2m (PCA-1260)			
Optional	Full line of accessories			
Warranty				
Private Use	2 years		5 years	
Commercial Use	1 year	3 months	1 year	
Bonus Warranty	Register your winch at www.portablewinch.com and get 1 EXTRA YEAR of warranty for FREE			

* Battery: Briggs & Stratton 82V 4AH (See Page 132 for Battery & Charger)



PORTABLE CAPSTAN WINCH – SPECIFICATIONS

			
Model No.	PCH1000	PCH2000	PCT1800-50HZ-P-230V
Designed for Pulling	Yes		
Designed for Lifting	Yes		
Engine/Motor & Gear Box			
Engine/Motor	Honda 4-stroke GXH-50 cc	Honda GX-160 cc	AC Electric Baldor TEFC 230 VAC – 1ph – 3/4HP – 50HZ
Gear Box and Gears	Aluminium alloy gear box. Heat treated 3 stag spur gears. Shafts mounted on ball bearings. Oil bath lubrication.		
Gear Ratio	110:1	53:1	110:1
Brake	Anti-reversing needle bearing	Double one way bearing	Anti-reversing needle bearing
Clutch	Centrifugal		No clutch – Direct Drive
Drum turns with Engine Idling	No		No idle on electric motors
Work Cycle	Continuous		25% (15 min/hour to prevent motor overheating)
Capstan Drums			
Installed	57mm	108mm	85mm
Optional	85mm	–	57mm
Performance			
Max. Pulling Force			
57mm Drum	775 kg	Not available – use only with 108mm drum	1000 kg
85mm Drum	540 kg		820 kg
108mm Drum	–	1150kg	–
Rated Lifting Capacity			
57mm Drum	250 kg	Not available – use only with 108mm drum	250 kg
85mm Drum	175 kg		250 kg
108mm Drum	–	450kg	–
Max. Pulling Speed			
57mm Drum	12m/min	Not available – use only with 108mm drum	4.8m/min
85mm Drum	18m/min		7.2m/min
108mm Drum	–	22m/min	
Rope			
Rope Grabbing System	Yes – can be disabled		
Type	Low stretch double braided polyester – unlimited length – Eye splice and thimble mandatory for lifting applications		
Recommended diameter	12mm		
Minimum diameter	12mm		
Maximum diameter	13mm		
Weight & Dimensions			
Weight (dry)	19 kg	34.5 kg	27 kg
Length	50.5cm	45.8cm	55.6cm
Width	37.1cm	56cm	36.6cm
Height	36.1cm	35.6cm	36.6cm
Other			
Certification	CE		
Classification (ISO) Lifting	M3		
Anchor			
Included	Polyester sling 60mm x 2m (PCA-1260)		
Optional	Full line of accessories		
Warranty			
Private use	2 years		
Commercial use	1 year		
Bonus warranty	Register your winch at www.portablewinch.com and get 1 EXTRA YEAR of warranty for FREE		

PORTABLE CAPSTAN WINCH – ACCESSORIES REFERENCE CHART



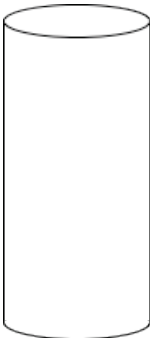


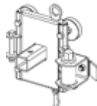










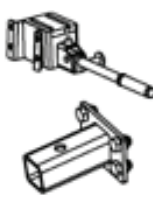





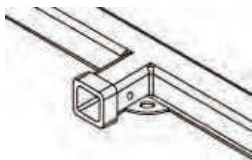







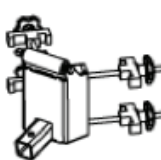







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ANCHORING ACCESSORIES REFERENCE CHART					USE		WINCH MODELS								
ANCHOR POINTS		ANCHOR ACCESSORIES			PULLING	LIFTING	PCW3000 PCW-3000-Li-AIK	PCW5000	PCW5000-HS	PCH1000	PCH2000	PCT1800			
	Cylindrical (tree, pole, post, etc.)	PCA-1258, PCA-1259 or PCA-1260			●		●	●	●	●	●	●			
		PCA-1269			●		●	●	●						
			+ PCA-1268		●		●	●	●						
			+ PCA-2264			●						●			
			+ PCA-1264			●					●		●		
+ PCA-1332 + PCA-2264										●					
		PCA-1263	+ PCA-1332 + PCA-1264		●		●	●	●	●		●			
 Vehicle	With tow ball	48mm to 59mm diameter		PCA-1261		●		●	●	●					
			50mm diameter	PCA-1261		●		●	●	●					
				+ PCA-1268		●		●	●	●					
				+ PCA-2264			●						●		
				+ PCA-1264			●					●		●	
	+ PCA-1332 + PCA-2264				●		●	●	●	●	●		●		
			PCA-1266 + PCA-1265	+ PCA-1264		●		●	●	●					
		Hitch for square tube of 50.8mm (2") opening		PCA-1267 or PCA-1501	+PCA-1268		●		●	●					
				+ PCA-2264			●						●		
				+ PCA-1264			●					●		●	
+ PCA-1332 + PCA-2264												●			
+ PCA-1332 + PCA-1264					●		●	●	●	●	●			●	
	Pylon (with 90° "V" shaped legs)		PCA-1806	+ PCA-1268		●		●	●	●					
			+ PCA-2264			●						●			
			+ PCA-1264			●					●		●		
			+ PCA-1332 + PCA-2264										●		
			+ PCA-1332 + PCA-1264		●		●	●	●	●	●			●	
	Floor	PCA-1805			●		●	●	●	●			●		



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)
PCA-1203M2ESC	10	100	2200	20 x 20 x 28.5	8.3
PCA-1213M2ESC	12	100	3300	50 x 50 x 20	14
PCA-1214M2ESC	12	150	3300	50 x 50 x 30	20.4
PCA-1216M2ESC	12	200	3300	50 x 50 x 35	25.5
PCA-1218M2ESC	12	300	3300	50 x 50 x 50	36.6

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.

CASES AND ROPE BAGS

PCA-0100	PCA-0102	PCA-0104	PCA-0105	PCA-1630	PCA-0340	PCA-0350

Model No.	Description	Material	Length (cm)	Width (cm)	Height (cm)	Weight (kg)
PCA-0100	Purpose built transport case with moulded locations for models PCW5000 or PCW5000-HS and many accessories.	High-Impact Plastic	66	58	41	8
PCA-0102	Purpose built transport case with moulded locations for the PCW3000. Fits moulded Backpack PCA-0104.	High-Impact Plastic	47	44	33	4.8
PCA-0104	Moulded Backpack for Transport Case PCA-0102 and Rope Bag PCA-0103 or XXL Extra Large Transport Bag PCA-0105	Polymer	40	18	54	1.8
PCA-0105	XXL Extra Large transport bag (50 litres). Fits moulded backpack PCA-0104.	Resistant Vinyl	26	24	17	1
PCA-1630	Waterproof and airtight case with removable casters and folding top handle for PCT1800 or PCH2000 winches and accessories.	Polymer	79.5	61.5	44.4	15.1
PCA-0340	Waterproof and airtight case with removable casters and folding top handle for winches and accessories.	Polymer	58	58	56	14.8
PCA-0350	Waterproof and airtight case with folding side handles for winches and accessories.	Polymer	57	57	53	13.9

PCA-0103	PCA-1255	PCA-1256	PCA-1257XL

Model No.	Feature	Material	Diameter (cm)	Height (cm)	Weight (kg)
PCA-0103	Rope Bag - For Backpack PCA-0104. Will store 50 metres of 10 mm rope.	Resistant Vinyl	30	38	0.6
PCA-1255	Rope Bag – Small - Two handles. Will store either 50 metres of 12 mm rope or 100 metres of 10 mm rope.	Durable Nylon	26	36	0.5
PCA-1256	Rope Bag – Medium - Will store either 100 metres of 12 mm rope or 200 metres of 10 mm rope.	Durable Nylon	26	61	0.9
PCA-1257XL	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	59	2.06



PORTABLE CAPSTAN WINCH – PULLEYS



PCA-1270
Open face corner block



PCA-1271
Self-Blocking Pulley



PCA-1272
Double Self-Blocking Pulley



PCA-1273
Double Swing Side Pulley



PCA-1274
Single Swing Side Pulley



PCA-1275
Single Swing Side Pulley



PCA-1292
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)
PCA-1270		Steel	2039	100	27	14	14	2.56	6 / 12	---	N/A
PCA-1271	Brake cam system allows the rope to go through freely in one direction and blocks it in the other direction.	Aluminium	N/A	62	22	8	3.5	0.82	6 / 13	CE	4079
PCA-1272	Two sheaves and a brake cam system - allow the rope to go through freely in one direction and block it in the other direction.		N/A	62	22	8	6	1.1	6 / 13	CE	4079
PCA-1273	Two lightweight 100 mm diameter deep groove aluminium sheaves.	Sides: Stainless steel. Sheave: Aluminium	4486	100	27	14	14	2.03	6 / 12	---	N/A
PCA-1274			2243	100	27	14	14	1.24	6 / 12	---	N/A
PCA-1275			1632	76	17	11	11	0.69	6 / 10	---	N/A
PCA-1292		Aluminium	N/A	63	17	11	11	0.40	6 / 13	CE	6000

SPARE PARTS



PCA-1110
Capstan Drum 57mm



PCA-1100
Capstan Drum 85mm



PCA-1120
Capstan Drum 76mm



PCA-1130
Capstan Drum 108mm



PCA-1151
Spark Arrestor














10-0044
Reversible Safety Lip

Model No.	Feature	Material	Diam. / Hole Diam. (mm)	Weight (kg)
PCA-1100	C/W rope guide and screws.	Aluminium	85 / 25.4	0.95
PCA-1110			57 / 25.4	0.95
PCA-1120			76 / 24.8	0.715
PCA-1130			108 / 24.8	0.715
PCA-1151	For Honda GXH-50 engine.		20	0.085
10-0044	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 – 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 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-1501 Square Tube with Bent Hitch Pin	PCA-1805 Floor Mount Winch Anchor	PCA-1806 Pylon Mount Winch Anchor

Model No.	Description	Material	Length (cm)	Width (cm)	Weight (kg)	WLL (kg)
PCA-1258	60 mm x 3 metres (2-3/8" x 118-1/8").	Polyester	300	6	1.24	2000
PCA-1259	60 mm x 2.5 metres (2-3/8" x 98-7/16").	Polyester	250	6	1	2000
PCA-1260	60 mm x 2 metres (2-3/8" x 78-3/4").	Polyester	200	6	0.92	2000
PCA-1261	For towing balls up to 58.7 mm (2-5/16") diameter.	Zinc plated steel	27	14	0.91	
PCA-1263	For trees and poles with 3 m (10') strap. Use with PCA-1264 or PCA-1268.	Powder Coated Steel	32	27	8.2	
PCA-1264	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	61	26	9.2	
PCA-1265	Bolts on PCA-1266. Use with PCA-1264 or PCA-1268.	Zinc Plated Steel	14	16	1.45	
PCA-1266	For 50 mm towing balls.	Powder coated steel	46	16	3.05	
PCA-1267		Zinc plated steel	30.5	5.08	2.2	
PCA-1268	Installs on PCA-1263, PCA-1265, PCA-1267 or PCA-1501.	Zinc Plated Steel	45	29	4.5	
PCA-1269	For trees and poles with 3 m (10') strap.	Zinc Plated Steel	26	24	4	
PCA-1332	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	
PCA-1501	Square tube 50.8 mm x 45.7 cm with bent hitch pin.	Zinc plated steel	45.7	50.8	3.3	
PCA-1805	Ideal for pulling wire through conduits.	Zinc Plated Steel	51	26	9.4	
PCA-1806	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	



PORTABLE CAPSTAN WINCH – ACCESSORIES

OTHER ACCESSORIES

						
1760427 Briggs & Stratton 82V 4Ah Li Battery	1760428 Briggs & Stratton 82V 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)
1760427	60min Charge Time	High-resistance polymer plastic	21.5cm	-	12cm	8.5cm	2.6kg	-
1760428	Charges 2Ah & 4Ah Batteries	High-resistance polymer plastic	21cm	-	18.5cm	10.5cm	1.5kg	-
PCA-1290	50cm Opening	High-resistance polymer plastic	62cm	50.8cm	68cm	52cm	6.6	-
PCA-1291	Fits ropes up to 13 mm diameter.	Anodised Steel	17cm	-	11cm	11cm	0.405kg	-
PCA-1295	-	Anodised Steel	27cm	6.35mm	14cm	14cm	2.9kg	-
PCA-1310	Fits towing balls up to 50.8 mm (2") diameter.	Anodised Steel	27cm	4.2cm (Knob)	14cm	14cm	1.7kg	-
PCA-1372	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-1701 Steel Locking Carabiner	PCA-1702 Steel Locking Carabiner

Model No.	Description	Material	Minimum Breaking Strength (UTS)	Diam.	Length	Width	Height	Weight	Cert.	Gate Opening
PCA-1276	With screw gate lock.	Zinc plated with anodized aluminium	2550kg	10mm	17cm	11cm	-	0.16kg	CE	16mm
PCA-1281	Equipped with a spring-loaded safety gate.	Powder coated steel	WLL: 744kg	-	17cm	11cm	11cm	0.33kg	-	-
PCA-1282	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
PCA-1299	Convert an existing chain to an efficient choker chain with this C-Hook	Powder coated steel	WLL: 2039kg	-	10cm	7.5cm	1.5cm	0.34kg	-	-
PCA-1701	Multi-purpose high-quality zinc plated with anodized aluminium steel locking carabiner with screw gate lock.	Zinc plated with anodized aluminium	7140kg	12.5mm	17cm	11cm	-	0.35kg	CE	25mm
PCA-1702	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

PORTABLE WINCH-PETROL/DIESEL

GOODWINCH



PETROL WINCH
Model No. "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
SPECIFICATIONS	Honda Petrol Engine	Yanmar Diesel Engine
Twin Capstans	Aluminium, 100mm Dia	Aluminium, 100mm Dia
Capstan Gearbox	Worm and Wheel, 30:1 ratio	Worm and Wheel, 30:1 ratio
Flexible Coupling	Rubber Anti-Vibration	Rubber Anti-Vibration
Main Engine Gearbox	Centrifugal 2:1 ratio	Centrifugal 2:1 ratio
Engine	4kW 4 stroke	3.5kW Diesel
Base Construction	Anodised Aluminium fabrication	Anodised Aluminium fabrication
Removable Lifting Handles	Bright zinc plated steel, rubber covered	Bright zinc plated steel, rubber covered
Anchor Points	Fitted tested shackles	Fitted tested shackles
Rope Tie Offs	Built in at top of main handle	Built in at top of main handle
PERFORMANCE	Honda Petrol Engine	Yanmar Diesel Engine
Easy start	Manual Choke	Manual Choke
Method of starting	Recoil Starter	Recoil Starter
Emergency Stopping	Top mounted cut off switch	Slide Control on Engine Side
Engine Speed Control	Throttle lever	Throttle lever
Running Time, half throttle	Approximately two hours	Approximately two hours
Load Retrieval Speed	Creep to 25m per minute	Creep to 21m per minute
Pulling Capacity	Maximum 1000 kgs	Maximum 850 kgs
Raising Capacity *	Maximum 300 kgs	Maximum 260 kgs
Recommended Rope Max Suitable Rope Length	14.3mm (9/16") double braided poly. As required, no maximum	14.3mm (9/16") double braided poly. As required, no maximum
DIMENSIONS	Honda Petrol Engine	Yanmar Diesel Engine
With Handles Removed	65cm long x 39cm wide x 42cm high	74cm long x 49cm wide x 47cm high
Approx. Overall Weight	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.
- Modular Safety Barrier available (refer page 229)

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
00369	6806-22	UT8-22 Ultra Tugger 8 Package & Mobile VersiBoom II	35.8	28.9
03196	6800-22	UT8-22 Ultra Tugger 8 Package & Floor Mount	35.8	28.9
00812	6906-22	UT10-22 Ultra Tugger 10 Package & Mobile VersiBoom II	35.6/44.5*	28.9
00814	6900-22	UT10-22 Ultra Tugger 10 Package & Floor Mount	35.6/44.5*	28.9
00813	6901-22	UT10-22 Ultra Tugger 10 Package & Chain Mount	35.6/44.5*	28.9
00829	UT10-22	UT10-22 Puller Assembly	35.6/44.5*	28.9
00553	MVB	Mobile VersiBoom II Package	-	-

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

^ Floor mount available, Model No. 35605 or available in package (Model No. 00814)

ELECTRIC CABLE PULLERS (CONTINUED)



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

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.

