

RAIL

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



Track Maintenance



Signalling



Overhead



Bridge & Structure



Rolling Stock



SPECIALISED FORCE

**HYDRAULIC TOOLS &
SPECIALISED EQUIPMENT
FOR RAIL NETWORKS**



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



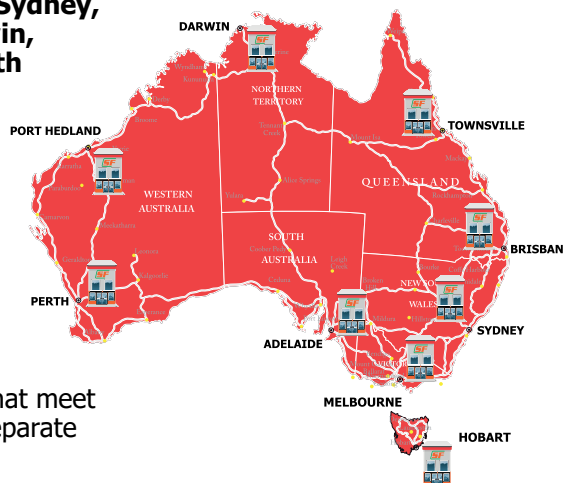
specialisedforce.com.au



OVERVIEW

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

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



FOCUSED BUSINESS AREAS



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

OPERATIONAL COMMITMENTS

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

OUR VISION

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

OUR VALUES



EXCELLENCE

We apply advanced technology and continually innovate and improve



SAFETY

Zero accidents is our unwavering goal.



FAIR RETURN

We earn a return that fairly rewards the value we deliver



SUSTAINABILITY

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



ETHICS

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

EXPERIENCE YOU CAN TRUST WITH NATIONAL COVERAGE AND LOCAL CARE



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

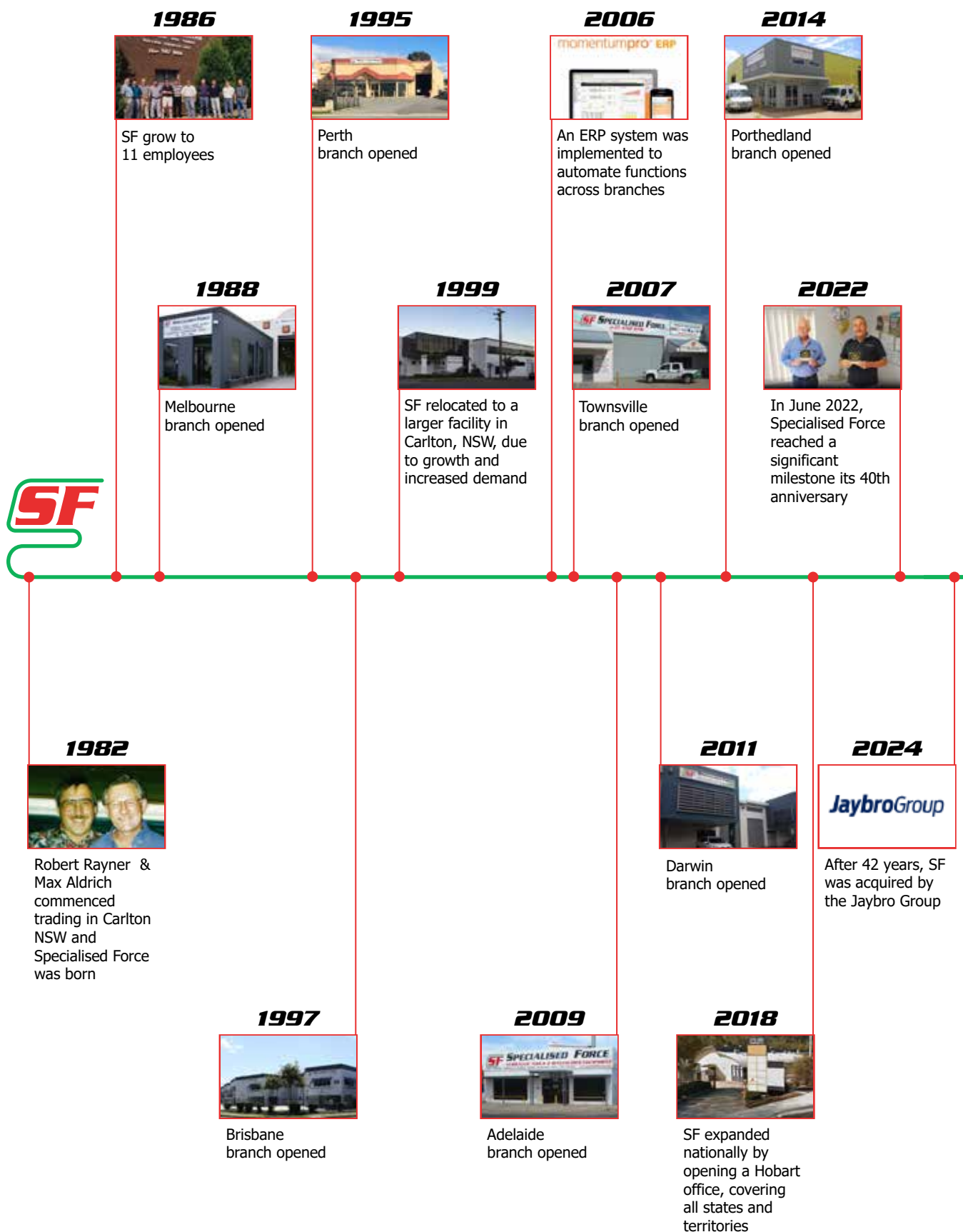
The real strength of Specialised Force's service is the combined knowledge and competence of the people who are in contact with customers on a day-to-day basis. Our teams provide service, parts and technical support on a national scale. The inherent multi-functionality of support teams enables solutions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



SPECIALISED FORCE 1982 - 2025

A Snapshot of SF Milestones

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



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AIRTEC



Husqvarna



Drills, Saws & Impact Wrenches



DRILL, SAWS & IMPACT WRENCHES
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PETROL RAIL DRILL (MADE IN USA)

MODEL NO. RB2SPD (2-SPEED)



Two Speeds
Quick change
speed selection



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

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

FEATURES

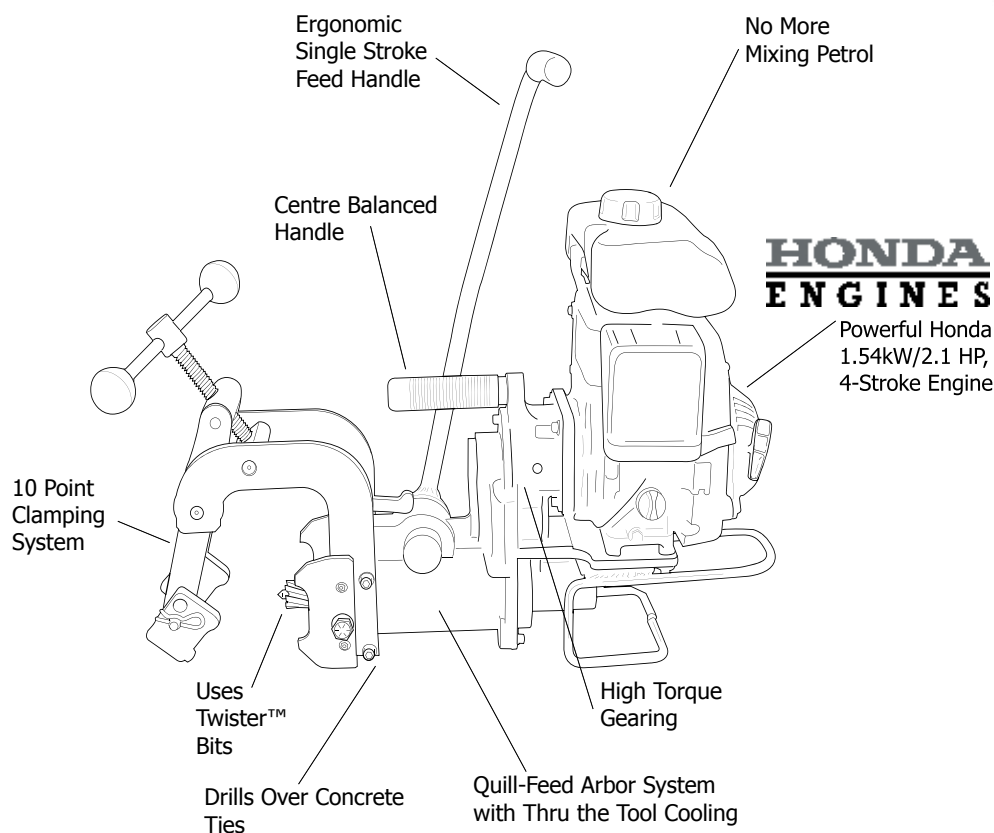
- Honda 1.54kW/2.1HP, 4-Stroke Engine with Oil Alert
- One Pull Ergonomic Feed Handle
- High Torque Gear Box
- 10 Point Clamping System
- Centre Balanced Handle
- Drill Holes in under 20 seconds
- Optional clamp for crane/girder rail
- Suitable for drilling bonding holes
- One Year Warranty
- RB2SPD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

The **RailBoss RB2SPD** runs at a high speed of 350 RPM (second gear) and is suitable for the new range of **tungsten carbide cutters**. These new carbide cutters will handle harder rail and do 2 1/2 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)
RB2SPD	Petrol	High Torque Quill Feed	Honda 1.54kW/2.1 HP, 4-Stroke	150/350 (2-Speed)	1-11/16" (42.8mm)	31 - 68kg	22.2

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



OPTIONS & ACCESSORIES (REFER PAGES 7-10)



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

Model No.	Description
27559	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
- 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

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 7-10)

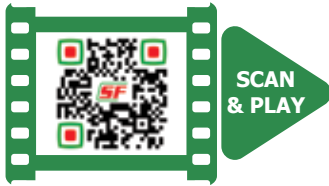


Rail Shoes	Retrofit Kits	Bonding	Twister Bits	Coolant Bottle	Coolant & Lube	Storage Case
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Model No.	Description
27559	Clamp for Crane Rail (Must use 50mm (2") Depth of Cut Twister Bits)
Q8047KIT	Girder Rail Retrofit Kit
Q8047B	Girder Rail Shoe (RI57/R10)
07495	Holder for 50mm Depth of Cut Twister Bits
03540	Storage Case - Steel



RAIL DRILL ACCESSORIES (MADE IN USA)



Rail Shoes suit RB28, RM42 & BD17 Machines.



Rail Shoes		Hole Location Template		Storage Case	
Model No.	Rail Section (kg)	Model No.	Description (Size)	Model No.	Description / Dimensions
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
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			Slick Stick is a soft easy to apply lubricant
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 RB2SPD Petrol Rail Drill**.

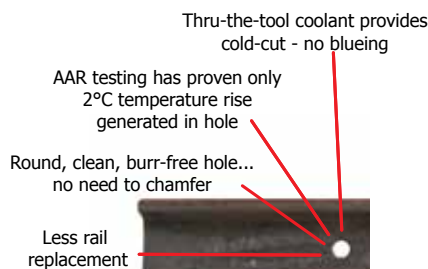
The unique annular (hollow) design and thicker cutter wall offers extended tool life and extra durability.

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

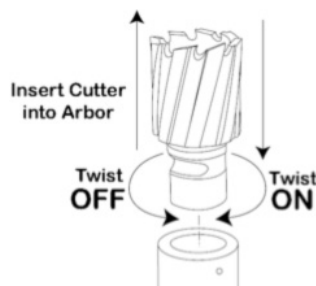
Twister Bits can also be used with similar rail drilling systems with a 19.05mm (3/4") arbour bore. The shank of the bit features a flat that easily adapts to the set-screw style mounting, offering a secure installation, and allowing Trak-Star cutting technology to be used in multiple systems.



TWISTER BIT HOLE



REPLACING OR INSERTING TWISTER BITS



SPECIFICATIONS*

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

TWISTER BITS & CUTTING TOOLS (MADE IN USA)

TWISTER BITS FOR CRANE/GIRDER RAIL



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

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

SPECIFICATIONS*

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

BONDING BITS ADAPTORS & RETROFIT KITS



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

SPECIFICATIONS

Model No	Description	Size	
		(mm)	(")
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

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



TRANSDUCER ATTACHMENT (MADE IN USA)

Model No.	Description
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07556

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



PETROL TIMBER SLEEPER DRILL

MODEL NO. PRO-TED260RS

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

FEATURES

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

SPECIFICATIONS

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

OPTIONAL ACCESSORIES

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



Japanese Quality



PRO-TED260RS
Shown with Extension
EDR2400-EXT

DRILLS, SAWS & IMPACT WRENCHES

specialisedforce.com.au

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 (cm³)	Power Output	Power/Weight Ratio	Blade Size	Max Cutting Depth (mm)	Dimensions (mm)	Wt (no fuel or arm) (kg)
K1270/16	Air-Cooled 2 Stroke Petrol Engine	119	5.8kW 7.8hp	0.37	400mm / 16"	145	730x243x430 (LxHxW)	15.7

Model No.	Fuel Tank Volume (L)	Idling Speed (RPM)	RPM	Vibrations Front Handle (m/s²)	Vibrations Rear Handle (m/s²)	Sound Pressure Level at Operators Ear (dB(A))	Sound Power Level – Guaranteed LWA (dB(A))
K1270/16	3,4	2,700	4,700	5.3	5.4	104	117

NOTE: Supplied in Wooden Storage Case with Tool Kit

PETROL RAIL SAW OPTIONS & ACCESSORIES



RA10 & RA10S

04419 & 04415

505698001

5444502-02

Model No.	Item	Part No.	Wt (kg)	Specifications	Description
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









ZERO EMISSIONS BATTERY POWERED RAIL SAW (MADE IN SWEDEN)

MODEL NO. K 1

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



FEATURES

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

SPECIFICATIONS

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

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

ACCESSORIES

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





PETROL RAIL BAND SAW (MADE IN ITALY)

MODEL NO. SRL35P

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

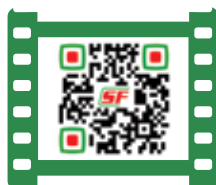
Powered with a petrol engine keyed to a reducer which transmits the motion to the blade. The blade is constructed of high quality steel during operation is cooled with liquid coolant. The machine is clamped to the top of the rail.

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

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

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

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



SCAN & PLAY

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



AIRTEC

PETROL IMPACT WRENCH (MADE IN EUROPE)

MODEL NO. MASTER35



- LOWER WEIGHT
- INCREASED POWER
- LOW EXHAUST EMISSION LEVELS



SCAN
& PLAY

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 63.4	24.5 (1")	16-32	500-2500 (5 adjustable settings)	600 x 284 x 452 LxHxW	17.9

ACCESSORIES

MODEL NO. MASTER35BOX

Model No.	Description
MASTER35BOX	Carry Case – Steel



ENGINE TECHNICAL INFORMATION

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

Fuel Mixture Ratios

Petrol Unleaded minimum 90 Octane and two-stroke

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

IMPACT WRENCH (MADE IN EUROPE)

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
550E	9mm	1	90	55	37	55
550A	7/16"	1	90	55	37	55

For More Accessories - Refer Next Page

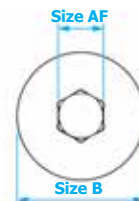
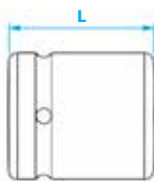


IMPACT WRENCH PETROL SOCKETS 1" SQ DRIVE

IMPACT WRENCH (MADE IN EUROPE)

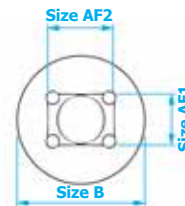
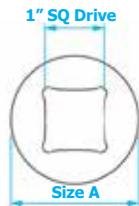
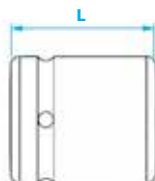
IMPACT SOCKETS 1" SQUARE DRIVE

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



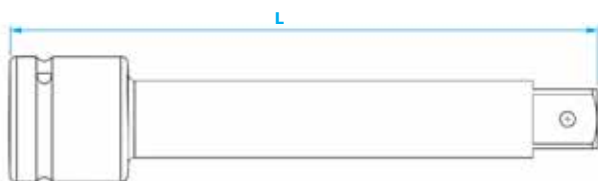
RECTANGULAR SCREW SPIKE SOCKETS 1" SQ DRIVE

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



EXTENSIONS

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



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

OPTIONAL ACCESSORIES

Model No.	Description
2801.7560	Hook Assembly for horizontal use
2801.7550	Wrench Bracket for vertical use (Old Model)
2801.7565	Wrench Bracket for vertical use (New MA Model)
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



MASTER35 NO-GO GAUGE FOR WORN IMPACT SOCKETS

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

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

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



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

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

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

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

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



Model No.	TORX Size	Length (mm)	Width Bolt/Spike End (mm)	Width Drive End (mm)	Depth Internal (mm)
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

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.



FINEST BITS AVAILABLE



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

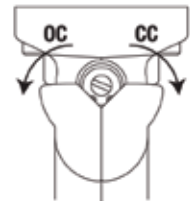
Longer, wider trigger provides improved control especially with a gloved hand

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 26-27 for impact accessories



IMPACT WRENCHES (MADE IN USA)

FEATURES

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

SPECIFICATIONS

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

ORDERING INFORMATION

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



Refer pages 26-27 for impact accessories

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
49782	Quick change adapter only to suit (NR1) Nut Runner
21111	Quick change adapter only to suit (NR2) Nut Runner

SPECIFICATIONS

Model No.	45798	20920
Length w/o adapter (mm)	197	219
Length with adapter (mm)	241	279
Diameter (mm)	45	60
Weight with adapter (kg)	0.7	1.5
Square Nut Sizes	<ul style="list-style-type: none"> • 1" • 13/16" • 3/4" • 5/8" 	<ul style="list-style-type: none"> • 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.