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

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

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



Model No. 00813



SCAN & PLAY

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

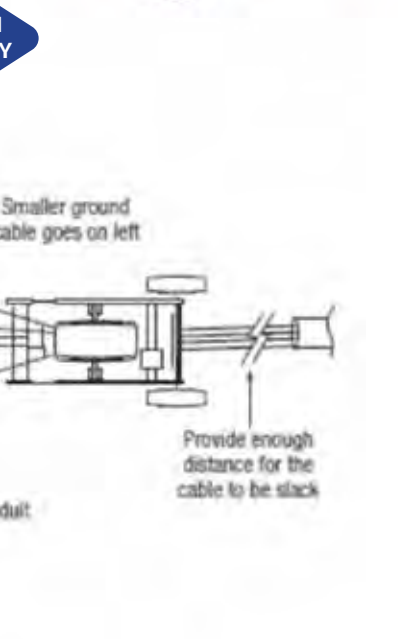
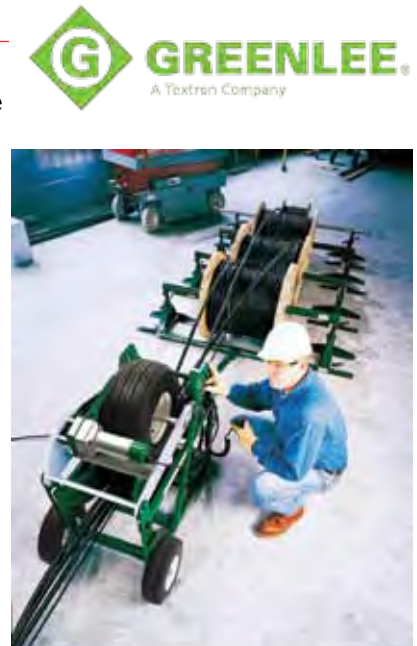
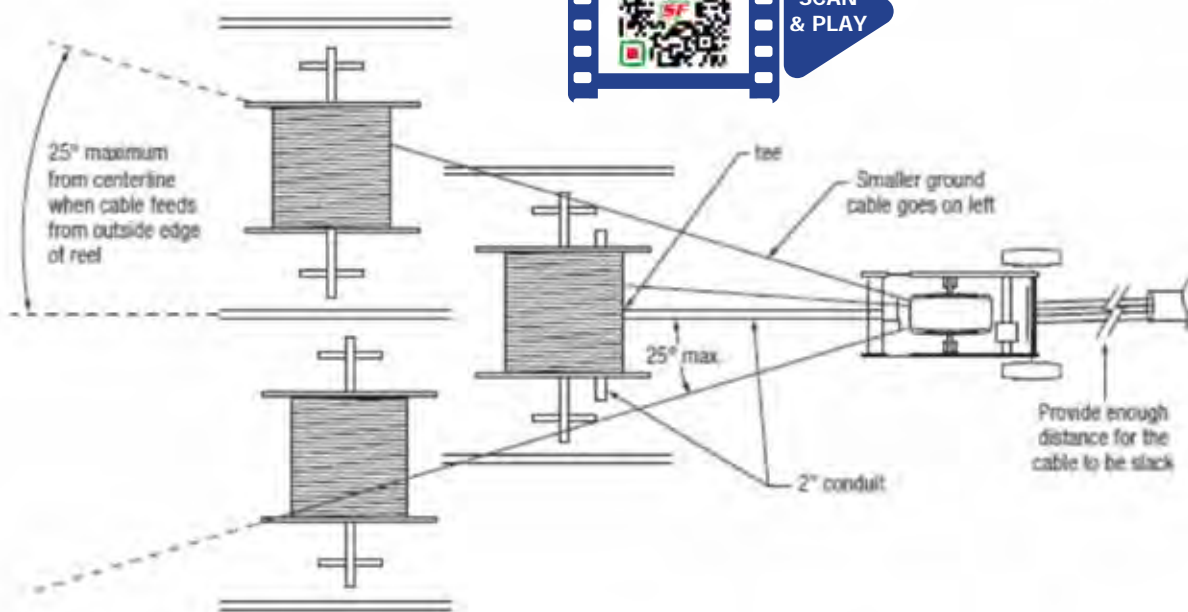
Model No.	12293
Reel Weight Capacity (kg)	11,300
Power Supply (VAC)	230
Size (mm)	1040 x 699 x 953
Weight (kg)	130

ACCESSORIES

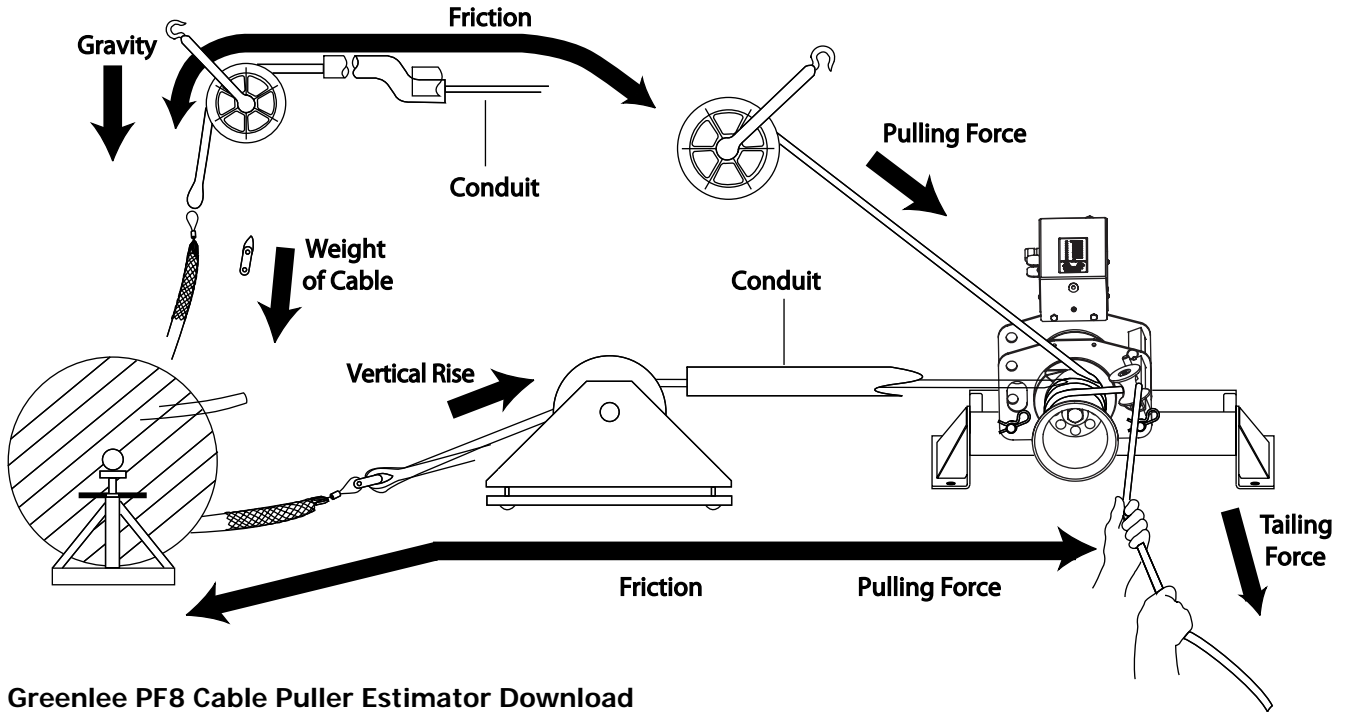
Foot switch available

Model No.	24821
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EXAMPLE OF APPLICATION



**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; Holmaking

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/

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.
T-508D	800	1,333	6.6	6.1	8.3	4,000	420x250x59	690/400	29506	1959
T-516D	1,600	2,666	13.5	13.1	11.5	8,000	530x315x127	1150/650	29516	2059
T-532D	3,200	5,333	24.0	26.6	16.3	16,000	620x355x130	1150/650	41206	2379
TU-8	800	1,333	8.4	6.1	8.3	4,000	527x265x108	770-510	8836	1959
TU-16	1,600	2,666	20.0	13.1	11.5	8,000	660x330x140	1190-680	8836	2059
TU-32	3,200	5,333	27.0	26.6	16.3	16,000	676x330x156	1190-680	6866	2379

* 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.

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)
TU 16 H	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
TU 32 H	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)
F 202.P.08	6	200	1.8	D12	8
F 203.10	8	300	5.8	D13	8 (middle) 15 (1st layer)
F 206.10	10	500	5.8	D14	10 (middle) 15 (1st layer)
F 207.30	10	700	19.0	D15	30 (middle)
F 210.50	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!



PROTECTIVE CABLE WINCH BARRIER

MODEL No.CWB-600 SERIES CWB- WINCH BARRIER

DESCRIPTION

With Safety the number “1” priority whilst installing cables with high powered winches, these barriers are designed to provide protection to the operator in the event of rope or cable failure.

Designed for functionality, the barrier can be set-up and adjusted in several configurations to suit your work site and particular pull.

Other configurations can be made to order. Please contact SF for more detail



Bullet Hinges,
allows 100°
Rotation of gate



Disassembles flat for
transportation



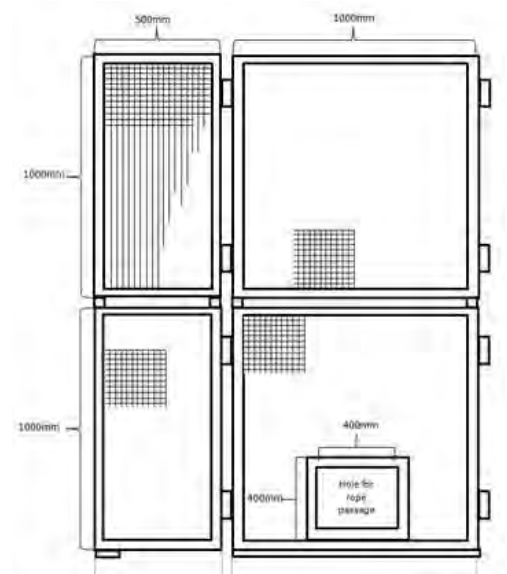
Designed for Greenlee winch
Floor Mount (00865)

FEATURES

- Fabricated from high quality steel product
- Powder coated Safety Orange
- Swivel sides for angle protection forward and backward – can be assembled on either left or right of the main barrier
- 16mm holes in main base and gate base plates for anchoring and fixing to winch
- Dissembles flat for ease of transport
- Pictured barrier, designed to suit Greenlee Electric Winch, Floor Mount (00865)
- Configurations adapted to your Winch and job specifications upon request

DETAIL

APPROXIMATE DIMENSIONS (mm)	
Erected	2000H x 1500L x 200W
Disassembled	1000H x 1000L x 200W
APPROXIMATE WEIGHT (kg)	
Total	35.95
Main Base	17.85
Main Top	8.15
Gate Base	5.6
Gate Top	4.35



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)
F 325.P.08	120	6-7	8.0	E32	9
F 265.P.15	185	8	13.0	E33	15
F 215.P.30	200	8-10	20.0	E34	30
F 280.40.P	325	13-16	26.0	E35	40
F 275.P.40	250	13	26.0	E36	40
F 285.P.60	300	14	30.0	E37	60
F 280.P.100	350	16	48.0	E38	110
F 290.P.200.S	380	22	50.0	E39	210
F 260.P.400	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.

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!



MORE MACHINES AVAILABLE UPON REQUEST

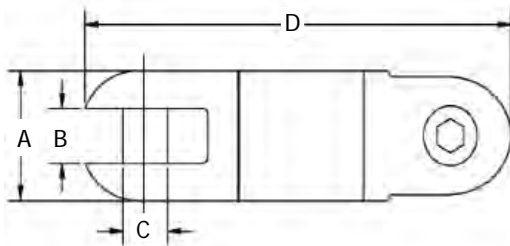
SERIES 00505 UNDERGROUND LINE SWIVELS (MADE IN CANADA)



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		
00505-005	3.3	16	7.1	4.8	64	00005-SLT	0.06
00505-008	5.0	20	7.1	4.8	78	00008-SLT	0.12
00505-010	10.0	22	9.5	7.9	86	00010-SLT	0.15
00505-015	15.6	25	10.3	9.5	98	00015-SLT	0.23
00505-020	22.2	32	13.5	10.3	121	00020-SLT	0.45
00505-025	31.1	35	14.3	12.7	130	00025-HEX	0.63
00505-027	40.0	38	15.1	12.7	143	00025-HEX	0.77
00505-030	44.5	41	17.5	15.9	152	00030-HEX	0.95
00505-035	66.7	51	19.8	17.5	178	00035-HEX	1.70
00505-040	110.0	60	26.2	22.2	262	00040-HEX	3.50
00505-045	222.0	76	30.2	28.6	349	00045-HEX	7.70

* The Safe Working Load is calculated at 3:1 safety factor



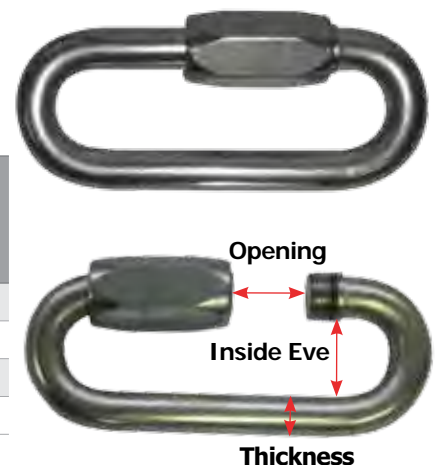
SERIES K600 QUICK LINKS (MADE IN EUROPE)

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)
K600.08.W	88	8	17.5	17.5	00505-010	650	1,083	3,250	0.10
K600.10.W	106	10	20.5	20.5	00505-015	1,000	1,667	5,000	0.15
K600.12.W	124	12	23.5	23.5	00505-020	1,250	2,083	6,250	0.26
K600.16.W	161	16	29.5	29.5	00505-030	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.

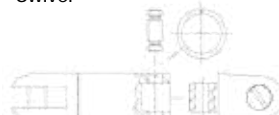
Typically, they would be used during the installation of fibre optic cable or very small gas ducting where the connector can be pre-set to breakaway at a predetermined load, thus protecting the fibres or the duct. The breakaway pins may be changed to allow the same connector or swivel to be used with a variety of different breakaway pins.