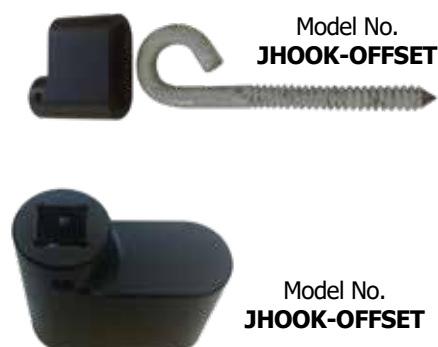
IMPACT ADAPTORS & EXTENSION

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

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



IMPACT SOCKETS, ADAPTORS & EXTENSIONS



Model No. **MET-2450**



Model No. **98413L**

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

Model No.	Brand	Description
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 & 1/16	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		



Rail Material Handling



RAIL MATERIAL HANDLING EQUIPMENT
32-43

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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 / ¾"	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



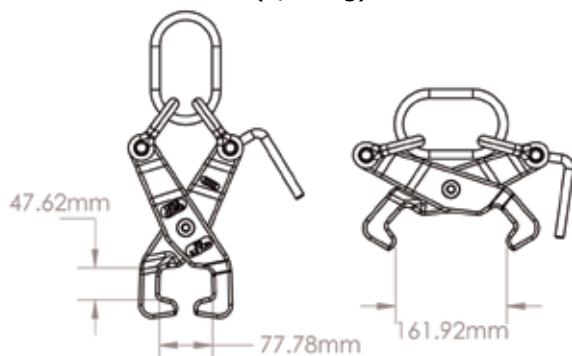
RHD10-IPS



RAIL TONGS (MADE IN CANADA)

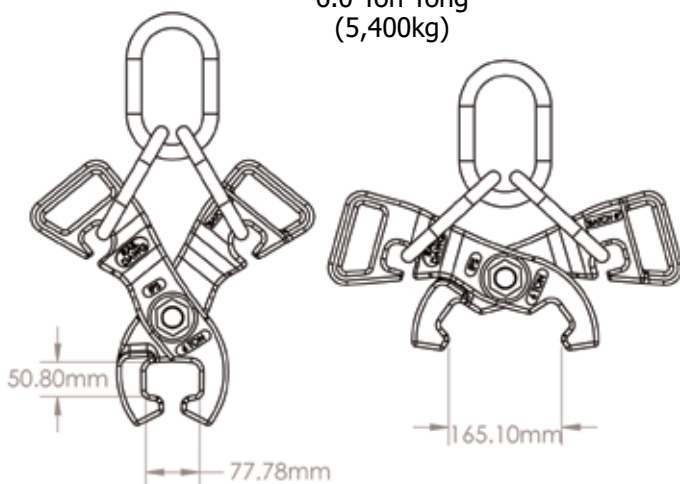
RHD3.3-IPS

3.3 Ton Tong
(3,000kg)



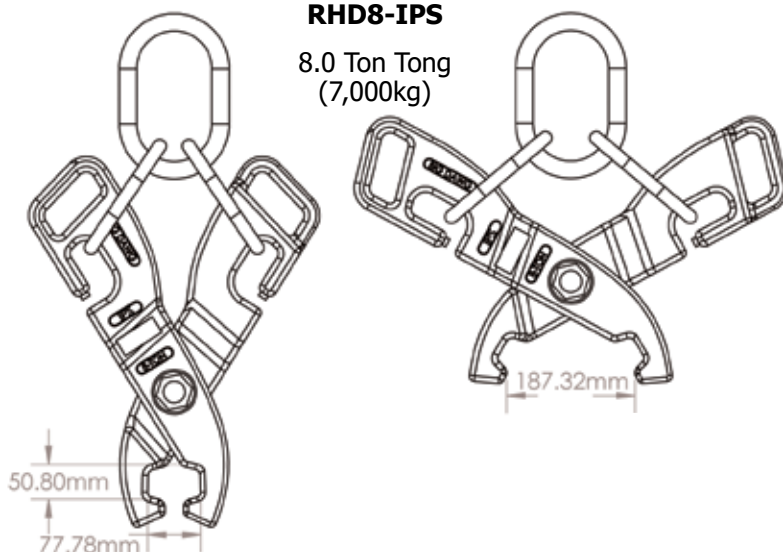
RHD6.0-IPS

6.0 Ton Tong
(5,400kg)



RHD8-IPS

8.0 Ton Tong
(7,000kg)



RAIL MATERIAL HANDLING

specialisedforce.com.au



RAIL THREADING TONGS & SPREADER BARS (MADE IN CANADA)



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

RAIL THREADING TONG – MODEL NO. VARIOUS

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

FEATURES

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

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



2310045A



2310045B

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.

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

ALDON 4123 SERIES TIMBER SLEEPER TONGS (MADE IN USA)



Lifting tongs used on timber sleepers for rail.

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



MODEL NO. 2310108A HAND SLEEPER/TIMBER TONGS

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

FEATURES

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

SPECIFICATIONS

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



Replacement Tips # 2310109A

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

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

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

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





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.

4123-72

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.



Model No.

4106-24

FEATURES

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

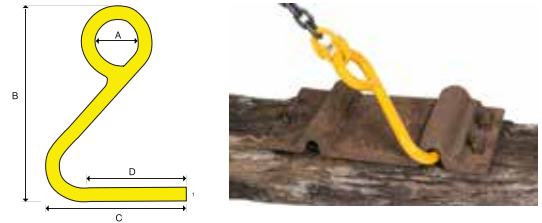


RAIL MATERIAL HANDLING (MADE IN AUSTRALIA)

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

SLEEPER LIFTING HOOK MODEL NO. SLH1.5T

High quality powder coated lifting hook for lifting rail sleepers.

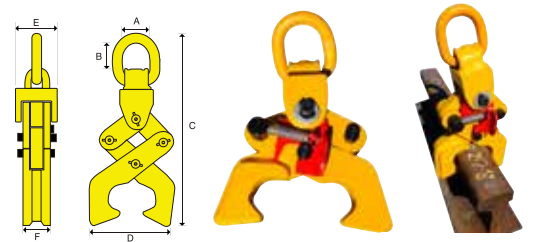


SPECIFICATIONS

Model No.	WLL (kg)	Dimensions (mm)					Unit Wt (kg)
		A	B	C	D	E	
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.

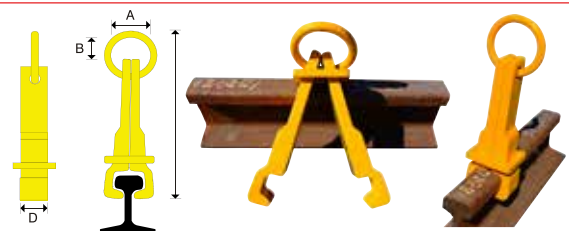


SPECIFICATIONS

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

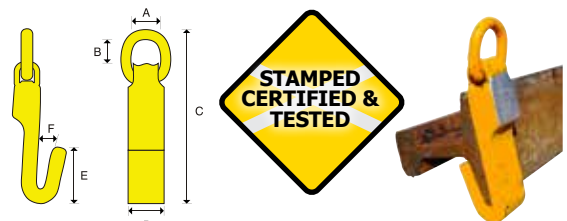


SPECIFICATIONS

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.



SPECIFICATIONS

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

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.



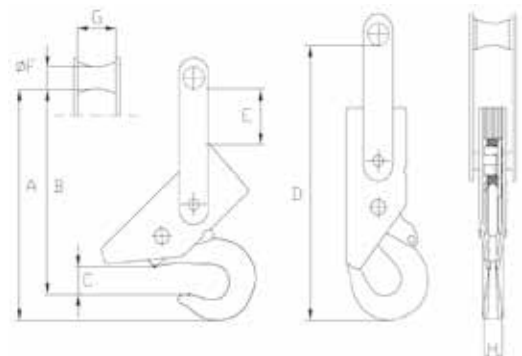
RELEASE
The GIGASENSE IS Hook automatically frees itself from the load and is ready for the next lifting operation.

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

ALDON
CO

FCS
RAILWAY
EQUIPMENT

IZUMI

BENDITNOW
Power Take & Control Pipe Bending Machines

Rail Welding, Grinding & Bending Equipment



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WELDING, GRINDING & BENDING

48-56

BREAKERS – ROCK & CONCRETE – MARUZEN	48
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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

DIESEL RAIL PROFILE GRINDER (MADE IN ITALY)

MODEL NO. MPR4000D

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

FEATURES

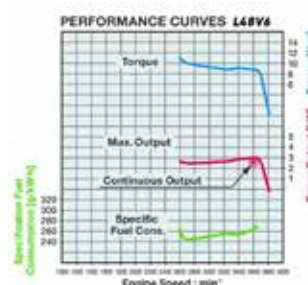
- Powered by a 3.5kW Yanmar Diesel 4-stroke engine.
- Capable of 4,500 RPM for high-performance grinding.
- 180° range of motion for versatile grinding.
- Operator-controlled grinding of both upper and side rail heads.
- Safety features include a guarded grindstone area.
- Lubrication even when tilted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

SPECIFICATIONS

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



AZ14S5B grinding cup wheels (sold separately)



ACCESSORIES

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

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

MPR4000D IN APPLICATION



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

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



Over Rail



Obstruction-less



Dual Obstruction-less Configuration

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

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

SPECIFICATIONS

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



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

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

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

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

FEATURES

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

SPECIFICATIONS

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



ENERCO KT-30 RAIL GAP ADJUSTER

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

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



DETAILS

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

SPECIFICATIONS

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

MODEL No. BE32AUS MANUAL CONDUIT BENDER (MADE IN UK)

FEATURES

The BE32AUS Conduit Machine will bend 16mm, 20mm, 25mm and 32mm galvanised and black enamel conduit. The formers are precision machined aluminium for improved accuracy and ease of use throughout the bend. The BE32AUS Conduit Machine is supplied with a quality pipe vice and carrying handle for ease of transportation also an extension lever is provided for extra leverage required for bending larger diameter conduit. When not in use the extension lever can be stored neatly on the side of the machine. The BE32 Conduit Machine is manufactured in the UK by the last British manufacturer of the Hilmor brand of pipe bending machines spares and accessories.

SPECIFICATIONS

Capacity	16mm, 20mm, 25mm, & 32mm OD Electrical Steel and PVC Conduit*
Includes	Vice 16/20/25/32mm Formers.
Packed Weight	34kg
Packed Dimensions	113 x 54 x 22cm (LxWxH)

DETAILS

- Used in electrical installation
- Precision machined aluminium formers
- Bends 16mm, 20mm, 25mm and 32mm conduit with included formers
- Pipe vice and extension lever included

SPARE PARTS



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

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



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

BLP



BLP



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



Model No. **B32F** 32mm Conduit former
Model No. **B25F** 25mm Conduit former
Model No. **B20F** 20mm Conduit former
Model No. **B16F** 16mm Conduit former



Model No. **BDP** Repeat bend attachment (Supplied with bolts and pins (not shown))



Model No. **BTS** Tube stop and clip



Model No. **BRC** Retaining clips x5



Model No. **BSPCA** Safety Chain Assembly



Model No. **BGR** Grooved roller



Model No. **BUNIBL** Universal bending lever



Model No. **BPVJ** Pipe vice jaw set

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

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



Model No	Dies & Die Guides Included for Metric Threads (mm)	Threading Details	Kit Contents	Kit Dimensions LxWxH (mm)	Kit Weight (kg)
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

MODEL No. SLV-ND/CB BATTERY CABLE BENDER



OVERVIEW

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

FEATURES

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

STANDARD ACCESSORIES

- Wrist Strap
- Carry Case

SPECIFICATION

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

ORDERING INFORMATION

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

**SLV-CB
BENDING HEAD**



TCS-5-161 SERIES CONTACT WIRE STRAIGHTENER

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



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

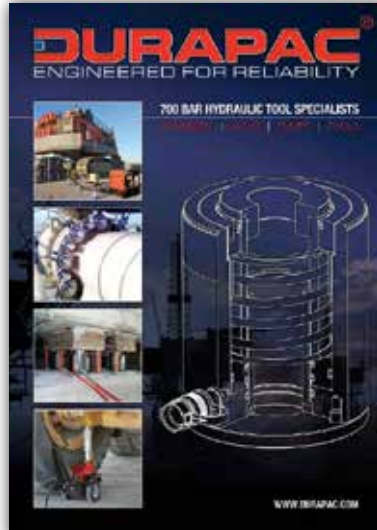


SPECIFICATIONS

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

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STEL

Rail Trolleys



RAIL TROLLEYS

62-63

TROLLEY – RAIL – STEL

62

RAIL TROLLEY

OVERVIEW

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



FEATURES

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

SPECIFICATIONS

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

Note: Dimensions are approximate.

ORDERING INFORMATION

Type	LINK TROLLEY			SPLIT TROLLEY		
Track Gauge	Standard	Narrow	Broad	Standard	Narrow	Broad
Ordering Code	LT1000LU	LT1000LU-N	LT1000LU-B	BT1000LU	BT1000LU-N	BT1000LU-B