BREAKAWAY PINS & CLIPS



Swivel



DCD



Model No.	Dimensions (mm)							Max Pin WLL (kg)	Use Breakaway Pin Type	WT (g)
	A	B	C	D	E	F	G			
00550-005	15.9	7.1	4.7	17.4	6.3	69.8	82.5	307	A	80
00550-010	22.2	9.5	7.9	24.6	11.1	80.9	103.2	455	B	190
00550-020	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 $\pm 10\%$ (kN)	Colour Code	Model No. (Kit=Qty 10 Pins)	Break Point $\pm 10\%$ (kN)	Colour Code	Model No. (Kit=Qty 5 Pins)	Break Point $\pm 10\%$ (kN)	Colour Code
Type A (Swivel 00550-005)			Type B (Swivel 00550-010)			Type C (Swivel 00550-020)		
00555-002	0.88	WHITE	00535-002	0.88	WHITE	00555-013	6.09	WHITE
00555-0034	1.51	RED	00535-004	1.77	YELLOW	00555-018	8.00	GREEN
00555-004	1.77	YELLOW	00535-006	2.66	ORANGE	00555-020 ³	8.89	BLUE
00555-0045	2.00	BLUE	00535-008	3.55	GREY	00555-027 ²	12.01	BLACK
00555-006	2.66	ORANGE	00535-010	4.44	RED	00555-036	16.01	YELLOW
00555-007 ⁴	3.00	BLACK				00555-040 ¹	17.79	RED

Suits Type of Cable;

¹ 300mm² - 500mm, 3 Core + 300mm Triplex (11kV)

² 95mm-300mm², 3 Core (11kV)

³ 630mm² Single Core Cu (11kV) + LV Unarmoured Cables

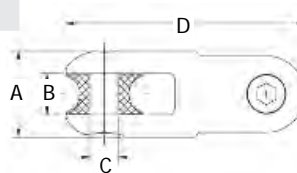
⁴ 300mm² XLPE Single Core or smaller

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)
00521-035	66.7	16	44.45	19.5	17.5	123.8	0.7
00521-035	66.7	22	50.8	23.8	17.5	139.7	1.23
00521-035	111.2	22	61.1	25.4	22.2	157.9	2.04

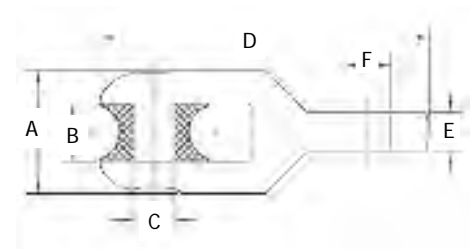
* WLL (Working Load Limit) 3:1 recommended as a guide only





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)		
00522-025	31.1	22.2	50.8	23.8	17.5	134.9	12.7	13.4	0.9	00505-020 00505-025 00505-027
00522-035	66.7	22.2	50.8	23.8	17.5	136.53	16.6	19.0	1.0	00505-030 00505-035
00522-040	133.44	22.2	50.8	23.8	17.5	136.53	16.6	7.9	1.7	00505-040

* WLL (Working Load Limit) 3:1 recommended as a guide only



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

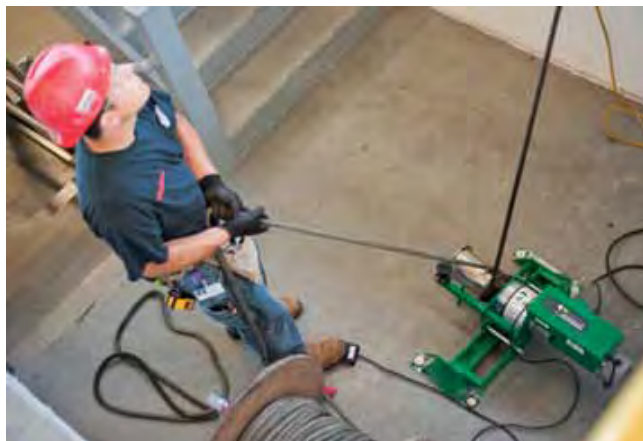
- Double-braided inner core with double-braided outer jacket
- Rot and mildew resistant.
- Factory spliced eyes at both ends.
- Lowest stretch
- Select a rope with a maximum rated capacity that meets or exceeds the cable Puller's maximum capacity.
- White rope with green tracer for easy identification
- Supplied on heavy-duty plastic or wooden reel

PELICAN ROPE

The Most Trusted Name in Rope™



Spliced Eye C/W Chafe Guard Each End



SPECIFICATIONS

Model No.	Rope Diameter	Rope Length	Average Breaking Strength*	Weight
	mm	m	kN	Kg
4N-180-03S	14.3	91	54.6	12.7
4N-180-06S	14.3	182	54.6	28.6
4N-180-12S	14.3	365	54.6	59.0
4N-240-03S	19.1	91	114.5	26.3
4N-240-06S	19.1	182	114.5	51.3
4N-240-12S	19.1	365	114.5	104.3
4N-240-001	19.1	500	114.5	142.9
SUITS GREENLEE 6001-22 CABLE PULLER				
4N-280-03S	22.2	91	134.1	40.8
4N-280-06S	22.2	182	134.1	80.7
4N-280-12S	22.2	365	134.1	163.3
4N-280-001	22.2	500	134.1	223.7
SUITS GREENLEE 6800-22 CABLE PULLER				

* 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

HIGH TECH UTILITY CABLE PULLING & STRINGING ROPE (MADE IN USA)

PELICAN ROPE

The Most Trusted Name in Rope™



HIGH STRENGTH 12-STRAND DYNEEMA – the world's strongest fibre

All DYNEEMA Ropes are light blue urethane coated for extra abrasion resistance

This high performance rope is the first choice of top Industrial and Utility professionals

Contact us for more information



CABLE SOCKS - STANDARD TUBULAR CABLE GRIPS (MADE IN AUSTRALIA)

C SERIES



C1 Series¹

- Two Ply
- Galvanised Strand
- Alloy Ferrule
- Soft Eye

SOFT EYE - AL FERRULE Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL 3:1 (kN)*
C1010	10-14	350	5	1.7
C1014	14-19	400	9	3.0
C1019	19-28	500	15	5.0
C1028	28-40	600	24	8.0
C1040	40-55	800	35	11.7
C1055	55-75	900	62	20.7
C1075	75-95	1000	98	32.7
C1095	95-120	1200	133	44.3
C1120	120-150	1400	187	62.3
C1150	150-190	1600	283	94.3

¹ 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 Sleeving
- HDGWCS designed for passage through overhead stringing rollers

HDGW



HDGWCS



HDGW Model No.	HDGWCS Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
HDGW08	HDGW08CS	8-11	700	28	9.3
HDGW10	HDGW10CS	10-15	750	37	12.3
HDGW15	HDGW15CS	15-21	810	57	19.0
HDGW20	HDGW20CS	20-27	1040	73	24.3
HDGW27	HDGW27CS	27-35	1160	101	33.6
HDGW32	HDGW32CS	32-37	1160	101	33.6

Note: WLL (Working Load Limit) 3:1 recommended as a guide only.



Other Sock Styles & Configurations Available Request





FLAT, GROUND & RAISED ROLLERS

All units chrome zinc plated finish and choice of polypropylene or aluminium roller.



**FGR/FGRA Series
Flat Ground 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.



**NTR/NTRA Series
Flat Trench Roller**

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.



**RTR/RTRA Series
Raised Trench Roller**

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)
FGR-140	250 x 240 x 130	Polypropylene	PR-140	500	150	1.80
FGRA-140	250 x 240 x 130	Aluminium	ALR-140	1000	150	3.20
FGRA-205	285 x 240 x 150	Aluminium	ALR-205	1500	195	5.10
NTR-120	330 X 170 X 150	Polypropylene	PR-140	500	150	1.20
NTRA-120	330 X 170 X 150	Aluminium	ALR-140	1000	150	2.80
NTRA-205	330 x 225 x 170	Aluminium	ALR-205	1500	195	5.00
RTR-140	330 x 220 x 250	Polypropylene	PR-140	500	150	2.10
RTRA-140	330 x 220 x 250	Aluminium	ALR-140	1000	150	3.10
RTRA-205	330 x 270 x 250	Aluminium	ALR-205	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

45° Curve



TRGM-140-900R

45° Curve - Large



TRGM-140-4A90

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)
TRGM-140-3A45	590 x 230 x 220	45	500	3	150	9.60
TRGM-140-900R	820 X 230 X 245	45	900	4	150	12.50
TRGM-140-4A90	690 x 690 x 200	90	-	4	150	15.00



MANHOLE ROLLER GUIDE



TRGM-100



TRGM-100-2



TRGM100-3



PMCG & PMRG SERIES PIVOTING MANHOLE GUIDES

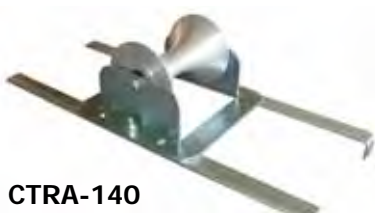


PMCG Series



PMRG Series

CABLE TRAY ROLLERS (ALL ROLLERS HAVE ROLLER BEARINGS)



CTRA-140



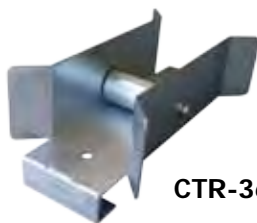
CTR-140



CTR-50



CTR-60C-5R

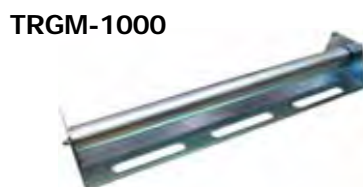


CTR-360



CTR500-15R

LONG FEEDING TRENCH ROLLER GUIDES



TRGM-1000



TRGM-700



TRGM1000-2R

TCR SERIES TRENCH CORNER ROLLERS



TCR60-230



TCR160-230



TCR78-300





FEEDING SHEAVES & GUIDES

Image	Model No. *	Dimensions (mm)	Conduit Nom. OD (mm)	Approx Equip OD (mm)	Weight (kg)
	IFS-050E	255 X 120 X 115	50	42	1.60
	IFS-050T	255 X 130 X 115	50	48	1.60
	IFS-063E	255 X 140 X 115	63	48	1.60
	IFS-063T	250 X 155 X 110	63	60	1.70
	IFS-080	250 X 200 X 140	80	74	1.80
	IFS-100	250 X 220 X 155	100	98	2.80
	IFS-125	250 x 240 x 165	125	118	3.20
	IFS-150	250 x 260 x 175	150	138	4.40
	FS-050E	370 X 160 X 180	50	38	2.90
	FS-050T	380 X 160 X 180	50	48	3.30
	FS-063E	380 X 160 X 180	63	48	3.30
	FS-063T	380 X 160 X 180	63	60	3.30
	FS-080	370 X 170 X 200	80	74	3.50
	FS-100	390 X 190 X 210	100	98	5.60
	FS-125	390 X 200 X 220	125	118	6.10
	FS-150	400 X 230 X 230	150	138	6.40
	FS-200	460 X 280 X 320	200	190	13.90
	FS-080-4R	360 x 200 x 170	80	74	5.20
	FS-100-4R	380 x 220 x 180	100	98	6.50
	FS-125-4R	390 X 230 X 260	125	118	7.00
	FS-150-4R	390 X 260 X 280	150	138	7.90
	FS-200-4R	460 X 280 X 320	200	190	13.90
	FS080-4A90	900 X 620 X 260	80	74	12.20
	FS100-4A90	900 X 620 X 260	100	98	15.00
	FS125-4A90	900 X 620 X 260	125	118	15.00
	FS150-4A90	900 X 620 X 260	150	138	15.00
	FS200-4A90	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)
CS-050E	310 X 50 X 85	50	42	0.50
CS-050T	310 X 50 X 85	50	48	0.50
CS-063E	310 X 50 X 85	63	48	0.50
CS-063T	310 X 50 X 85	63	60	0.50
CS-080	465 X 90 X 150	80	74	1.30
CS-100	560 X 110 X 180	100	98	2.50
CS-125	720 X 140 X 230	125	118	4.90
CS-150	750 x 160 x 250	150	138	5.30
CLS-050E	310 x 130 x 150	50	38	1.20
CLS-050T	310 x 130 x 150	50	48	1.20
CLS-063E	310 x 130 x 150	63	48	1.20
CLS-063T	310 x 130 x 150	63	60	1.20
CLS-080	410 x 160 x 250	80	74	2.50
CLS-100	550 x 190 x 340	100	98	4.60
CLS-125	680 x 220 x 410	125	118	6.80
CLS-150	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)
15324	650	152	38	127	4.0	17.8
15325	651	305	84	127	6.8	17.8
15326	652	457	178	127	11.3	17.8
15327	653	610	249	127	15.9	17.8

SPARE PARTS

Sheave Model No.	15324	15325	15326	15327
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	17266
Sheave Pin Clip (2)	50302
Sheave	15364
Sheave Bushing (2)	16798
Yoke Frame	17299

Model No.	17265
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)
31569	6036	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)
26368	4024	610mm Sheave	6	17.8	24.5
26369	4036	915mm Sheave	8	17.8	27.0
26370	4048	1220mm Sheave	10	17.8	38.0

REPLACEMENT PARTS	
19185	Yoke Frame
15362	Sheave with Bearings
19186	Sheave Pin
50302	Sheave Pin Clip
31573	Sheave Pin

THESE SHEAVES IDEAL FOR WORKING WITH GREENLEE ELECTRIC CABLE PULLERS. USE ROLLER SUITABLE FOR MACHINE CAPACITY



HOOK SHEAVES 35.8kN WLL (MADE IN USA)

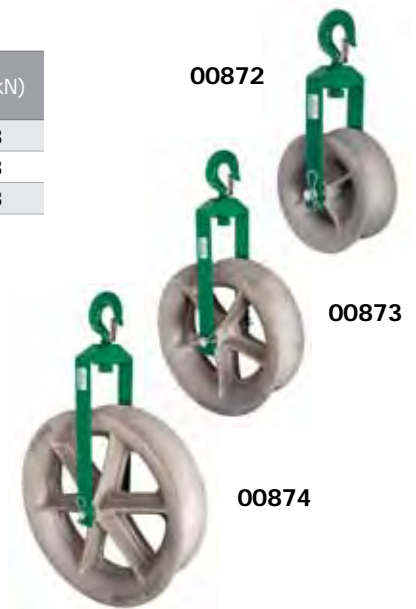
- Can be used with Greenlee.
- Strong, welded steel frames.
- Forged steel closure type hooks with 25.4mm opening.
- Sheaves are aluminium alloy with self-lubricating bearings.



Model No.	Greenlee Model No.	OD (mm)	Inside Radius (mm)	Width (mm)	Weight (kg)	WLL (kN)
00872	8012	305	98	127	12.7	35.8
00873	8018	458	178	152	19.9	35.8
00874	8024	610	251	165	30.3	35.8

SPARE PARTS

Sheave Model No.	00872	00873	00874
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



PIT LID SEAL BREAKER
Model No. **PB-100**



PIT LID LIFTER
Model No. **PK-500**



PILLAR SPANNER 21 & 26mm
Model No. **PS21-26**

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)
WBC-050	230 x 55 x 55	50	55	0.25
WBC-063	245 x 70 x 70	63	70	0.25
WBC-080	390 x 90 x 90	80	90	0.60
WBC-100	435 x 110 x 110	100	110	0.60
WBC-125	470 x 130 x 130	125	130	0.65
WBC-150	470 x 130 x 130	150	130	0.80
WBC-200	600 x 230 x 230	200	230	0.90

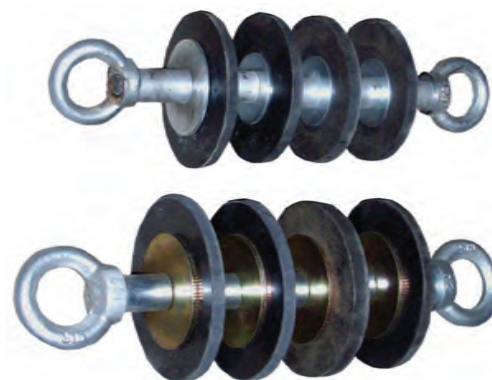


CRC SERIES CONDUIT RUBBER CLEANER

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)
CRC-050E	160 x 46 x 46	50	46	0.25
CRC-050T	160 x 53 x 53	50	53	0.25
CRC-063E	160 x 58 x 58	63	58	0.25
CRC-063T	160 x 66 x 66	63	60	0.30
CRC-080	250 x 85 x 85	80	85	1.05
CRC-100	250 x 107 x 107	100	107	0.80
CRC-125	250 x 130 x 130	125	130	1.00
CRC-150	250 x 148 x 148	150	148	1.15
CRC-200	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)
DPM-014T	24 x 14 x 14	14	14	^	^	< 0.5
DPM-018T	30 x 18 x 18	18	18	^	^	< 0.5
DPM-024T	40 x 24 x 24	24	24	^	^	< 0.5
DPM-028T	45 x 28 x 28	28	28	^	^	< 0.5
DPM-032T	55 x 32 x 32	32	32	^	^	< 0.5
DPM-038T	60 x 38 x 38	38	38	^	^	< 0.5
DPM-040E	210 x 31 x 31	40	31	5	60	0.06
DPM-050E	270 x 40 x 40	50	40	6	80	0.15
DPM-050T	270 x 47 x 47	50	47	6	80	0.15
DPM-063E	350 x 52 x 52	63	52	8	100	0.30
DPM-063T	350 x 60 x 60	63	60	8	100	0.35
DPM-080	500 x 74 x 74	80	74	10	180	0.95
DPM-100	500 x 90 x 90	100	90	10	180	2.00
DPM-125	565 x 118 x 118	125	113	12	245	2.85
DPM-150	565 x 130 x 130	150	130	12	245	3.20
DPM-200	600 x 184 x 184	200	184	12	280	4.50

* "T" for Telecommunications Conduit or "E" for Electrical Conduit

^ Specifications on demand



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.