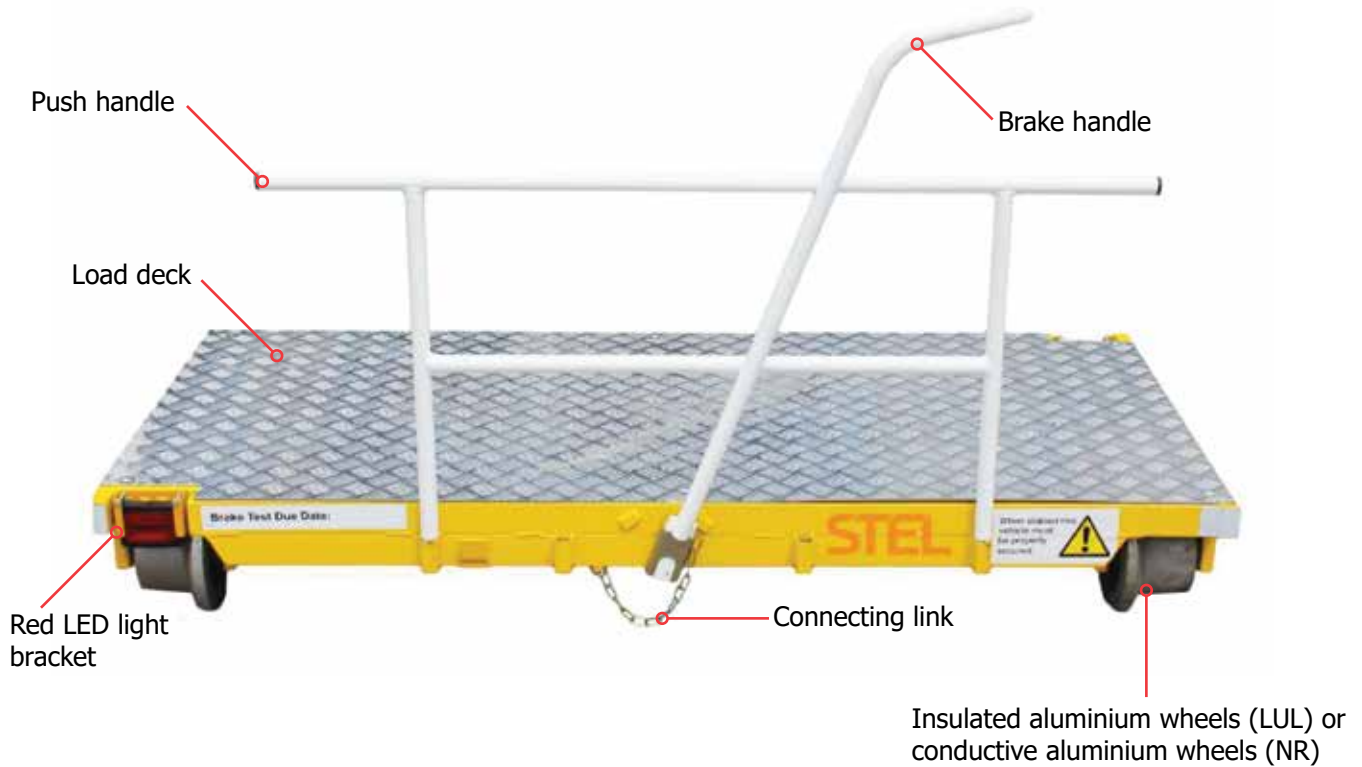
COMPLIANCE

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

GENERAL LAYOUT

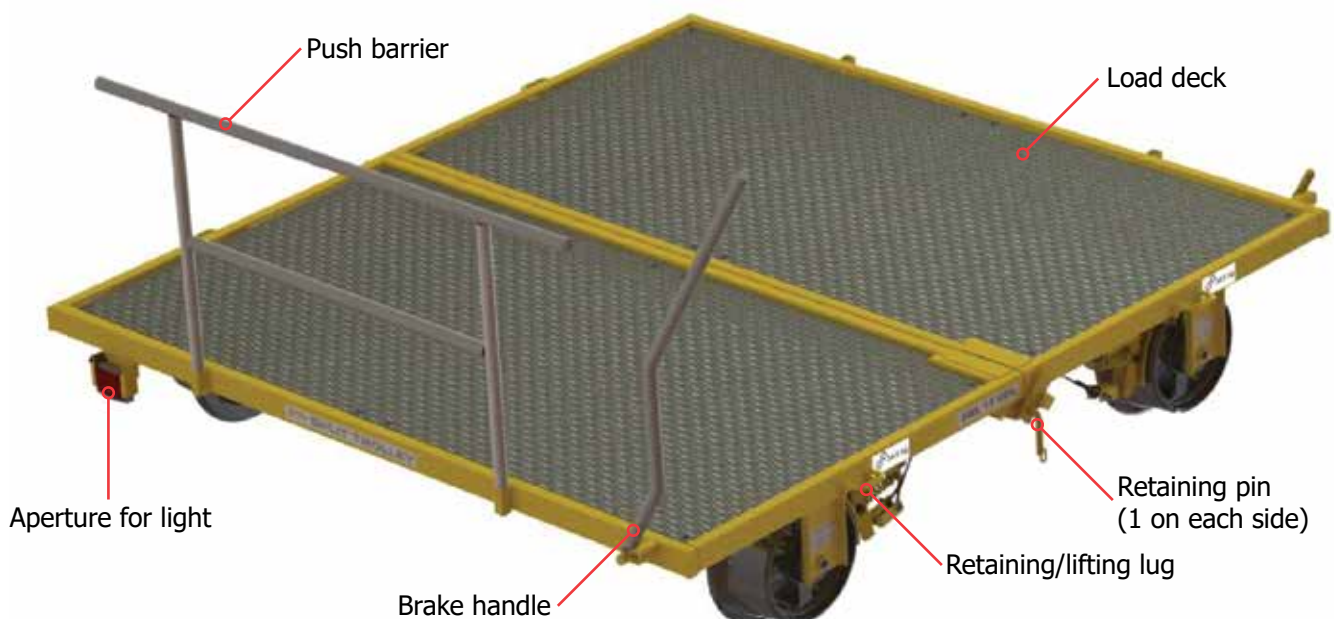
LINK TROLLEY

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



SPLIT TROLLEY

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



Hand Tools



HAND TOOLS

68

BARS – RAILWAY

68

RAILWAY BARS

RAILWAY BARS - MODEL NO. VARIOUS

- Specialty bars for various rail applications

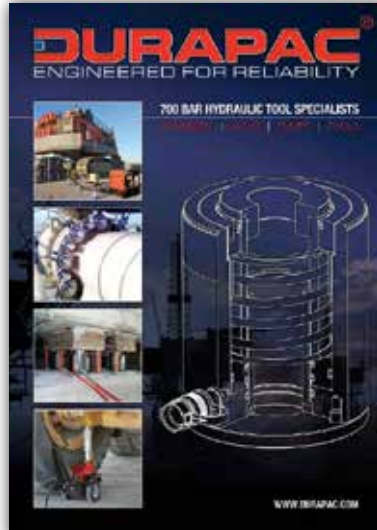


SPECIFICATIONS

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

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HAND TOOLS

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Hydraulic, Electrical, Rail & Other Key Industries.**

RIKEN



MARUZEN

intercable

DURAPAC
ENGINEERED FOR RELIABILITY

Hydraulic Tools & Equipment



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HYDRAULIC TOOLS & EQUIPMENT
74-95

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ROCK DRILLS (MADE IN JAPAN)



OVERVIEW



BH7E



BH11E



BH18K



BH20EV



BH23K

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

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

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

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

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

SPECIFICATIONS

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

BREAKER BITS & DRIVERS

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

ROCK DRILLS (MADE IN JAPAN)



OVERVIEW

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

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

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

SPECIFICATIONS

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



DH204



DH205

UNDERWATER ANGLE GRINDER (MADE IN JAPAN)

OVERVIEW

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

SPECIFICATIONS

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





POST DRIVER (MADE IN JAPAN)

OVERVIEW

KH193 Post Driver

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

KH240V Versatile Post Driver

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

KH800 Heavy-Duty Post Driver

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



SPECIFICATIONS

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

STANDARD ACCESSORIES

KH193	Standard $\phi 50\text{mm}$
KH240V	Standard $\phi 48.6$
KH800	Standard $\phi 150.0$

OPTIONAL ACCESSORIES

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

EARTH AUGERS (MADE IN JAPAN)



OVERVIEW

AY01H Horizontal Drilling Auger

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

OH01 Handheld Soil Auger

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

SPECIFICATIONS

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



OH01



AY01H

OPTIONAL ACCESSORIES

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



LONG REACH POLE CHAIN SAW (MADE IN JAPAN)

OVERVIEW

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

SPECIFICATIONS

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



LONG REACH POLE CHAIN SAWS (MADE IN USA)

FEATURES

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

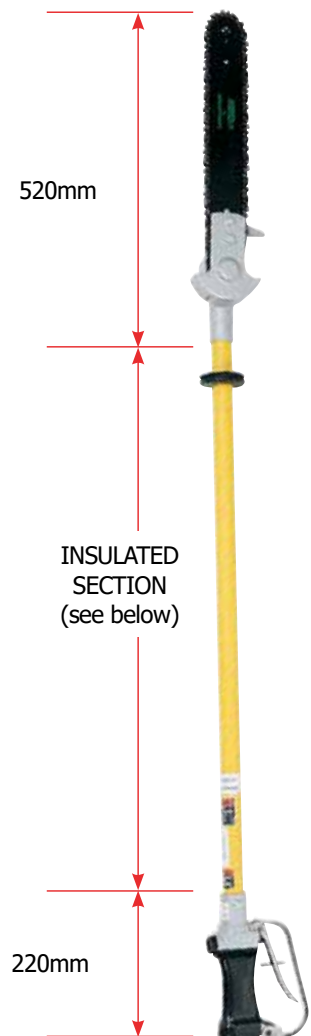
Foam Filled
Tube



SPECIFICATIONS

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

Model No.	Description	Length (m)	Insulated Section Length (m)	Weight (kg)
17140/FF	Foam Filled Long Reach Chain Saw with M & F Flush Face Couplings	1.90 (75")	1.185	4.6
17142/FF	Foam Filled Long Reach Chain Saw with M & F Flush Face Couplings	2.25 (88.5")	1.528	4.9



CONCRETE & ASPHALT SAW/CUTTER (MADE IN JAPAN)



OVERVIEW

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

SPECIFICATIONS

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



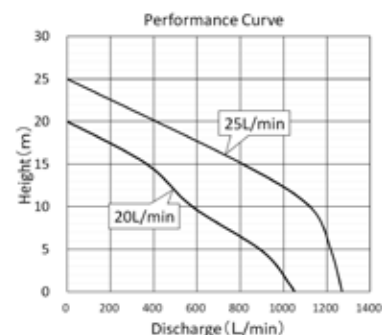
SUBMERSIBLE PUMP (MADE IN JAPAN)

OVERVIEW

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

SPECIFICATIONS

Model No.	PH300
Dimensions (mm)	430×275×190
Weight (kg)	12.4
Working Pressure (MPa)	9.8
Oil Flow (ℓ/min)	20.5
Max Oil Flow (ℓ/min)	25
Max Discharge (lpm)	1050 At 20.5L 1270 At 25.0L
Discharge Diameter (mm)	Φ75 (3")
Max Pumping (ℓ/min)	780 (At 20.5L/min)
Max Lifting Height (m)	15 (At 20.5L/min)
Coupling	3/8"



LOW PRESSURE HOSES, COUPLERS AND ACCESSORIES

FEATURES

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

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

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

* 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

HOSES - HIGH PRESSURE



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

Please contact you nearest Specialised Force Branch for further information

Model No.	Brand	Type	(Size - Id (mm))		OD (mm)	Working Pressure (Bar)	Working Pressure (Psi)	Temp Range	Weight
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

SPECIALISED FORCE 50 - 200 TONNE CUSTOMISED HYDRAULIC DRAFT PACK JIG

OVERVIEW

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

FEATURES

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

FEATURED APPLICATION

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

CUSTOMER FEEDBACK

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



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



JIG in application



BRADKEN BRADKEN Fixed Yoke (type F)



CROWN SE
Crown SE draft gear



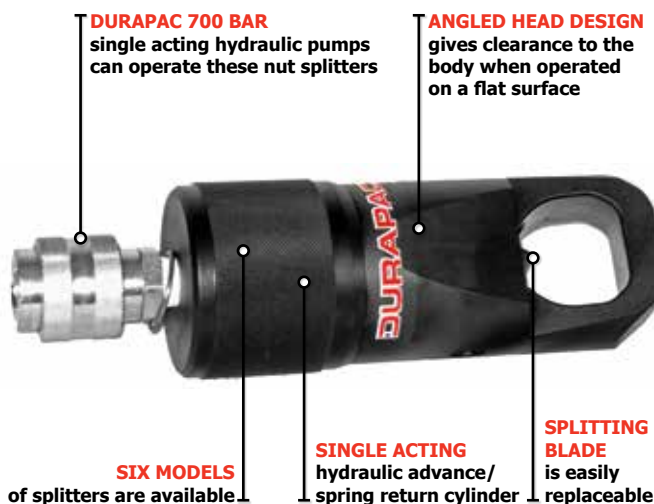
Coal locos and wagons complete with Bradken couplings and yokes with Miner Crown SE draft gear.

HYDRAULIC NUT SPLITTER

MODEL NO. DNS SERIES

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

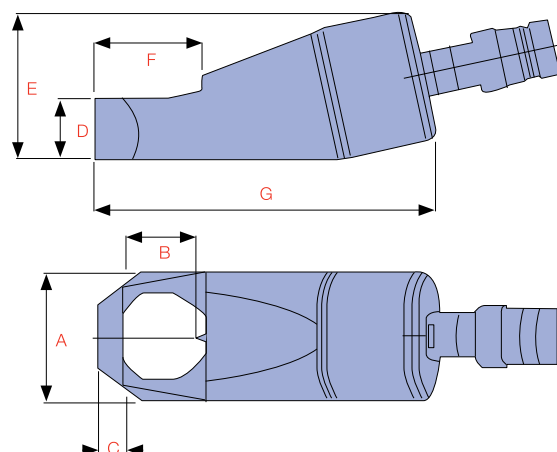
FEATURES



SPECIFICATIONS

Model No.	Bolt Range	Hex Nut Range (mm)	Capacity (ton)	Oil Capacity (cm ³)	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

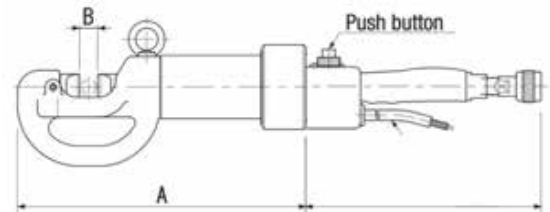
Model No.	Dimensions (mm)						
	A	B	C	D	E	F	G
DNS-1319	39.8	20.9	7.0	19.0	49.7	29.0	120.0
DNS-1924	53.8	25.3	10.0	25.0	62.2	40.0	146.0
DNS-2432	64.0	33.6	13.0	30.0	76.5	51.8	181.0
DNS-3241	77.0	42.7	16.0	36.0	87.3	64.9	205.0
DNS-4150	94.0	53.8	21.1	44.7	108.0	76.0	244.0
DNS-5060	106.0	60.8	24.3	54.3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



ROD CUTTER – DROPPER LEAD CUTTER (MADE IN JAPAN)

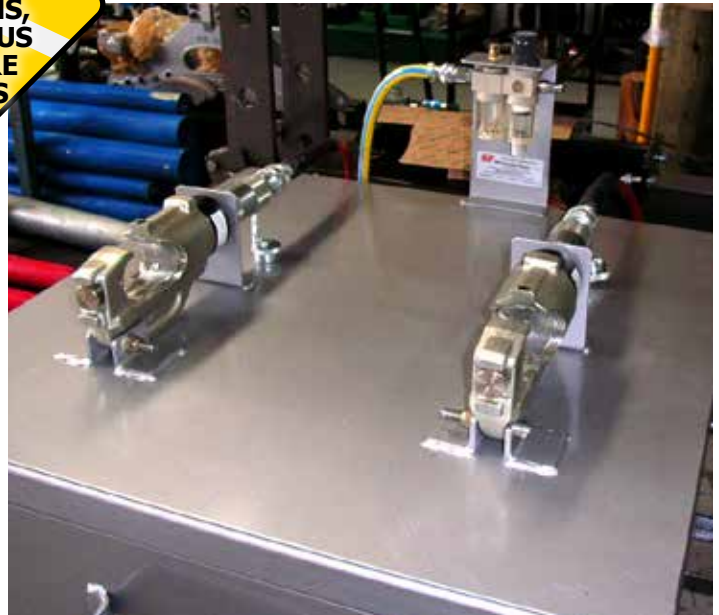
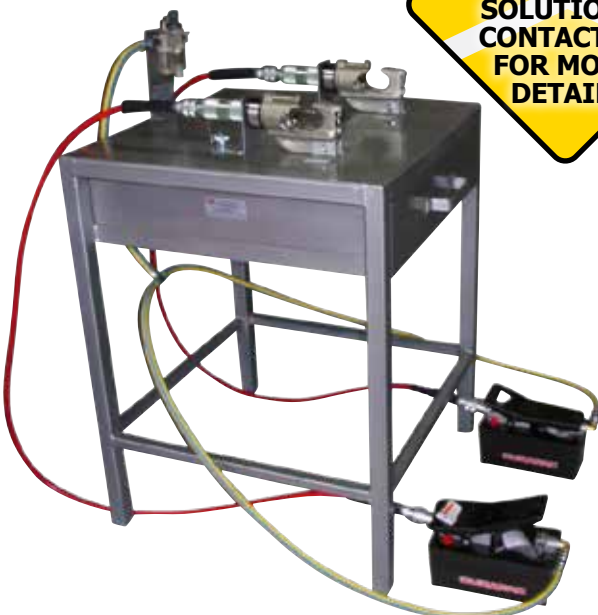
RIKEN

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/mm ² {100kgf/mm ² })	Dimensions (mm)		Oil Capacity (cm ³)	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.



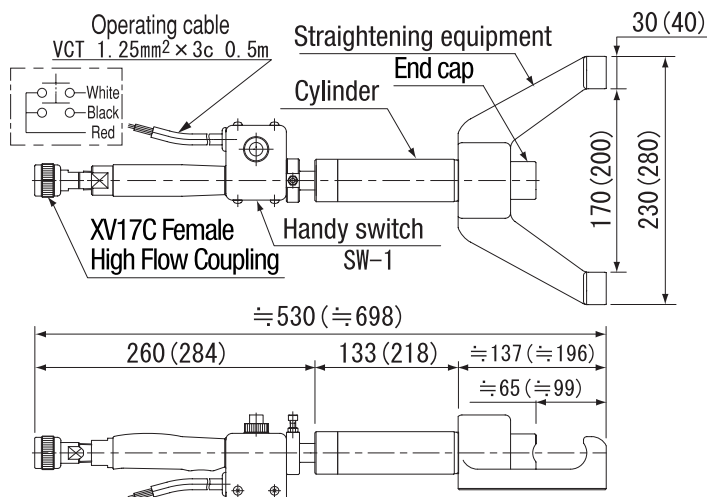
RS SERIES WIRE & ROD STRAIGHTENER AND BENDER, HYDRAULIC (MADE IN JAPAN)

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.

RIKEN



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

DURAPAC
ENGINEERED FOR RELIABILITY

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.

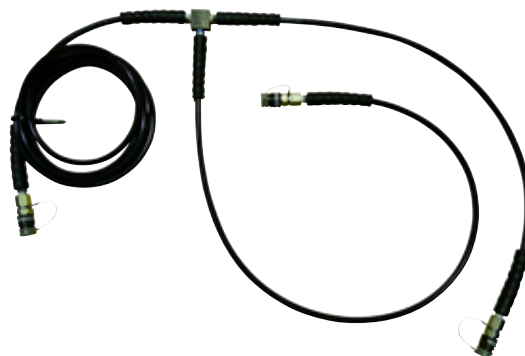
HYDRAULIC RAIL TENSOR HOSES – HIGH PRESSURE

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

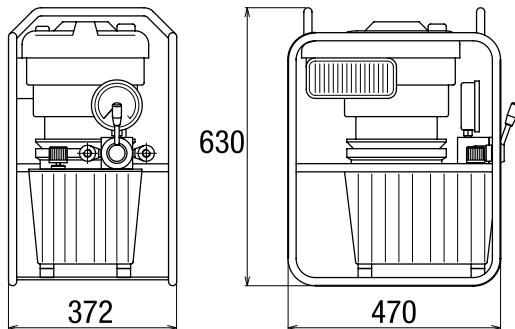
Model No.	Description	Coupler	Length (m)
0412-5M-GEI-SCREW-F	0412 GEISMAR HOSE SET FEMALE RP1A	Screw Parker	5
0412-5M-GEI-SCREW-M	0412 GEISMAR HOSE SET MALE RP1B	Screw Parker	5
0412-5M-GEI-SNAP-F	0412 HOSE SET FEMALE CEJN	CEJN Snap	5
0412-5M-GEI-SNAP-M	0412 HOSE SET MALE CEJN	CEJN Snap	5

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
ENGINEERED FOR RELIABILITY

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

MODEL NO. VARIOUS

intercable **DURAPAC**

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

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



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

HIGH PRESSURE HYDRAULIC ELECTRIC PUMPS

MODEL NO. VARIOUS

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

Picture	RIKEN	DAIA	DURAPAC
			
Model No.	SMP-30	DSPN-12AS	SPES3502AR
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
Pressure (bar)	700	700	700
Tank Size (L)	2.0	1.2	2.0
Control (All LV Stepped Down)	3m Hand Pendant	1.8m Hand Pendant	2.5m Hand Pendant
Power	230VAC	230VAC	230VAC
Accessories Included	3m Hand Pendant	1.8m Hand Pendant	2.5m Hand Pendant
Optional Accessories	<ul style="list-style-type: none"> - 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)
Dimensions LxWxH (mm)	200 x 170 x 393	265 x 145 x 275	400 x 140 x 140
Weight (kg)	14.5	7.5	8.4