Model No. *	Dimensions OAL x W x H (mm)	Conduit Nom. OD (mm)	Slug Approx. OD (mm)	Wt (kg)
RS-050E	50 x 46 x 46	50	46	0.15
RS-050T	50 x 53 x 53	50	53	0.15
RS-063E	50 x 58 x 58	63	58	0.30
RS-063T	60 x 66 x 66	63	66	0.35
RS-080	80 x 85 x 85	80	85	0.95
RS-100	100 x 107 x 107	100	105	2.00
RS-125	100 x 130 x 130	125	130	2.85
RS-150	100 x 148 x 148	150	149	3.20
RS-200	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
35211	Cable-Gel Squeeze Bottle	0.95	1	8,000 -12,000	7.0-8.0	0.18
35212	Cable-Gel Tub	3.79	3.9	8,000 -12,000	7.0-8.0	0.18
35213	Cable-Gel Bucket	18.93	20.4	8,000 -12,000	7.0-8.0	0.18

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
ECS-12	Conduit seal off for 12 to 40mm
ECS-50	Conduit seal off for 40 to 70mm
ECS-110	Conduit seal off for 70 to 160mm

- 1 each Rope grommets 3mm, 5mm and 7mm

Model No.	DESCRIPTION
EBK2-130K	Complete Blowing Kit
EBK2-1300	Blower Unit Only (11.9kg)



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 Teslra 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 (2.1cm³ 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)
CRB-150	50-150	630	4.1
CRBA-125	40-125	550	3.2



ACCESSORIES

BALLOON LINE CARRIERS, CONDUIT SEAL OFFS and COMPRESSOR BLOWERS also available.





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
FRD5-40*	5mm Fibreglass Rodder	40	4	FRR5-40
FRD5-80*	5mm Fibreglass Rodder	80	4	FRR5-80
FRD7-75*	7mm Fibreglass Rodder	75	9	FRR7-75
FRD7-125*	7mm Fibreglass Rodder	125	13	FRR7-125
FRD7-150*	7mm Fibreglass Rodder	150	16	FRR7-150
FRD9-150**	9mm Fibreglass Rodder	150	38	FRR9-150
FRD9-200**	9mm Fibreglass Rodder	200	44	FRR9-200
FRD11-200**	11mm Fibreglass Rodder	200	55	FRR11-200
FRD11-250**	11mm Fibreglass Rodder	250	62	FRR11-250
FRD11-300**	11mm Fibreglass Rodder	300	73	FRR11-300

* Free Standing

** Include Semi-Pneumatic Wheels



ACCESSORIES – Available for 5mm, 7mm, 9mm & 11mm rods

Model No.	Description	FEE-05 & FEE-7-11	SE9-11	RG-5, RG-7 & RG-9-11	ME-05, ME-07, ME-09, ME-11	JS-05, JS-07, JS-09, JS-11	SL-5, SL-7, SL-9, SL-11	FL9-11	PR040B
		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)	QTY	Each Kit Contains Description
JK-05	5	2	Joiner Sleeves
JK-07	7	1	Male End Fitting
JK-09*	9	1	Female End Fitting with Eye
JK-11*	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)
DRR-1000	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		
CDT-500	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
CDC-150	CABLE DRUM CADDY	950	1200	150	40
Dimensions (mm)		1410 x 1300 x 855 (LxWxH)			



Model No. CDC-150

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
DL-150	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	
CRS-290	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)



50Kg WLL

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
CRC-600	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
RS-2419	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)
SLS0.5T	SCISSOR LIFT DRUM SET	2 x Complete Stands with Rubber Wheels	1200	1000	50 x 1500 (DA15-50)	Not Supplied	500	1000	200	55	670
SLS1-2T		1 x Stamped & Registered Drum Axle	1600	1700	60 x 2300 (DA23-60)	60 x 2300 (DA23-60J)	2000	1380	400	55	925
SLS3-4T		1 x Ground Joining Bar (SLS1-2 & SLS3-4 Only) 2 x Retaining Collars	2600	2000	90 x 2300 (DA23-90)	90 x 2300 (DA23-90J)	4000	1780	400	60	1330



SLS0.5T shown with rope drum



SLS0.5T shown locked together for storage



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
SLS0.5T	1000 x 200 x 150	2300 x 150 x 120	38	30
SLS1-2T	1400 x 710 x 370	2500 x 180 x 150	90	40
SLS3-4T	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
SLS1-2T	60	DAC-060	DSC-060
SLS3-4T	92	DAC-090	DSC-090

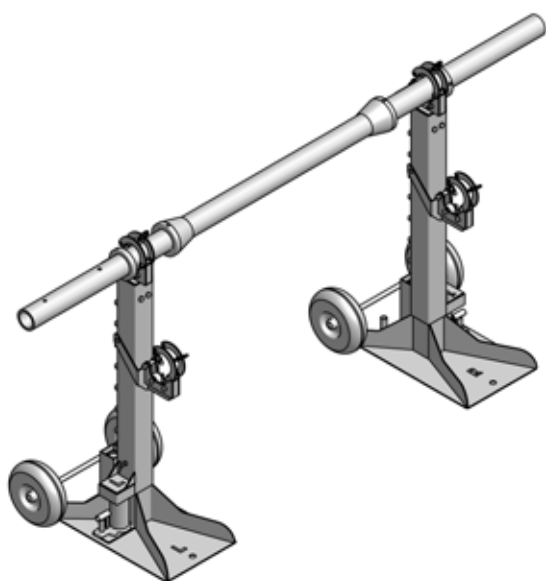
8T HYDRAULIC DRUM JACK STAND MODEL No. DJS-58T

- 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

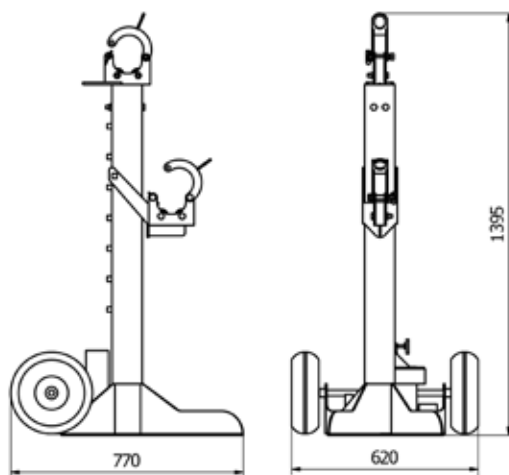
Model No.	Description	Drum Dia mm Max	Drum Width (mm)	WLL Kg
DJSC-58T	HYDRAULIC DRUM JACK STAND WITH BRAKE & FIXING ARM (SEE BELOW)	3300	1800	8000
DJS-58T	HYDRAULIC DRUM JACK STAND	3300	1800	8000

OPTIONAL ACCESSORIES

Model No.	Description	Suits
DB-900	DISC BRAKE (Supplied with below DFA-90)	90mm AXLE DA28-90HB
DFA-90	DRUM FIXING ARM	90mm AXLE DA28-90HB



Max drum size of 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

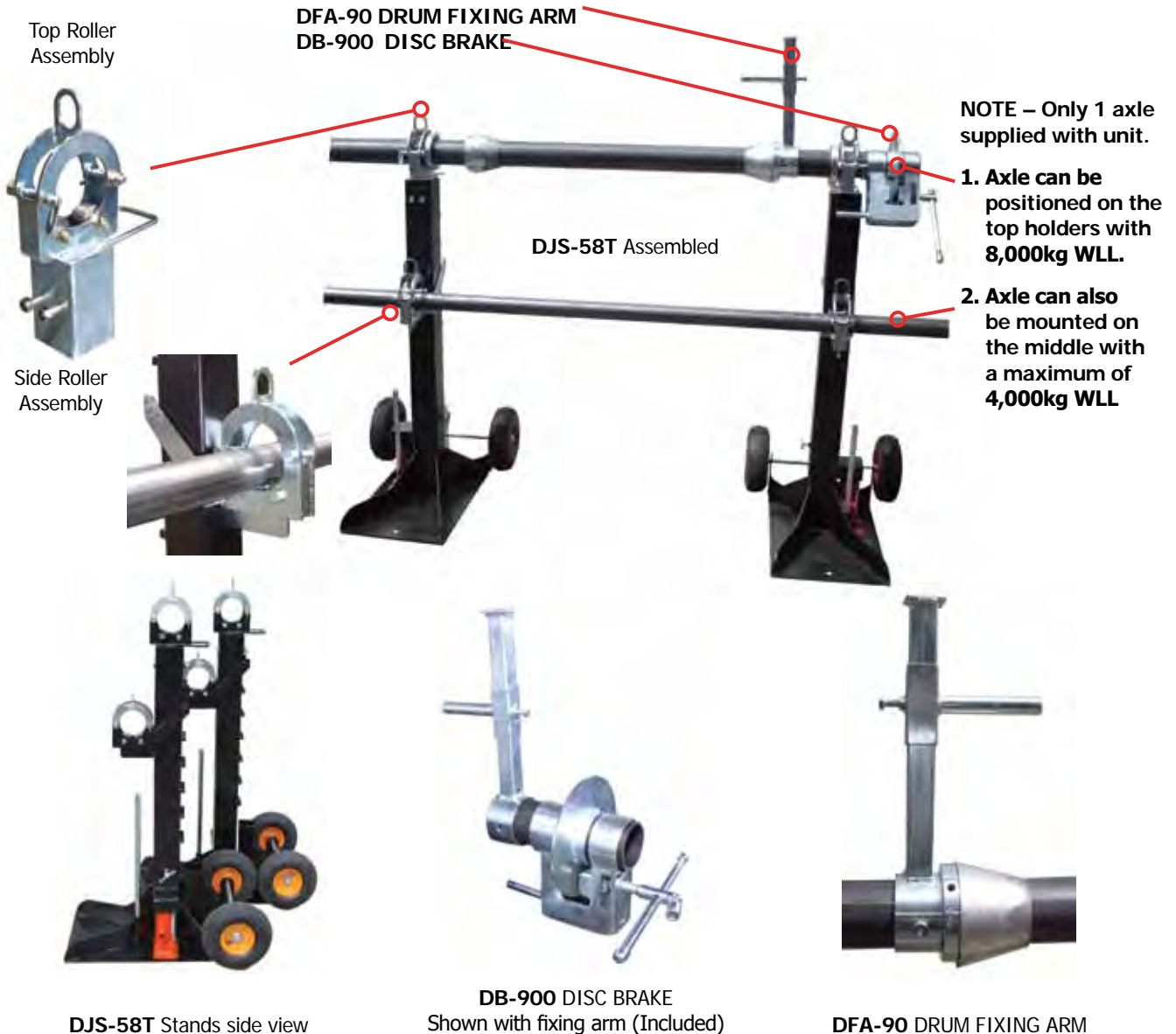
Item	Dimension (cm)	Wt (kg)
Box	110 x 75 x 65	140
Axle	280 x 15 (OD)	56

SPARE PARTS

Model No.	Description
DB200	Spacer – Fits under bottle jack to extend height
MH-7	Bottle Jack - Replacement

8T HYDRAULIC DRUM JACK STAND MODEL No. DJS-58T (CONTINUED)

ACCESSORIES & ALTERNATE AXLES



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)
DA15-50	N/A	N/A	DCS-050	N/A	Pipe	1.5	50	0.5
DA25-60	DAC-060	105	DSC-060	N/A	Pipe	2.5	60	2
DA25-90	DAC-090	135	DSC-090	N/A	Pipe	2.5	89	4
DA28-40S	DAC-040	105	DSC-040	DB-400	Solid	2.8	40	5
DA28-66HB	DAC-066	105	DSC-066	DB-660	Pipe	2.8	66	8
DA28-70HB	DAC-070	105	DSC-070	DB-700	Pipe	2.8	72	8
DA28-90HB*	DAC-090	135	DSC-090	DB-900	Pipe	2.8	92	8
DA28-90XH	DAC-090	135	DSC-090	DB-900	Pipe	2.8	92	12
DA33-100XH	DAC-100	135	DSC-100	DB-100	Pipe	3.3	100	16

* DA28-90HB axle is included with purchase of DJS-58T package.

TROLLEY WIRE GRIPS (MADE IN JAPAN)

HI-TOOL CO., LTD



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
TROLLEY-20	20	5	22	90	34x43	1.8	✓	✓	✓	✓				✓	✓	✓	✓
TROLLEY-30	30	5	22	90	34x43	1.8	✓	✓	✓	✓				✓	✓	✓	✓
TROLLEY-60	60	8	28	140	43x51	3.5	✓	✓	✓	✓				✓		✓	✓
FEEDER-MT20	20	5	28	120	34x43	1.9					✓	✓	✓	✓	✓	✓	✓
FEEDER-LG30	30	17	35	120	34x43	2.5					✓	✓	✓	✓	✓	✓	
AL-50KN-GRIP	50	18	28	180	43x51	4.7					✓	✓	✓	✓			
AL-60KN-GRIP	60	28	46	220	60x51	7.0					✓	✓	✓	✓			

PATENTED HI-TOOL GRIPS

WIRE GRIPS (MADE IN JAPAN)

HI-TOOL CO., LTD

STANDARD RANGE OF OVERHEAD & ELECTRICAL GRIPS



SPECIFICATIONS

Model No.	Specifications					Cable/Conductor Types										Safety				
	WWL (kN)	Min Cond (mm ²)	Max Cond (mm ²)	Jaw Length (mm)	Weight (kg)	Copper	ACSR	Aluminium	ABC	Covered Conductor	Contact Wire	Guy Wire	Wire Rope	Barbed Wire	Live Line Rings	Latch	Trigger Grip	Spring Latch	Notched	Locking
SD-S-GRIP	10	3	13	50	0.6	✓				✓		✓				✓	✓			
SD-S-GRIP-LK	10	3	13	50	0.6	✓				✓		✓				✓	✓			✓
NEW-SD-GRIP	10	2.6	15	50*	0.6	✓				✓		✓		✓		✓	✓			
10KN-GRIP	10	5	22	70	1.1	✓				✓	✓	✓				✓	✓			
20KN-GRIP	20	5	22	90	1.5	✓				✓	✓	✓				✓	✓			
H-20KN-GRIP	20	5	22	90	1.5	✓				✓	✓	✓			✓	✓	✓	✓	✓	
20KN-W-GRIP	20	5	22	90	1.5	✓				✓	✓	✓	✓			✓	✓			
35KN-GRIP	35	5	22	90	1.7	✓				✓	✓	✓	✓			✓	✓			
H-35KN-GRIP	35	5	22	90	1.7	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	
H-35KN-GRIP-LK	35	5	22	90	1.8	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
MIGHTY-20-GRIP	20	5	28	120	1.9	✓				✓		✓				✓	✓			
MIGHTY-20-GRIP-NS	20	5	28	120	1.9	✓				✓		✓				✓	✓		✓	
H-MIGHTY-20-GRIP	20	5	28	120	1.9	✓				✓		✓			✓	✓	✓	✓	✓	
H-MIGHTY-20-GRIP-LK	20	5	28	120	2	✓				✓		✓			✓	✓	✓	✓	✓	✓
LARGE-20-GRIP	20	16	35	120	2.1	✓				✓						✓	✓			
H-LARGE-20-GRIP	20	16	35	120	2.1	✓				✓					✓	✓	✓	✓	✓	
LARGE-30-GRIP	30	18	35	120	2.4	✓				✓						✓	✓			
H-LARGE-30-GRIP	30	18	35	120	2.4	✓				✓					✓	✓	✓	✓	✓	
40KN-GRIP	40	8	28	140	3.5	✓				✓	✓	✓	✓			✓	TWIST			
AL-10KN-GRIP	10	5	22	70	1.1	✓	✓	✓								✓	✓			
AL-10KN-GRIP-LK	10	5	22	70	1.3	✓	✓	✓								✓	✓			✓
AL-20KN-GRIP	20	5	22	90	1.5	✓	✓	✓								✓	✓			
AL-20KN-GRIP-LK	20	5	22	90	1.6	✓	✓	✓								✓	✓			✓
AL-35KN-GRIP	35	5	22	90	1.7	✓	✓	✓								✓	✓			
AL-MIGHTY-GRIP	20	2	28	120	1.9	✓	✓	✓								✓	✓			
AL-MIGHTY-GRIP-LK	20	2	28	120	2	✓	✓	✓								✓	✓			✓
AL-LARGE-GRIP	20	16	35	120	2.1	✓	✓	✓								✓	✓			
AL-LARGE-30-GRIP	30	18	35	120	2.4	✓	✓	✓								✓	✓			
AL-50KN-GRIP	50	18	36	180	4.7	✓	✓	✓								✓	TWIST			
AL-60KN-GRIP	60	28	46	220	7	✓	✓	✓								✓	TWIST			
ABC-S-GRIP	5	4x16 2x16	4x35 2x50	80	0.6				✓							✓	✓			
ABC-M-GRIP	10	4x25	4x95	160	2.4				✓							✓	✓			
ABC-M-GRIP-NS	10	4x25	4x95	160	2.4				✓							✓	✓		✓	
ABC-M-GRIP-S-NS	10	4x25	4x95	160	2.4				✓							✓	✓	✓	✓	
ABC-L-GRIP	18	4x95	4x150	180	2.6				✓							✓	✓			
ABC-L-GRIP-NS	18	4x95	4x150	180	2.6				✓							✓	✓		✓	
ABC-L-GRIP-LK	18	4x95	4x150	180	2.7				✓							✓	✓			✓

* Curved serrated jaw

For more technical details on the above grips refer to SF Electrical catalogue.