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



LOW PRESSURE PETROL HYDRAULIC PUMPS

MODEL NO. VARIOUS

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



UH070

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



UH130

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

SPECIFICATIONS

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

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

MODEL NO. VARIOUS



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



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

SPECIFICATIONS

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

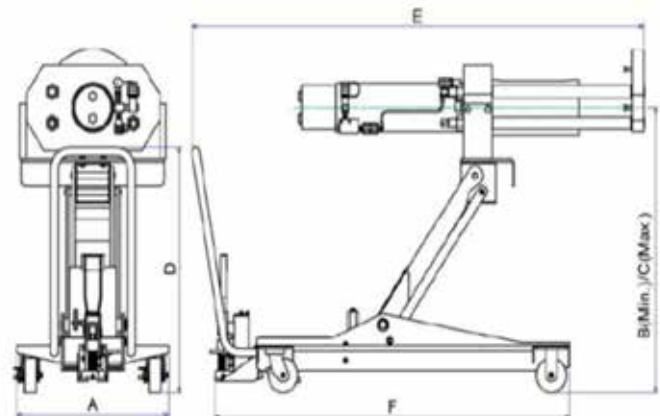
100 TON RAILROAD AXLE JOURNAL ROLLER BEARING PUSH/PULLER

FEATURES

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

SPECIFICATIONS

Model No.	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	*	*	*	*



This accessory cha

CLASS & SIZE OF BEARING ASSEMBLY TO BE SERVICED

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

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

Note: Adaptors listed above are for servicing the following roller bearing assemblies:

Brenco "Crown Taper"; New Departure-Hyatt "Hyroll Taper"; SKF "Expiditer".

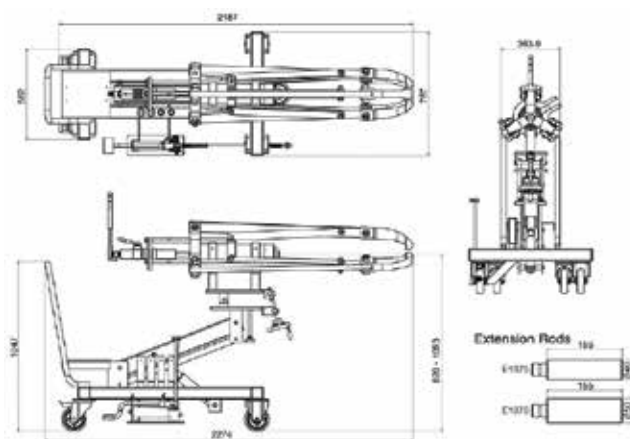
50 TON HYDRAULIC PULLER

FEATURES

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

SPECIFICATIONS

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

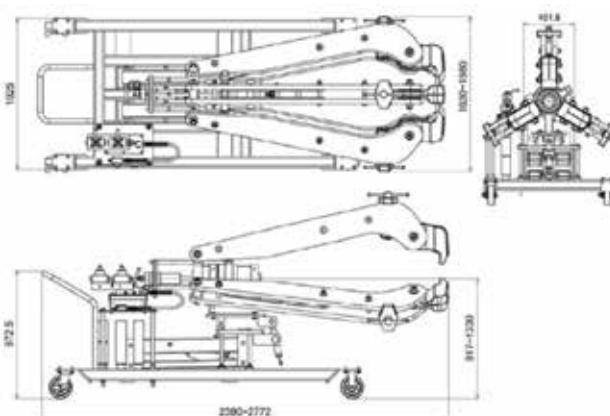


100 TON HYDRAULIC PULLER

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





31 *Devices*



specialisedforce.com.au

LOCOMOTIVES & RAIL CAR STOPPING DEVICES
100-123

DERAILERS – ALDON	100
DERAILERS – HINGED – ALDON	102
DERAILERS – RETRACTABLE – ALDON	104
DERAILERS – FITTING – ALDON	105
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LOCK, RAIL – SWITCH POINT – ALDON	113
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RAIL CHOCK – URETHANE, HEAVY-DUTY, SPARK-PROOF – ALDON	121
RERAILERS – FREIGHT CAR – ALDON	122

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:

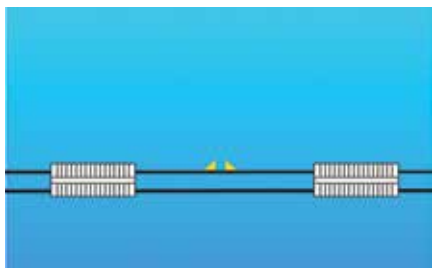
The derail lifts the flange of the car wheel and drops it clear of the rail. At the same time the wheel on the other rail falls down between the rails. The derailed wheels bite into the soft surface of sleepers and ballast and slide to a stop. Depending on speed, a derailed car or locomotive may travel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

Effective derailing depends on

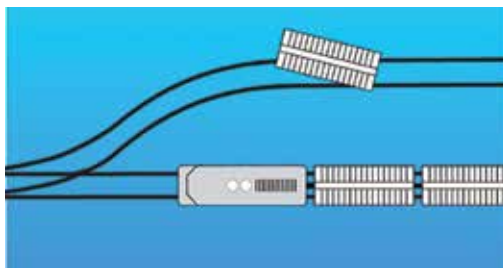
- Derail properly sized, installed, and maintained
- Cars and locomotives moving at slow switching speeds (less than 5 mph).
- Flat track -- no grades
- Track open to the sleepers and ballast
- In curved track, derail installed on outer rail, not inner rail
- Ample open space along track for derailed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



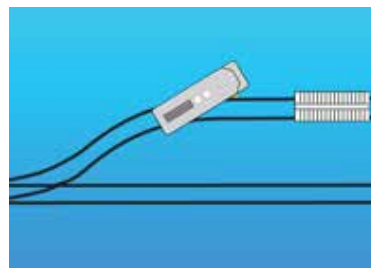
DERAILS HELP PREVENT



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



SabreTooth™ Portable Derails

Tool-free installation. Timber sleeper-biting anchor hook

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

IMPORTANT INFORMATION ON DERAILS

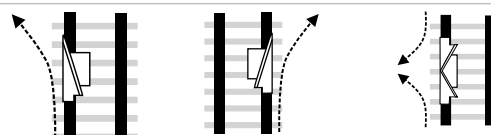
Type of Rail?



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

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

Derail Throw Direction?



1-way left

1-way right

2-way

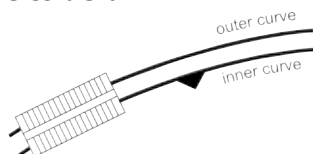
Note that direction of throw is from the viewpoint of the oncoming locomotive or rail car

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

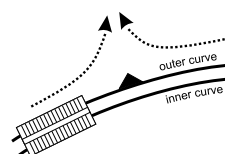
1-way or 2-way Derail? Consider the type of rail movement you have on your spur tracks. The primary purpose of the derail is to prevent unauthorised locomotive entry into your siding. A secondary purpose is to prevent a freight car on your siding from rolling out onto the main line.

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

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



CORRECT



AVOID IF POSSIBLE

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

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

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

MODEL NO. 4014 SERIES

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

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



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

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

Two Way Derails



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

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



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



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

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.