WIRE GRIPS (MADE IN JAPAN)

HI-TOOL CO., LTD

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.

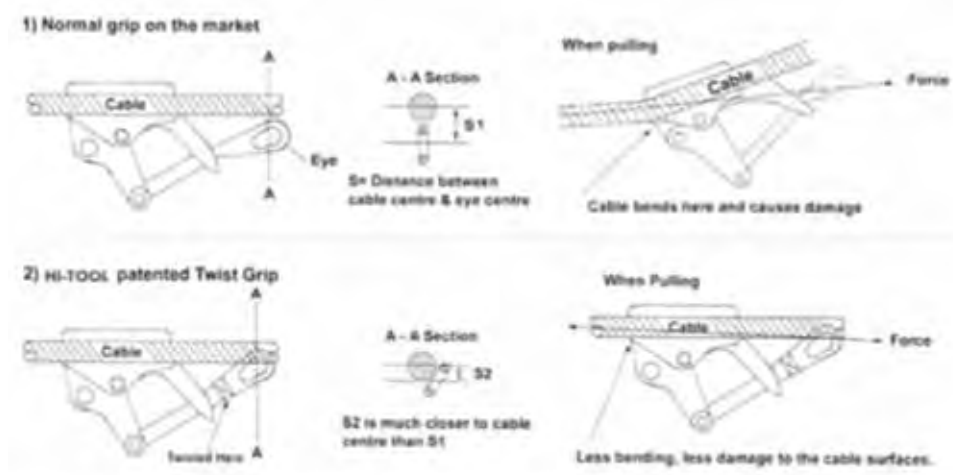
GRIP SELECTION

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)
NP-1500	15	32 x 2	460	1.5	3.6
NEX-1500	15 (Double)	32 x 2	460	1.5 (Double)	3.9
	7.5 (Single)			3.0 (Single)	
NEX-1500-H	15 (Double)	32 x 2	800	1.5 (Double)	4.3
	7.5 (Single)			3.0 (Single)	

RATCHET STYLE WEB-STRAP HOIST

Model No.	Capacity (kN)	Strap Size (mm)	Handle Length (mm)	Pull Length (m)	Weight (kg)
NEL-1500	15 (Double) 7.5 (Single)	32 x 2	460	1.5 (Double) 3.0 (Single)	4.2



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;

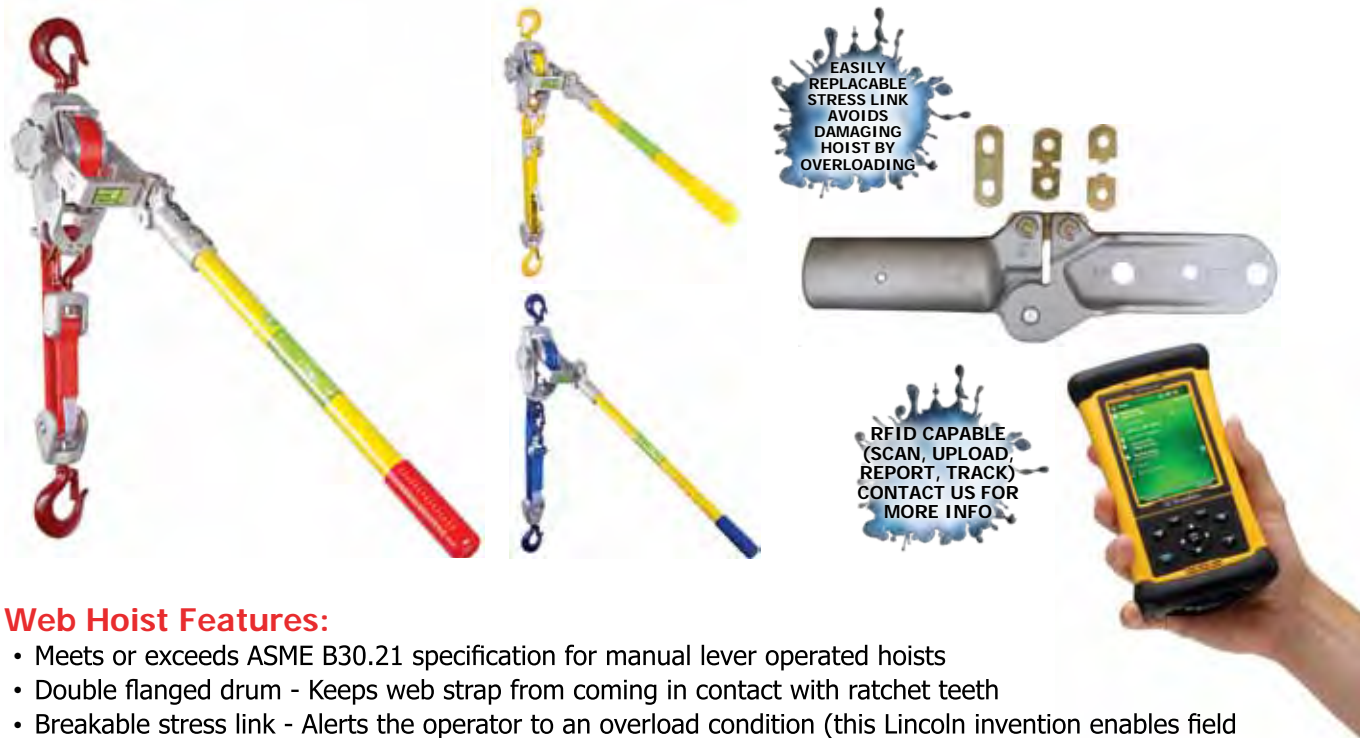
- 1949** Introduced first lever hoist using double interlocking pawls
 - 1964** Patented the first portable hoist with 50 feet of cable
 - 1966** First web strap model introduced
 - 1969** Patented breakable stress link system for use on fiberglass handles
 - 1974** Introduced the first 1240 kg portable 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			
LH 1500-25-ANZ	Small	165	48.3	792.5	330	58.4	419.1	777.2	38.1	3.9
LH 2250-20-ANZ	Small	420	48.3	655.3	790	58.4	350.5	640.1	44.5	4.2
LH 3000-10-ANZ	Small	565	48.3	365.8	1130	58.4	205.7	350.5	50.8	4.0
LH 3000-30-ANZ	Medium	565	53.3	983.0	1130	73.7	520.7	960.1	63.5	6.2
LH 4000-20-ANZ	Medium	725	53.3	690.9	1290	73.7	345.4	670.5	76.2	7.0
LH 6000-15-ANZ	Large	1100	63.5	569.0	2200	87.6	320.0	548.6	139.7	15.4

LINCOLN HOISTS – WEB STRAP & WIRE ROPE (MADE IN USA)

Lincoln Hoist
The Original Ratchet Winch Hoist



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)

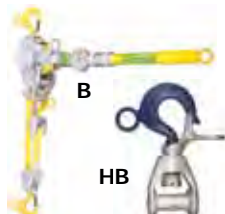
Model No.	Frame Size	Single Line			Double Line			Colour	Web Strap Length x Width (cm)	Handle Length (cm)	Hoist Weight (kg.)
		Cap. (kg)	Single Lifting Distance (cm)		Cap. (kg)	Double Lifting Distance (cm)					
			Min	Max		Min	Max				
2W10L-ANZ-1000	Small	450	45.7	332.7	900	58.4	188.0	Yellow	304.8 x 3	50.8	4.7
3W08-1300-ANZ	Small	680	45.7	271.8	1360	61.0	160.0	Red	243.8 x 3	58.4	4.7
2010060244	Small	680	45.7	332.7	1360	58.4	188.0	Red	304.8 x 3	50.8/76.2	4.7
3W15-1300-ANZ	Medium	680	50.8	482.6	1360	81.3	271.8	Red	304.8 x 3	58.4	6.4
30W08-ANZ	Convertible	680	54.6	276.9	1360	57.2	160.0	Red	243.8 x 3	76.2	4.5
30W08-1300-ANZ	Convertible	680	54.6	276.9	1360	57.2	160.0	Red	243.8 x 3	58.4	4.5
4W12-ANZ	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





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.	PCA1260
WLL (kg)	2000
Description	2m Polyester Sling

SPARE PARTS

Model No.	Description
HLB-P&C	Pin & Chain
HLB-R/CLIP	Pin & R/Clip
HLB-LK	Latch Kit - Spring, Gate & Pin



LATCH KIT
Model No. HLB-LK



PIN & CHAIN
Model No. HLB-P&C

MODEL No. BPE-1 PULLING EYE

- For anchor rod pulling
- Large offset eye for 3 tonne shackle or hook
- Allows clearance for attaching formed wire grips
- Slide wedge design allows for a range of rods sizes
- Cast from high strength iron

Model No.	Anchor Rod Ø (mm)	WLL 5:1 (kg)	Wt (kg)
BPE-1	13-32	2721	2.2



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.



CB-1 shown with RS-1

Model No.	Description	WLL (kg)	Bottom of Groove X (mm)	Height (mm) Inc Socket	Width (mm)	Wt (kg)
CB-1	Roller Universal Stringing Al Sheave	1,135	110	370	205	4.05

MOUNTING BRACKETS FOR UNIVERSAL STRINGING ROLLER

Brackets for mounting universal stringing roller **CB-1**.

Product				
In Use				
Model No.	RS-1	CAB-1	IB-1	AIA-J
Description	Bracket – Ratchet Strap, for ease of mounting CB-1 roller at almost any angle on all size cross-arms, concrete, steel and wooden poles	Bracket – Cross-Arm, allows the CB-1 Roller to be mounted to a cross-arm at almost any angle	Bracket – Insulator Top, with urethane jaws. Allows the CB-1 roller to be mounted to an insulator at almost any angle	Bracket – Insulator Top, allows the CB-1 Roller to be mounted to 22/33kV insulators at almost any angle
Suits	All Cross-Arms. Wood, Concrete & Steel Poles	Cross-Arms up to 146 x 159mm	Insulators, most small to medium neck size	Insulators, most small to large (Including 22/33kV)
WLL (kg)	666	1,135	1,135	1,135

SUSPENSION ADAPTORS FOR UNIVERSAL STRINGING ROLLER

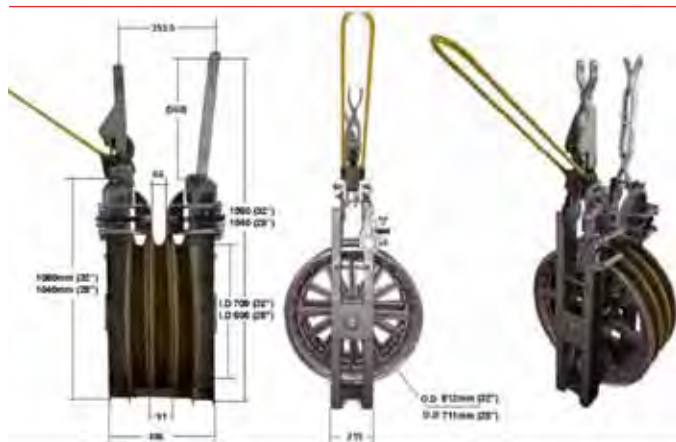
Suspension fittings for suspending rollers with ball-eye socket clevis.

Product			
Model No.	T14	T15	T12
Description	Ball Clevis	"Y" Ball Clevis	Ball Safety Hook

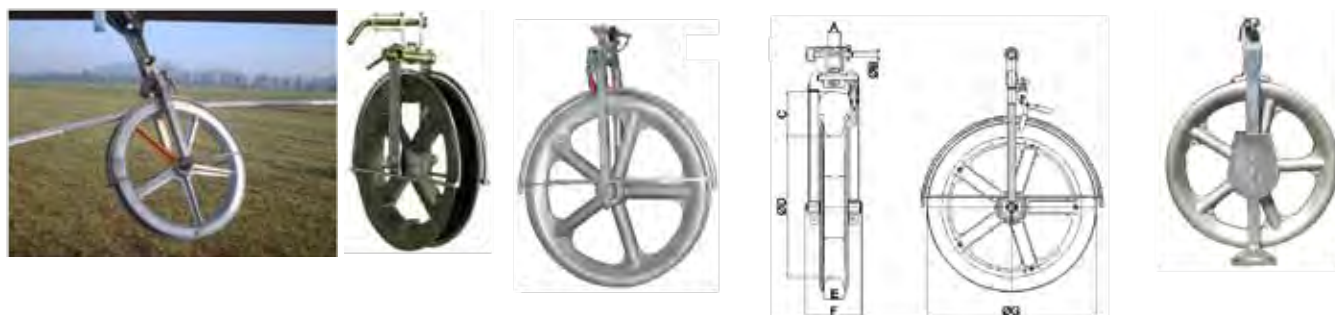
STRINGING ROLLERS ALUMINIUM SHEAVE, URETHANE OR NYLON LINED & HELICOPTER



HELICOPTER BUNDLE STRINGING ROLLERS



SINGLE STRINGING ROLLERS ALUMINIUM OR NYLON & HELICOPTER (MADE IN ITALY)



SINGLE AND MULTIPLE HELICOPTER ROLLERS (MADE IN ITALY)



REFER PAGE 257 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

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
4141	TREE TRIMMING KIT 1,200mmL x 32mm DIA ROUND FOAM FILLED SECTIONS (electrically tested at factory)	6.8kg
4142	TREE TRIMMING KIT 1,800mmL x 32mm DIA ROUND FOAM FILLED SECTIONS (electrically tested at factory)	8.6kg
Optional		
HF4005	ROPE INSULATOR 860mmL	0.136kg
HF-4010	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
4141	4142		
4	-	HF546-4	Stick Ext 1.2m
-	4	HF546-6	Stick Ext 1.8m
1	1	HF4125	Cutter Head
1	1	HFA18007	Stick Base Cap
1	1	HFA10012	Adaptor Universal Head
1	1	HFP10046	Universal "S" Hook
1	1	HFA11000	Saw Pruning Universal
1	1	HFA10016	Handle Universal Saw
1	1	HFA30007	Scabbard for Saw
1	-	HF01-020	Carry Bag 1.2m Sticks
-	1	HF01-021	Carry Bag 1.8m Sticks



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)
HFMV-25*	7.8	1.6	TE2607	3.7
HFMV-30*	9.2	1.7	TE2607	4.6
HFMV-35*	10.5	1.7	TE2607	5.5
HFMV-40*	12	1.8	TE2608	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	
HF546-4/KIT	Insulated Stick Kit, 1200mm sections	HF5467-4*	1200mm Extension c/w Sunrise Head	1
		HF546-4*	1200mm Extension	4
		HFP10431*	Universal disconnect hook	1
		HFA10012*	Sunrise adaptor	1
		HFA30002*	Hand Guard	1
		FEH*	Fuse extraction head – pigtail	1
		HF01-020*	Vinyl Carry Case	1
HF546-6/KIT	Insulated Stick Kit, 1800mm sections	HF5467-6*	1800mm Extension c/w Sunrise Head	1
		HF546-6*	1800mm Extension	4
		HFP10431*	Universal disconnect hook	1
		HFA10012*	Sunrise adaptor	1
		HFA30002*	Hand Guard	1
		FEH*	Fuse extraction head – pigtail	1
		HF01-021*	Vinyl Carry Case	1

*Replacement parts are also sold individually. Other sticks KITS available upon request

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)
F 280.40.P	PULLER	325	13-16	26.0	F61	40
F 200.AF.45.2	PULL/TENSIONER	1200	16	65.0	F62	45
F 200.AF.75.2	PULL/TENSIONER	1200	18	77.0	F63	75
F 120.AF.45.2	PULL/TENSIONER	1500	16	65.0	F64	45
F 200.AF.90.2	PULL/TENSIONER	1200	18	105.0	F65	90
F 120.AF.90.2	PULL/TENSIONER	1500	18	105.0	F66	90
F 120.AF.150.42	PULL/TENSIONER	1500	4X32	175.0	F67	1x150/2x75
F 105.150.22	PULLER	650	2x28	215.0	F68	150
F 120.150.42	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

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

#BY3 (Made in Japan)

#61317-6P



#61317-6PL



#19

#30

#24

#17

LIVE WORKING MATS

LV RUBBER MAT

MODEL No.: 181A

DESCRIPTION

1m x 1m x 6mm thick, conforms with AS 2978 Class "A" maximum use 650V. High grade black EPDM rubber, UV resistant, non-slip finish. Each mat individually tested and stamped, certificate available on request. Utilised by electrical workers for standing on when working in front of pits, pillars, kiosks, substations, street light columns, switchboards and panels.



HV RUBBER MAT

MODEL No.: 1813

DESCRIPTION

1m x 1m x 6mm thick, conforms with IEC 61111 Class "3" maximum use 26.5kV. High grade black EPDM rubber, non-slip finish, flexible and light weight. Each mat individually tested and stamped, certificate available on request. Utilised by electrical workers for standing on when working in front of switchboards and panels.



LOW VOLTAGE RESCUE KITS

MODEL No.: 11002

Kit Contains:

- LV Crook
- LED Torch
- Fire Blanket
- LV Rubber Gloves
- "Isolate Here" Tag
- Multi Trauma Dressing
- Storage Bag and CPR Card



DESCRIPTION

Used for safe emergency rescue of victims of electric shock or other injuries on LV switchboards and electrical apparatus. All components meet relevant standards, the crook has been tested to 5KV and the torch is non-conductive.



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DB SERIES INSULATED HARD LINE COVERS (TIGER TAILS & LION TAILS)



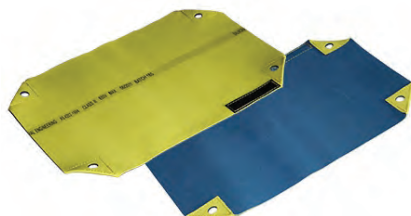
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These line covers (commonly known as Tiger & Lion Tails) are certified to AS4202 and are used for temporary insulation for low voltage live working or additionally on building and construction sites to warn trucks and cranes of overhead power lines. Weather resistant, highly durable and OH&S compliant.

Model No.	Box Qty	Description	Length (m)	Size ID (mm)	Material	Class	Insulation Voltage (VAC)
DB35A	20	Tiger Tails	2.50	35	HDPE	1	650
DB45A	20	Tiger Tails	2.50	45	HDPE	1	650
LS70	10	Tiger Tails	2.00	70	HDPE	1	650
DB35ARB125	20	Tiger Tails	1.25	35	HDPE	1	650
DB35ARB	20	Tiger Tails	2.50	35	HDPE	1	650
DB45B	10	Lion Tails	2.00	45	HDPE	2	15000
DB35B	10	Lion Tails	2.00	35	HDPE	3	26000

LOW VOLTAGE BLANKETS, COVERS & DRAPES



An extensive range of high quality PVC and EDPM compounds utilised by utilities and electrical contractors to provide a temporary electrical insulation barrier during maintenance of pits, substations, switchboards, streetlights, pillars, busbars, transformers and metering.

All items are certified class II to AS4202, rated 650VAC insulation voltage.

Model No.	Description	Length (m)	Width (mm)	Material	Fastening
8008	LV Substation Drape	850	850	PVC	Magnets
9001**	LV Substation Drape	1200	1200	PVC	-
9009**	LV Substation Drape	1200	1200	EDPM	-
9016A	LV Busbar Cover	1000	100	EDPM	-
9017	LV Busbar Cover	600	300	EDPM	-
9018	LV Busbar Cover	300	300	EDPM	-
10007	LV Substation Drape	300	225	EDPM	Eyelets
10008	LV Substation Drape	450	300	EDPM	Eyelets
10009	LV Substation Drape	600	450	EDPM	Eyelets
10010	LV Substation Drape	900	600	EDPM	Eyelets
10011	LV Substation Drape	1800	900	EDPM	Eyelets
10018	LV Pit Cover	1500	1200	PVC	-
10019	LV Pit Cover	1200	900	PVC	-
11000	LV Scaffolding Kit	Multiple	Multiple		Velcro & Pegs
12000	LV Column Insert				Velcro

** Also available in metre lengths

RUBBER GOODS CLEANER



High quality environmentally safe and non-toxic rubber goods cleaner, available in wipe or spray.
Approved for use on Mats & Covers, Gloves & Sleeves

Model No.	Description
RBG-35LR	Spray Bottle (0.95L)
RBG-D72	Tub (72 Wipes)

POLE TOP RESCUE KITS

Model No.	State
11006	NSW*

Pole top rescue kits made to state specifications*. Contains bag, resuscitation chart, body belt/pole strap, knife, rope, 1000V insulated gloves, etc.

* Other state kits available, contact Specialised Force for more information



balmoral engineering



LOW VOLTAGE BLANKETS, COVERS & DRAPES




An extensive range of high quality PVC and EDPM compounds utilised by utilities and electrical contractors to provide a temporary electrical insulation barrier during maintenance of pits, substations, switchboards, streetlights, pillars, busbars, transformers and metering.


All items are certified class II to AS4202, rated 650VAC insulation voltage.

Model No.	Description	Length (m)	Width=W/Drop=D (mm)	Material	Fastening
2001	LV Line Cover	1200	225 D	PVC	Studs
2003	LV Line Cover	1200	225 D	PVC	Magnets
2004	LV Line Cover	1200	225 D	EDPM	Velcro
2006	LV Line Cover	600	225 D	EDPM	Velcro
2009	LV Line Cover	600	450 W	PVC	-
3001	LV Line Cover	1200	300 D	PVC	Studs
3002	LV Line Cover	1200	300 D	EDPM	Velcro
3003	LV Line Cover	1200	300 D	EDPM	Magnets
3004A	LV Line Cover	1200	300 D	PVC	Magnets
3005	LV Point of Attachment Cover	1200	600 W	PVC	-
4001	LV Line Cover	1200	375 D	PVC	Studs
4004	LV Line Cover	1200	375 D	PVC	Magnets
5001	LV Line Cover	1500	225 D	PVC	Studs
5002	LV Line Cover	1500	225 D	PVC	Magnets
5003	LV Line Cover	1500	225 D	PVC	-
5004	LV Point of Attachment Cover	600	450 W	PVC	-
7001	LV Cross Arm Cover	1200	375 D	PVC	Studs
7002	LV Coaxial Catenary Cover	1200	225 D	EDPM	Velcro
7004	LV Cross Arm Cover	1200	225 D	EDPM	Velcro
7008	LV Cross Arm Cover	1200	225 D	PVC	Magnets
8001	LV Fuse Link Cover	600	375 D	PVC	Studs
8002	LV Coaxial Catenary Cover	600	225 D	PVC	Studs
8006	LV Coaxial Catenary Cover	600	225 D	PVC	Magnets
8007	LV Fuse Link Cover	850	850 W	PVC	-
8010	LV Fuse Link Cover	850	700 W	EDPM	Velcro
8016	LV Fuse Link Cover	400	400 W	PVC	Studs




GUY GUARDS

Image	Model No.	Description	Dimensions	Certification
	GG	For Stay & Guy Wires (Not Rated For Electrical Insulation)	2m x 45mm	HDPE

JUMPER WIRE GUARDS

Image	Model No.	Description	Class	Working Voltage (VAC)	Dimensions	Certification
	IPEP	Flexible hose for covering Bonds, Bridges & Jumper Wires	I	650	10m x 35mm	AS4202

PANTHER TAILS

Image	Model No.	Description	Class	Working Voltage (VAC)	Dimensions	Certification
	TPP20	Unique 2 tone design	2	15kV	3m x 20mm	AS4202 – HDPE
	TPP35				3m x 35mm	
	TPP15*		2	15kV	60m x 15mm ROLL	AS4202 EVA
	TPLBL	Label	2	15kV		AS4202

* Installation tool (TPP15-TL) available upon request

WM SERIES LINE WARNING MARKERS & FLAGS

			
3D Eye Ring R/W WM-CS-E-1D-RW	3D Eye Ring B/W WM-CS-E-1D-CP	3D Eye Ring B/Y WM-CS-E-1D-BY	Flag Eye Ring Orange WM-CS-E-1B-O
			
Mini 3D Eye Ring R/W WM-CS-E-1E-RW	Mini 3D Eye Ring B/W WM-CS-E-1E-BW	Mini 3D Eye Ring B/Y WM-CS-E-1E-BY	

FEATURES

- Aerodynamic design, rotates for high impact visibility
- Anti-creep Clamp design
- Installed with standard Live Line Tools
- UV stabilised and tough non-conductive plastics
- Latest technology articulated 3D design
- Premium High – Vis Reflectors
- Eye Ring fitting
- Customised flags or marker options available. Universal clamp fits all lines from 2 - 50mm diameter



All Rights Reserved Patent Pending

Model No.	Product Type	Line Attachment	Hot Stick Attachment	Style of Warning Device	Colour
WM-CS-E-1D-RW	Warning Marker	Clam Shell	Eye Ring	3D	Red/White
WM-CS-E-1D-BW	Warning Marker	Clam Shell	Eye Ring	3D	Black/White
WM-CS-E-1D-BY	Warning Marker	Clam Shell	Eye Ring	3D	Black/Yellow
WM-CS-E-1B-O	Warning Marker	Clam Shell	Eye Ring	Flag	Orange
WM-CS-E-1E-RW	Mini Warning Marker	Clam Shell	Eye Ring	3D	Red/White
WM-CS-E-1E-BW	Mini Warning Marker	Clam Shell	Eye Ring	3D	Black/White
WM-CS-E-1E-BY	Mini Warning Marker	Clam Shell	Eye Ring	3D	Black/Yellow

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)

IZUMI

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. REC-55PDF BATTERY HYDRAULIC PUNCH (MADE IN JAPAN)

The REC-55PDF is a battery operated punch driver with swivel head for easy access to tight enclosed control or switchboard panels.

The REC-55PDF features a punching capacity of 3.2 mm thick mild steel with 104mm holes and 1.6mm thick stainless steel with 104mm holes.

SPECIFICATIONS

Ram stroke	18 mm
Motor	14.4 VDC
Reservoir capacity	55 cc
Output force	7.5 tonne
Dimensions (mm)	355 x 240 x 75
Weight (kg)	4.4 (inc. battery)

The number of holes per battery charge for 90mm OD hole on 3.2mm steel is approx. 55 with (BP-80LI BATTERY)

Refer pages 271–272 for available punches and dies.

ACCESSORIES

Double moulded carrying case available upon request

ORDERING INFORMATION (Refer page 200 for Battery & Charger details)

MODEL REC-55PDF(BB) Includes: Battery Puncher, Shoulder Strap, Plastic Carrying Case, Draw Studs 3/4" & 3/8", Collars (L, M, S, SS), 1 x Short Stud Adaptor (3/4" x 3/8") 2 Batteries (**BP-80LI**) and 12/24VDC-230VAC Charger (**CH-100**) and case



REC-55PDF

Punches sold separately

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

REFER PAGES
271-272 FOR
PUNCHES
AND DIES



Punches & Draw Studs
Sold Separately

SPECIFICATIONS

Model No.	Kit Contents	Battery	Force (Tonne)	Wt (kg) TOOL ONLY
LS100L(BB)*	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
03138	LS100 Punch Driver & Case (LS100BB)
52176	Battery 18V Li-Ion 3.0Ah
52179	Charger, Battery Li-Ion 230VAC
20963	Draw Stud 3/8" (3/4") x 122mm Long
10109	Drawstud 3/4" x 136.5mm Long (2113B)
03248	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
03170	Sleeve (1557AA) - For punching holes 102.7 to 161.9mm

STAINLESS STEEL	
Model No.	Description
29451	Draw Stud - For punching holes up to 22.5mm
29452	Draw Stud - For punching holes up to 28.3 to 90mm
00785	Sleeve (1557SS) - For punching holes up to 102.7 to 115.4mm



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	PD-16.2MS	10-04 OR 30043 – 3/8"
20.4	PD-20.4MS	10-04 OR 30043 – 3/8"
22.5	PD-22.5MS	10-04 OR 30043 – 3/8"
25.4	PD-25.4MS	10-04 OR 30043 – 3/8"
32.5	PD-32.5MS	10-05 OR 03294 – 3/4"
40.5	PD-40.5MS	10-05 OR 03294 – 3/4"
50.8	PD-50.8MS	10-05 OR 03294 – 3/4"
63.5	PD-63.5MS	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)	Model No.	Draw Stud Used
Round Hole Size (mm)	Model No.	Draw Stud Used
16.2	PD-16.2SS	30043 – 3/8" (1.6mm Thick)
20.4	PD-20.4SS	29451 – 7/16" (2.5mm Thick)
22.5	PD-22.5SS	29451 – 7/16" (2.5mm Thick)
25.4	PD-25.4SS	29451 – 7/16" (2.5mm Thick)
32.5	PD-32.5SS	29452 – 3/4"
40.5	PD-40.5SS	29452 – 3/4"
50.8	PD-50.8SS	29452 – 3/4"
63.5	PD-63.5SS	29452 – 3/4"



Model No.	Description
PD-SET-MS	Mild Steel Punch & Die Set, Includes 7 Sizes: 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm
PD-SET-SS	Stainless Steel Punch & Die Set, Includes 7 Sizes: 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm

SQUARE PUNCHES

Type	BRASS/ALUMINIUM/ETC (Max 3.2mm Thick)	
SQUARE Hole Size (mm)	Model No.	Draw Stud Used *
25.4	PD25.4-SQ	03S0034060 (1/2" X 3/4")
45	PD45-SQ	03S0036060
46	PD46-SQ	03S0036060
68	PD68-SQ	03S0036060
92	PD92-SQ	03S0036060



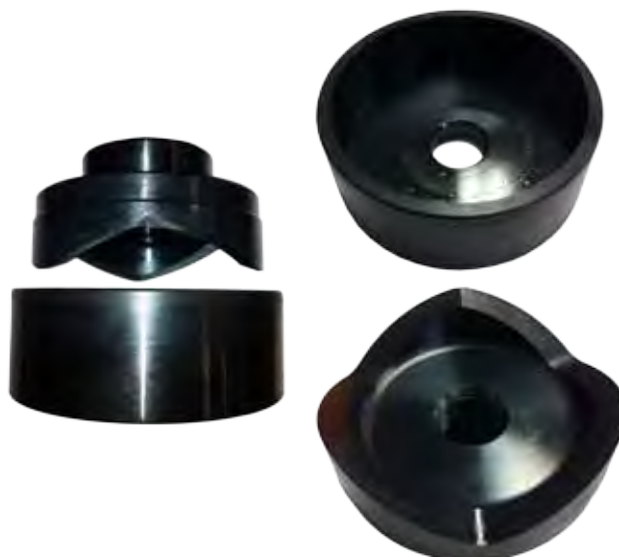
*Note that Square Punches are supplied with Draw Stud

KNOCK OUT PUNCH & DIES (MADE IN JAPAN)



For use with hydraulic punch driver. A premium grade range of punch & dies manufactured from high grade tool steel for mild steel, ensuring accurate holes and long punch life. For mild steel up to 3.2mm thick.

Round Hole Size (mm)	Model No.	Draw Stud Used (UNF)
21.9	16	3/8
20.0	19	3/8
26.3	25	3/8
27.4	22	3/4
32.7	31	3/4
34.2	28	3/4
39.0	39	3/4
42.8	36	3/4
48.7	42	3/4
51.7	51	3/4
60.5	54	3/4
64.4	63	3/4
76.0	70	3/4
77.1	75	3/4
88.8	82	3/4
102.5	92	3/4
115.2	104	3/4



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

NOTE: Punch and die supplied as set, not available individually. Requires punch unit (manually operated, hydraulic, battery, electric) with draw stud to utilise



DRAW STUDS FOR MANUAL DRIVERS

Replacement Draw Stud Selection Guide. Refer to the pictures and information below when ordering a replacement draw stud.

Mid Section	Circular	Circular	Circular	Circular
Picture				
Model No.	04042	00042	04040	04218
Length (mm)	75.0	41.0	54.0	35.0
OD (mm)	19.0	9.5	19.0	6.4
Thread (UNF)	3/4	3/8	3/4	1/4
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									
		Stainless Steel		Stainless Steel				Stainless Steel	
Model No.	10-04	30043	20963*	29451	10-14^ (ADAPTOR)	31872+	10-05	29452	10109<
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.	60116	60117	34421	60115	60166	60118	60167 (ADAPTOR)
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 268)

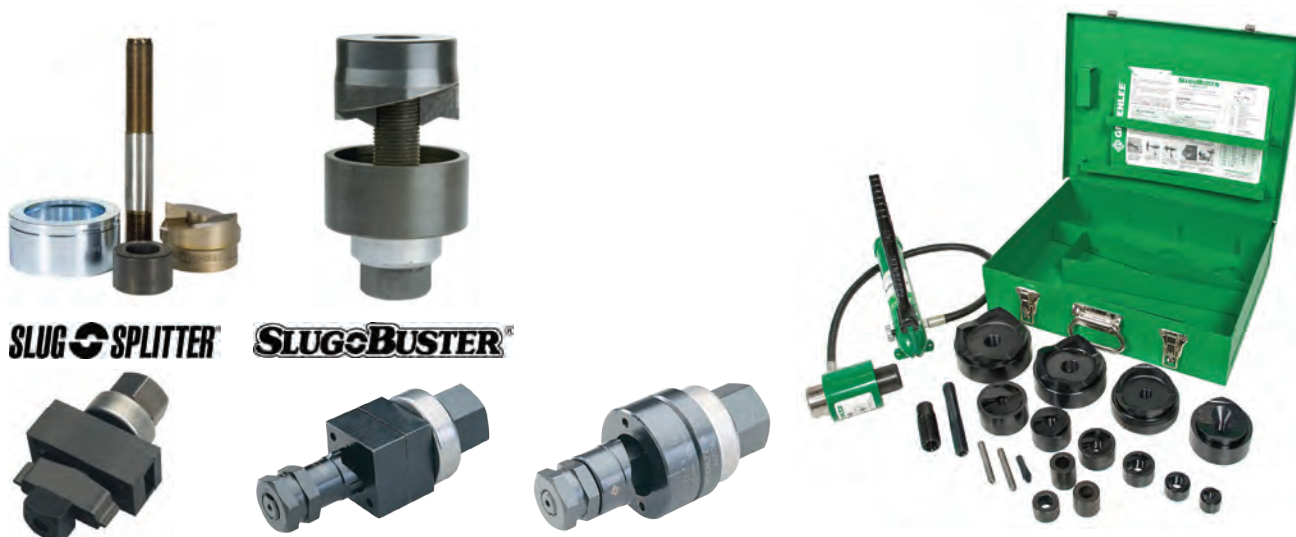
Model No.	Type	Thickness (mm)	SH-10	SH-5
5PDF-48	Extra Small	13		✓
10-03	Small	26	✓	✓
10-02	Medium	31	✓	✓
10-01	Large	38	✓	✓



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.



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



Steel

Copper

IZUMI



**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
SH-70B6PDCU	6MM PUNCH AND DIE CU	SH-70B14PDCU	14MM PUNCH AND DIE CU
SH-70B6PDST	6MM PUNCH AND DIE ST	SH-70B14PDST	14MM PUNCH AND DIE ST
SH-70B7PDCU	7MM PUNCH AND DIE CU	SH-70B15PDCU	15MM PUNCH AND DIE CU
SH-70B7PDST	7MM PUNCH AND DIE ST	SH-70B15PDST	15MM PUNCH AND DIE ST
SH-70B8PDCU	8MM PUNCH AND DIE CU	SH-70B16PDCU	16MM PUNCH AND DIE CU
SH-70B8PDST	8MM PUNCH AND DIE ST	SH-70B16PDST	16MM PUNCH AND DIE ST
SH-70B9PDCU	9MM PUNCH AND DIE CU	SH-70B17PDCU	17MM PUNCH AND DIE CU
SH-70B9PDST	9MM PUNCH AND DIE ST	SH-70B17PDST	17MM PUNCH AND DIE ST
SH-70B10PDCU	10MM PUNCH AND DIE CU	SH-70B18PDCU	18MM PUNCH AND DIE CU
SH-70B10PDST	10MM PUNCH AND DIE ST	SH-70B18PDST	18MM PUNCH AND DIE ST
SH-70B11PDCU	11MM PUNCH AND DIE CU	SH-70B19PDCU	19MM PUNCH AND DIE CU
SH-70B11PDST	11MM PUNCH AND DIE ST	SH-70B19PDST	19MM PUNCH AND DIE ST
SH-70B12PDCU	12MM PUNCH AND DIE CU	SH-70B20PDCU	20MM PUNCH AND DIE CU
SH-70B12PDST	12MM PUNCH AND DIE ST	SH-70B20PDST	20MM PUNCH AND DIE ST
SH-70B13PDCU	13MM PUNCH AND DIE CU	SH-70BPDCU	COPPER PUNCH & DIES COMPLETE SET ONLY
SH-70B13PDST	13MM PUNCH AND DIE ST	SH-70BPDST	STEEL PUNCH & DIES COMPLETE SET ONLY

CABLE PREPARATION TOOLS - CABLE STRIPPERS (MADE IN EUROPE)

intercable

High quality Italian range of stripping tools and accessories, for more technical detail



Model No	Description	Applications	Cable Capacity (mm)	Thickness (mm)	Notes	Wt (kg)
AV6220	Universal	LV, MV, Telecommunication	25+	0-5	Insulated Version Available	0.2
AE6210	Outer Sheath	LV, MV	25-60	0.5-5	Kit w/Bag & Knife	0.9
AV3920	Insulated Knife	All	N/A	N/A	1,00VAC Insulated	0.2
AE6200	Insulated Wire	Live Wires	2.5/4/6mm ² 10mm Cross Section		1,00VAC Insulated	0.2
17220	Semi-Conductor Screen Removal	MV & HV Vulcanised Semi-Conductor Screen	10-52	0-1.5	Kit w/Gel, Wrench & Case	0.8
17240	Chamfer	MV	15-60	N/A	2 x 60°, 220mm Max Rotation	0.4
17230	Internal Insulation Cutting	MV 6-45kV	15-52	0-15	5 Step Feed, 220mm Max Rotation	1.0

SPECIFICATIONS

Model No	Description	Applications	Cable Capacity (mm)	Thickness (mm)	Notes	Wt (kg)
AV6220	Universal	LV, MV, Telecommunication	25+	0-5	Insulated Version Available	0.2
AE6210	Outer Sheath	LV, MV	25-60	0.5-5	Kit w/Bag & Knife	0.9
AV3920	Insulated Knife	All	N/A	N/A	1,00VAC Insulated	0.2
AE6200	Insulated Wire	Live Wires	2.5/4/6mm ² 10mm Cross Section		1,00VAC Insulated	0.2
17220	Semi-Conductor Screen Removal	MV & HV Vulcanised Semi-Conductor Screen	10-52	0-1.5	Kit w/Gel, Wrench & Case	0.8
17240	Chamfer	MV	15-60	N/A	2 x 60°, 220mm Max Rotation	0.4
17230	Internal Insulation Cutting	MV 6-45kV	15-52	0-15	5 Step Feed, 220mm Max Rotation	1.0

CABLE STRIPPING TOOLS (MADE IN AUSTRALIA)



Model No	Description	Applications	Cable Capacity (mm)	Thickness (mm)	Notes	Wt (kg)
IR	Universal "D" Ripper Stripper					
HCS40	Sheath, Scoring & Insulation Remover					
HSCS1342	Semi-Conductor Stripper					



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
1542-2CL	Insulation Stripper	Remove PE, XLP, EPR from HV	12.7-44.5	Variations available
1700	Adjustable Blade Scorer	HV	12.7-50.8	Blade variations available
CT-1	Chamfer Tool	Terminations	12.7-34.9	-
CT-2	Large Chamfer Tool	Terminations	24.1-69.9	-



Safety, Lighting & Flags



www.specialisedforce.com.au



SAFETY, LIGHTING & FLAGS

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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)
BLUE FLAG	600 x 450	Wooden Dowell	20	225
GREEN FLAG				
ORANGE FLAG				
RED FLAG				
WHITE FLAG				
YELLOW FLAG				



MODEL NO. 2310037FS RAIL FOLDING FLAG STAND (MADE IN CANADA)

An economical and lightweight rail mounted folding flag stand designed to be used with multiple flag attachments and orientations. Quick and simple to attach and remove from rail. Designed for use with the 2310027 series flag signs pictured on right and below. Note flag signs are sold separately to mounting flag stand.

FEATURES

- Manufactured from high strength, 25.4mm square steel tube
- Equipped with keeper pin
- Pin allows staff to be locked in either upright or folded position
- 204mm centre mounting bolts allow multiple flag attachments and orientations

Model No.	Dimensions (mm)		Unit Wt (kg)
	Extended	Folded	
2310037FS*	203 x 305 x 1,474	203 x 305 x 978	5

* Note flags sold separately as per below

MODEL NO. 2310027 SERIES REFLECTIVE FLAG SIGNS

Designed for use with 2310037FS folding rail flag stand.

Model No. 2310027UR	Model No. 2310027UB
A reflective, red or blue flag sign made from lightweight aluminum. Double-sided and measuring 457 x 305mm, this flag is key-hole drilled to orient either vertically or horizontally.	



"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 6volt 4Ah rechargeable battery with up to 30 hours life per full battery charge. They are weather proof and come with adjustable stand and carry strap.

All units are supplied with both AC and DC battery chargers.

Warranty: 12 months from date of purchase.

Model No.	Lights	Type
RGWA	White, Green, Red and Amber LEDs and torch.	Standard
RGW	White, Green and Red LEDs and torch.	Special

NOTE: Custom built models available upon request.

Kit Includes All Items

- Torch
- Shoulder Strap
- Instruction Manual
- 230 VAC Charger
- 12 VDC Charger

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



HEADLAMPS

MODEL NO # 7625 HEADLAMP (MADE IN USA)

The number 1 helmet light for Industrial Workers and Utility Lineman is now even better! The Ultimate III has two times the lumens and longer burn times!

FEATURES

- Extremely Bright 50 Lumens
- Intrinsically Safe (Class 1 Div, 1)
- Lightweight and Waterproof
- Four Light Modes (high, medium, low, flashing)
- Adjustable Beam
- Extremely Rugged and Chemical Resistant
- Stretch Rubber
- Head Band Kit
- Secure Helmet Mounting

Utilising a unique "Superbrite LED" and proprietary optics, the ULTIMATE III is optimal for both localised needs and long distant spotting requirements (in fact, it is so powerful on the high setting that it can be used as a flashlight). Realising that workers need different amounts of light for different conditions and situations – the ULTIMATE III is equipped with three brightness levels and a blinking emergency/signalling mode.



SPECIFICATIONS

- Power: 50 Lumens
- Lamp: Shock Resistant LED
- Batteries: 3 AAA Alkaline
- Burn Time: 60+ hrs (low)
- Weight: 105g



NIGHTSEARCHER – LED HEAD TORCH RANGE

Model No. NSHT550R Key features:

- **Rechargeable** Li-ion head torch
- 550 Lumens light output
- 550m beam
- 3 Light modes: spot, wide beam and distance dimming
- Rechargeable via USB cable
- Runtime: 7.5hrs high | 169hrs low

Optional extras:

- AC/DC vehicle charging adaptors
- Helmet clips

Model No. NSHT340R Key features:

- **Rechargeable** Li-ion head torch
- 340 Lumens light output
- 200m beam
- 3 Light modes: spot, wide beam and distance dimming
- Rechargeable via USB cable
- Runtime: 3hr 30min high | 78hrs low
- Supplied with: USB charging cable

Optional extras:

- AC/DC vehicle charging adaptors

Model No. NSHT180 Key features:

- **Non-Rechargeable**
- Powered by 3 x AAA batteries
- 180 Lumens light output
- 100m beam
- 3 Light modes: spot, wide beam and distance dimming
- Runtime: 3hrs high | 130hrs low



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
NSSOLARISLEGS-MK2	Stability Legs
NSSOLARISLENS-O/R/B/G	Lens O-Orange/R-Red/B-Blue/G-Green



Model No. NSSOLARIS-36AH16K

Coloured Lens not included - see accessories below



**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

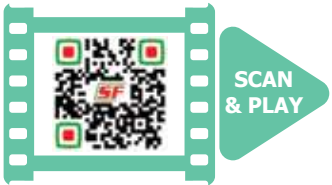
- 3 Light mode: 3500 lumens (HIGH), 1750 lumens (HALF) & Dimmable
- Rechargeable Li-ion worklight
- 3500 lumens (HIGH) - 1500 lumens (LOW)
- Runtime: 4 hours (HIGH) - 8 hours (LOW)
- Battery: 7.4V 13.2 Ah Lithium-ion
- Storage on the reverse for mains charger
- Robust, durable construction - Polycarbonate
- Designed to meet IP54
- Silent operation
- Dimmable (10-100%)
- Change the angle to suit your need
- High visibility reflector

ACCESSORIES

Model No	Description
SPTRIPD1.7	Tripod
SPGALAXYPRO-MAG	Magnetic Feet (3)
CHIC-GALAXYPRO	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.	NSPULSARB (Blue) NSPULSARR (Red) NSPULSARY (Yellow) NSPULSARG (Green) NSPULSARIR (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



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

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

Model No.	Dimensions	Weight
NSLIFEGUARD	158x47x22mm (LxWxH)	127g



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

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

Model No.	Dimensions	Weight
NSSTARBOOSTER	166x96x31mm (LxWxH)	447g (Including Battery)



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.	HB6108
WLL	15kN
Suitable Rail Sizes	41, 50, 53, 60 & 68kg
Weight	7.0kg



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.	2864-8DTR-SF24
Description	600mm Lifting Straps
Dimensions (m)	2.4 x 2.4
WLL (kg)	1350
Colour	Safety Orange



Folded up for easy storage



Laid flat



Certified, cyclic load tested over 70 times!



Manufacture label with rating/care/warning

MODEL No. ME-CAD1 CROSS ARM DRILL

Designed to drill over a king bolt and assist in the removal of wooden crossarms from power poles.

SPECIFICATIONS

Model No.	ME-CAD1
Material	Main Body: High strength precision tube Hex and drill head: High tensile steel, heat treated for additional strength and durability Attachments: 10mm Titanium carbide
Mass	Approx. 1.2kg
Maximum Bolt Size	24mm Dia.
OAL Dimensions (mm)	375 L x 48 Ø x 34 Hex (A/F)
Weight (kg)	1.2

FEATURES

- High strength, light weight design
- For use with 1/2" drive adapter
- Replaceable drilling inserts incorporated into the design of the drill head held in place with Torx screws for ease of replacement (1 set included, additional inserts and Torx screws may be purchased in sets of 10). Torx Screwdriver not included
- Inbuilt drilling support to increase stability and minimise vibrations during drilling procedures
- Improved design for rapid chip removal
- Designed in conjunction with Australia's leading power companies
- For use with hydraulic impact wrench or electric power drill



LOAD CONTAINMENT NETS

Contain packages and loose items in the back of your Truck, Ute or Trailer



Type	11 Sizes Available	Break Force (kg)
POLYETHYLENE (PE)	(Blue) has a Strand & Knotted appearance	68

Model No.	Size (m)
LCNPE1.8X1.5	1.8x1.5
LCNPE1.8X2.4	1.8x2.4
LCNPE2.0X2.4	2.0x2.4
LCNPE2.1X2.1	2.1x2.1
LCNPE2.4X2.4	2.4x2.4
LCNPE2.2X2.6	2.2x2.6
LCNPE2.0X3.0	2.0x3.0
LCNPE2.4X3.0	2.4x3.0
LCNPE4.0X3.0	4.0x3.0
LCNPE5.0X3.0	5.0x3.0
LCNPE6.0X3.0	6.0x3.0
LCN-TIE DOWN	10 ropes per Pack



BLUE NET (PE) SHOWN IN CARRY BAG



TIE-DOWN ROPES AVAILABLE (10 PER PACK) Model No. LCN-TIE DOWN

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





SPECIALISED FORCE
HYDRAULIC TOOLS &
SPECIALISED EQUIPMENT
PTY. LTD.

Reference



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REFERENCE

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RAIL GAUGE

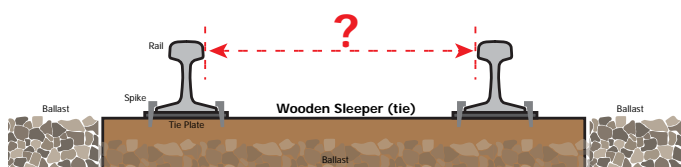
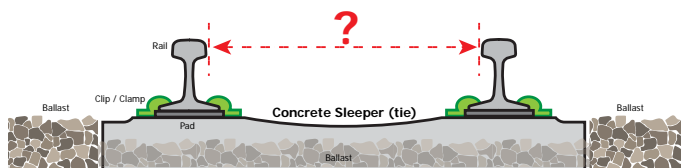
AUSTRALIAN RAILWAY GAUGES

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"])



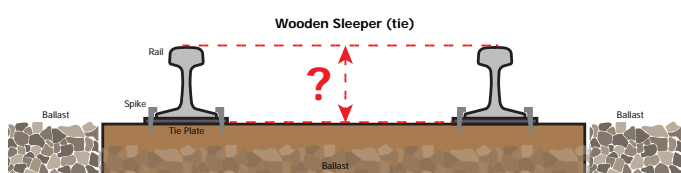
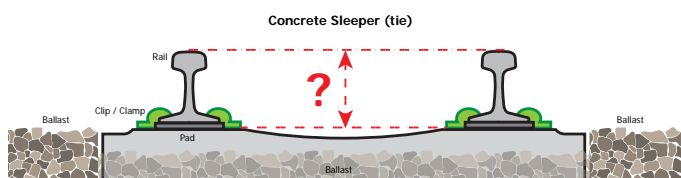
The following identifies each state or territory and their rail gauge types:

- 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.



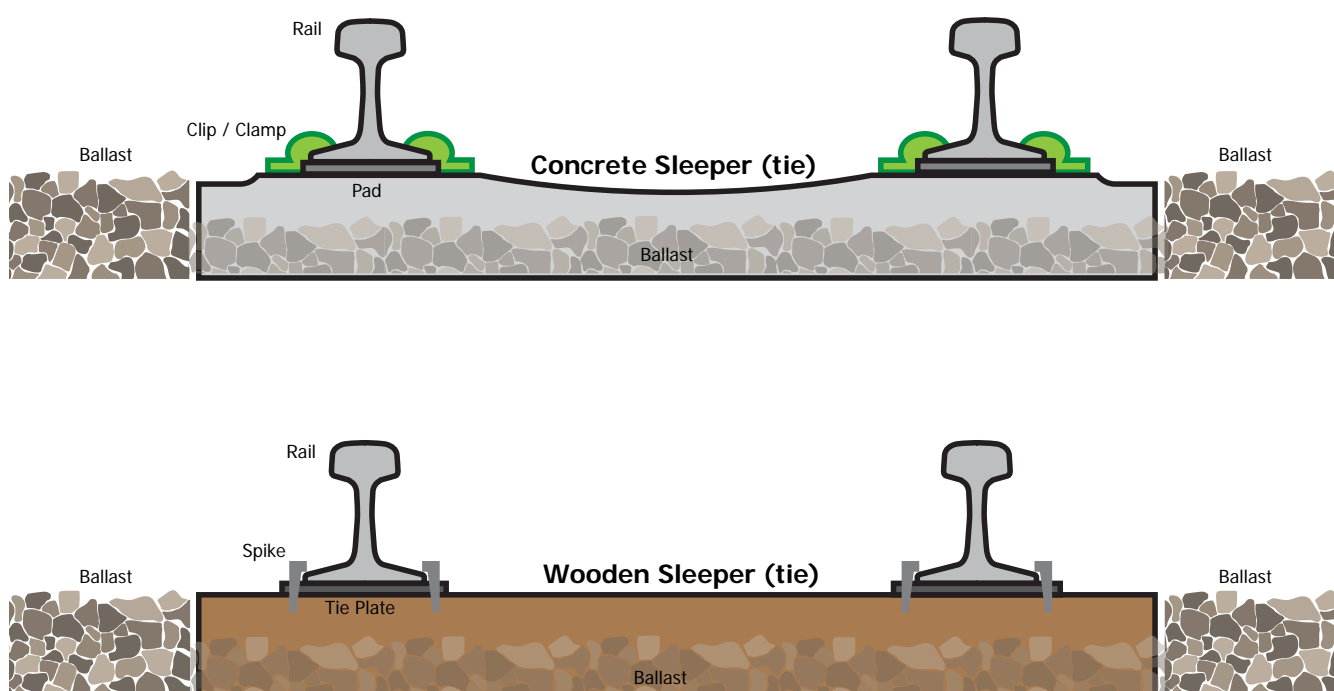
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RAIL FASTENING SYSTEMS

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:

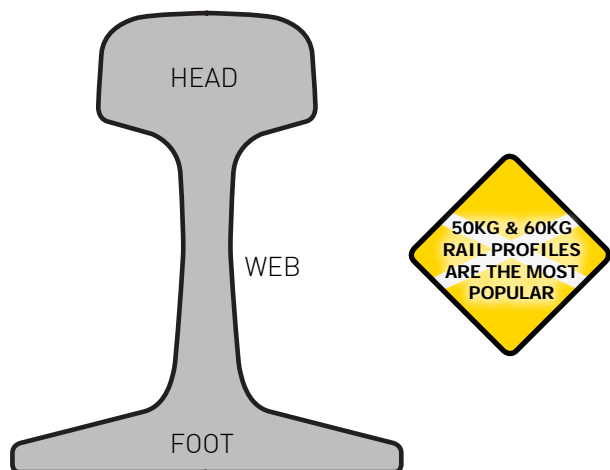


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RAIL PROFILE, WEIGHT, SIZE & FASTENING

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 301–303 for common rail profiles.

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.

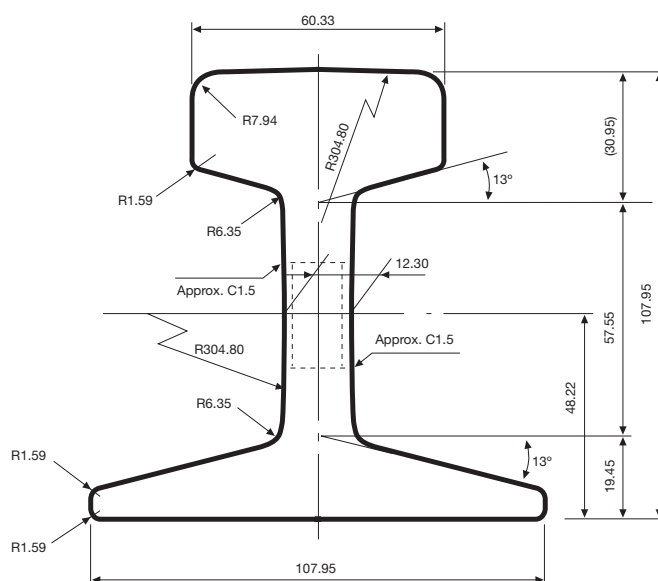
30KG & 41KG RAIL PROFILES

Rail profiles supplied courtesy of EMRAILS – The Australian Rail Stockist.



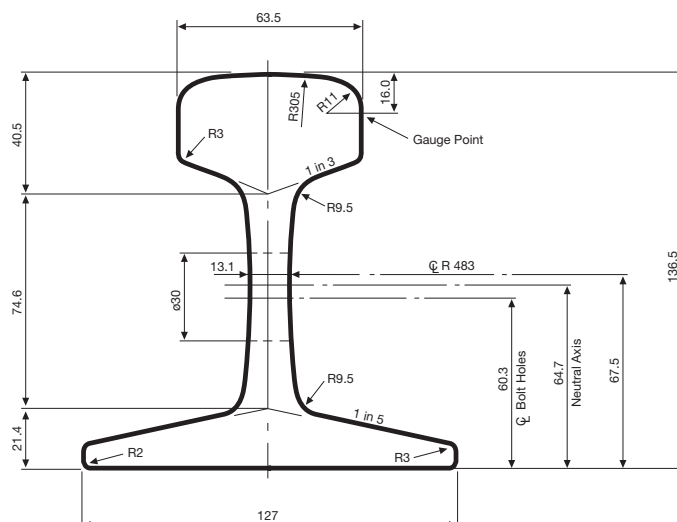
30 KG RAIL

JIS E 1101



41 KG RAIL

RT 23



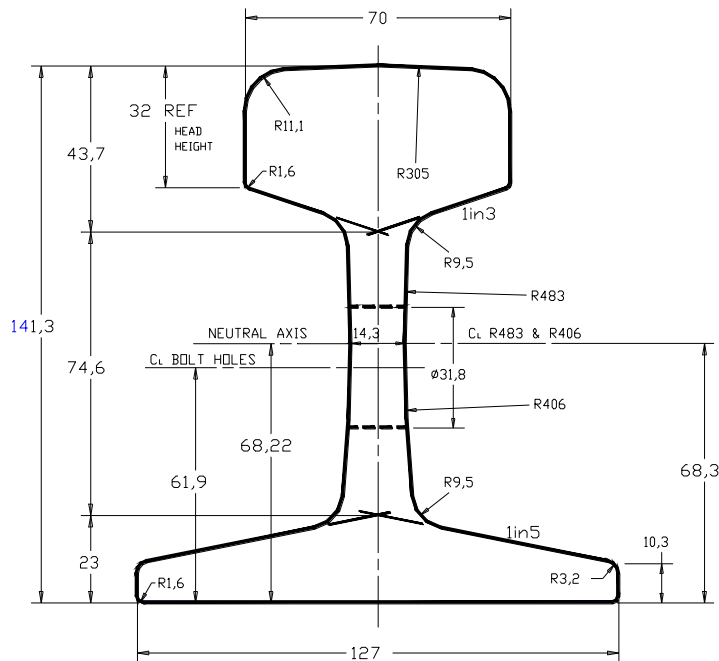
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47KG & 50KG RAIL PROFILES

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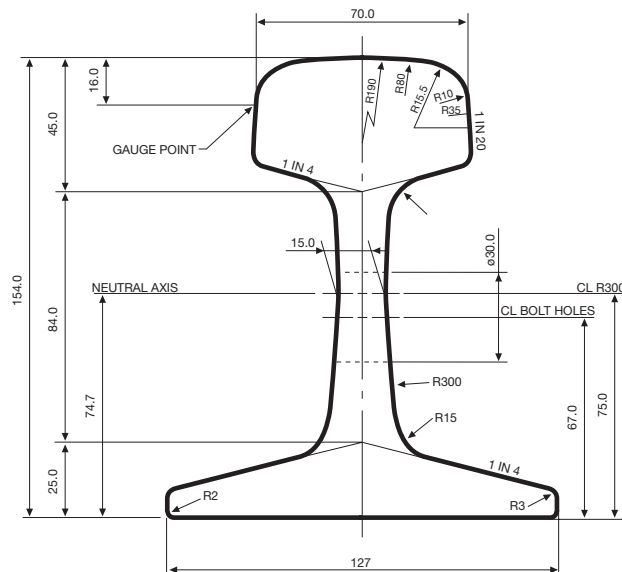


47 KG RAIL



50 KG RAIL

RT 23



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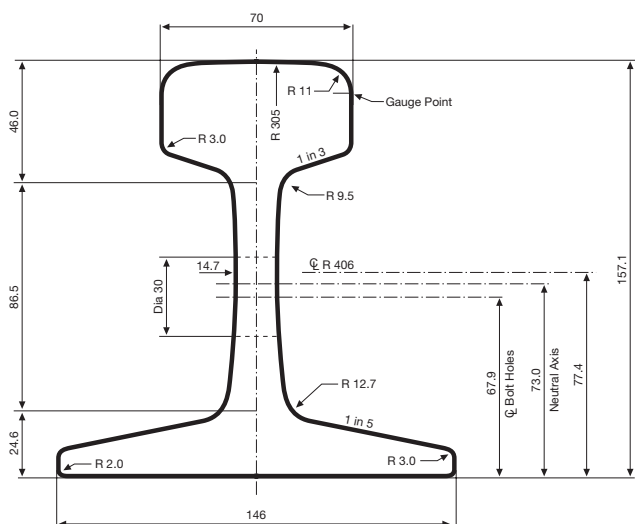
53KG & 60KG RAIL PROFILES

Rail profiles supplied courtesy of EMRAILS – The Australian Rail Stockist.



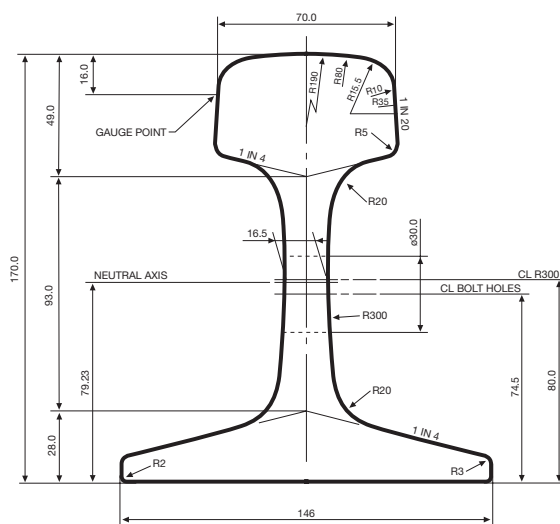
53 KG RAIL

RT 25



60 KG RAIL

RT 23

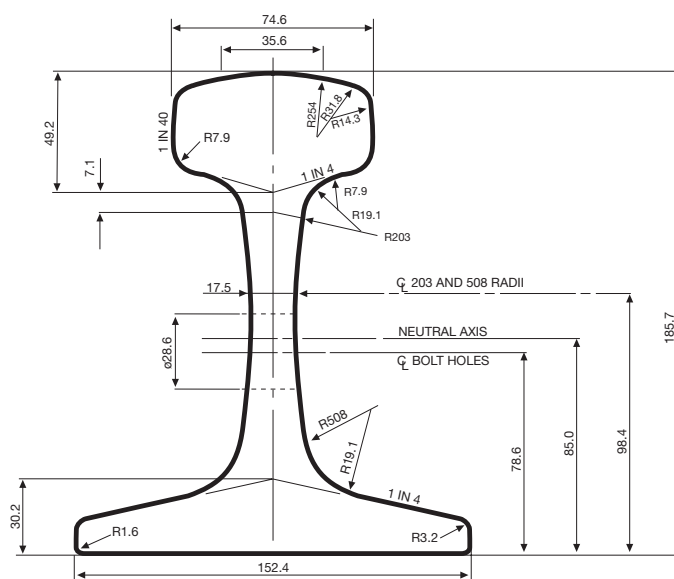


68KG RAIL PROFILE

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.



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.



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.





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OUR PROMISE

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OUR VALUES

1. Safety

- All tools are designed to meet or exceed global standards for high force hydraulic tools
- All tools are physically tested in our distribution centre prior to despatch to our customers
- Individual serial numbers are permanently marked on each product and a test certificate is issued for all cylinders, tools and pumps

2. Reliability

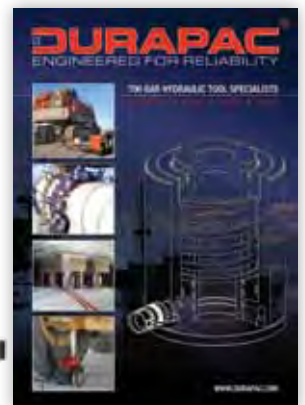
- Distributors trained, tested and certified to ensure customers receive the right equipment for the job
- All outside suppliers are required to hold approved quality system accreditation and all tool designs are field tested
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