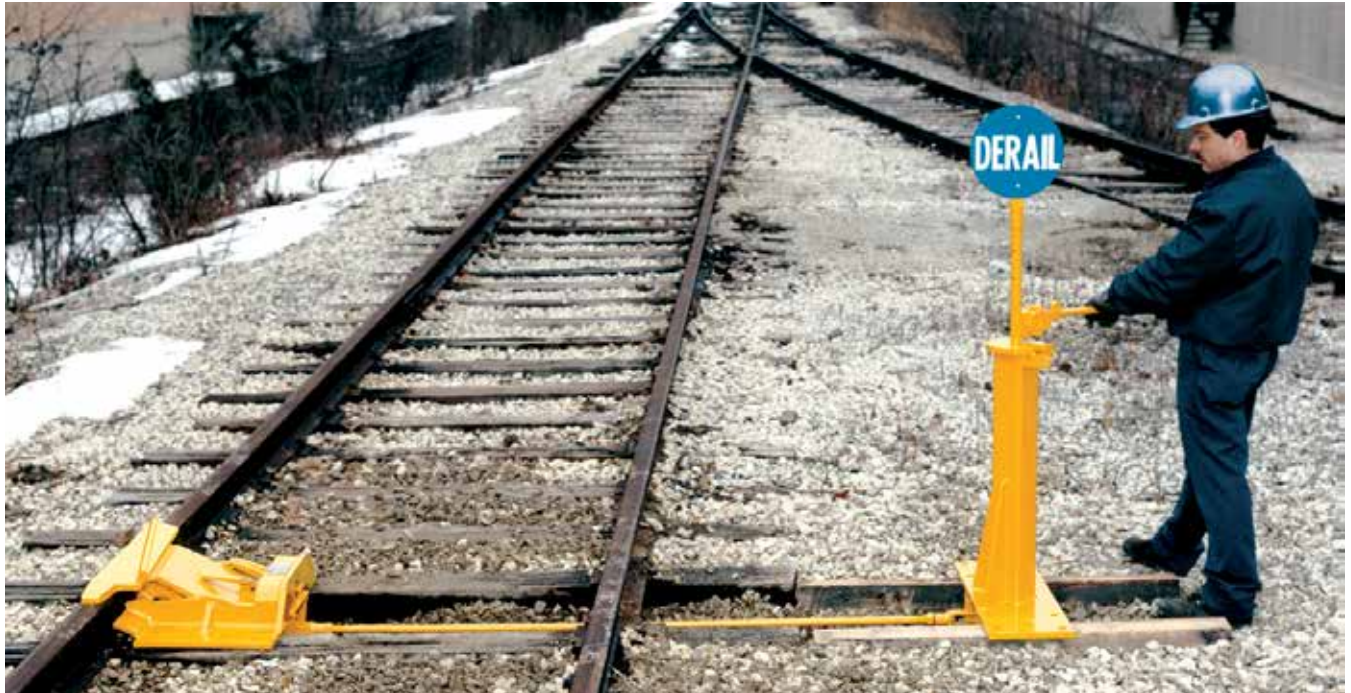
MODEL NO. 4014-13



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

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 derailling. 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 derailling 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-spike the outer portions of the plates. **Do not, as a short cut, permanently remove the sleeper plates. They are needed to support the rail and hold to gauge.**

Adjusting Derail to Rail Height

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

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



Too High

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



Too Low

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



Just Right

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



SABERTOOTH PORTABLE DERAILERS (MADE IN USA)

MODEL NO. 4014 SERIES

SaberTooth™ PORTABLE DERAILS

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



FEATURES

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

SPECIFICATIONS



TWO-WAY

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

Wooden Sleepers, Tie Spacing 482-610mm

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



LEFT/RIGHT THROW

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

Wooden Sleepers, Tie Spacing 457-610mm

Model No.	Suits Rail (kg)	Throw	Wt (kg)
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



Flashing Blue Light

Model No.

4115-01



Flashing Red Light

Model No.

4115-17



MoonSign

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

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



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.

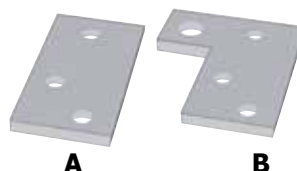
4015-185

Model No.

4015-170

Lifting Levers

Handle effort 9.1kg to flip derail



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

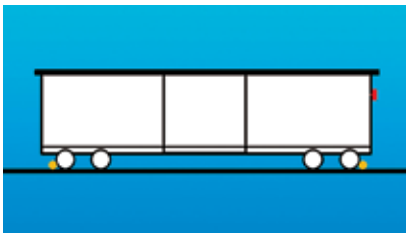
Encased in pavement with only a flangeway on inside of rail



Single Chocks or Double Chocks?

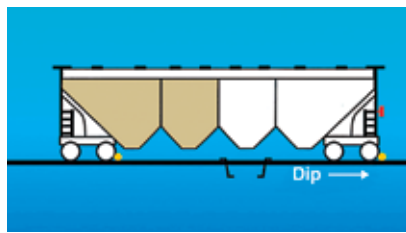
Recommended chocking procedures for single cars on flat track

Idle Car on Storage Track



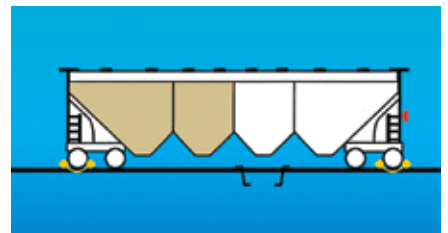
If the track is flat and there is no vibration, single chocks at each end can be used to block car movement. **Set brake before chocking**

Car Being Worked – Slight Dip



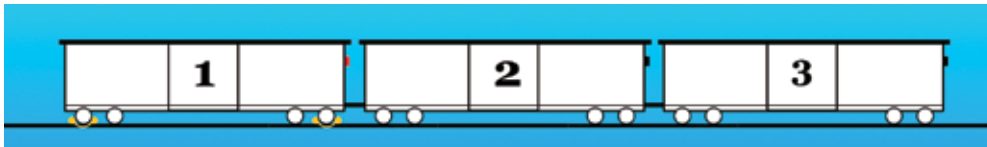
If the car tends to roll in one direction, single chocks at each end may be sufficient. **Set brake before chocking**

Car Being Worked - Flat Track

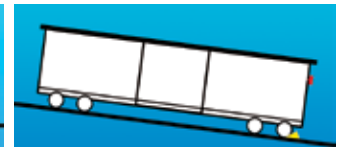


Double chocks on each end of the car provide two-chock blocking against movement in either direction. **Set brake before chocking**

Recommended chocking procedures for multiple cars on flat track



Car on sloped track



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

WARNING!

Do not use wheel chocks on sloped track

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



CAST STEEL WHEEL CHOCKS WITH SPURS (MADE IN USA)

MODEL NO. 4011 SERIES STANDARD CHOCK WITH FLAG

Single Chock & Flag (710mm handle)



Double Chock & Flag (710mm handles)



Model No	Type	Suits Rail Type	Weight (kg)	Model No	Type	Suits Rail Type	Weight (kg)
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

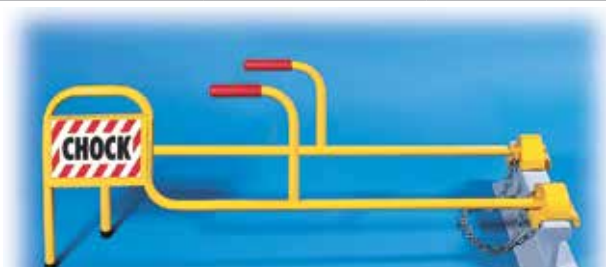
Keep your head and hands away from the rail car when placing wheel chocks.

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)	Model No.	Suits Rail Type	Weight (kg)
4011-32	Exposed	7.3	4011-34	Exposed	8.2
4011-33	Flush	7.3	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)	Model No.	Suits Rail Type	Weight (kg)
4011-36	Exposed	6.4	4011-38	Exposed	7.7
4011-37	Flush	6.4	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



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	47-60	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	47-60	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 47-60kg)

RAIL SKIDS (MADE IN USA)

MODEL NO. 4016 SERIES CHOCKING SKID FOR FLUSH RAIL

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



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



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LOCOMOTIVES & RAIL CAR STOPPING DEVICES

specialisedforce.com.au

SPECIALISED FORCE CUSTOMISED RAIL STOP/CHOCK

OVERVIEW

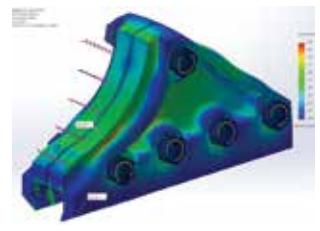
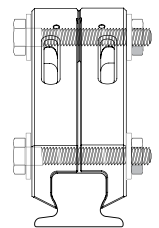
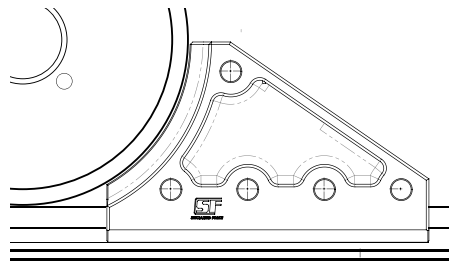
The Specialised Force Customised RAIL STOP/CHOCK products provide innovative and flexible solutions for a variety of rail stop/chock applications across multiple industries and rail gauges (e.g., freight/passenger rail lines, crane rail lines, etc.).

FEATURES

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

TYPICAL DESIGN AND OPERATIONAL CHARACTERISTICS

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



TYPICAL INDUSTRIAL APPLICATIONS



Stacker/Reclaimer Rail
Wheel Stop/Chock



Rail Freight & Passenger
Car Rail Wheel Stop/Chock



Gantry Crane Rail
Wheel Stop/Chock

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


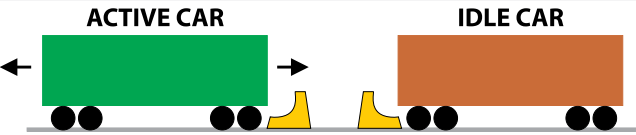
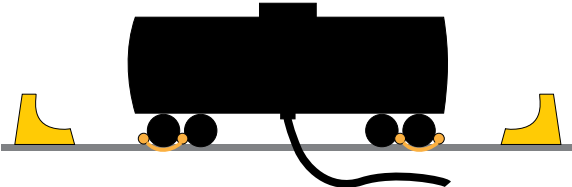



MODEL NO. 4016 SERIES

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

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

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

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

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

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

Model No.	Type	Style	Weight (kg)
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

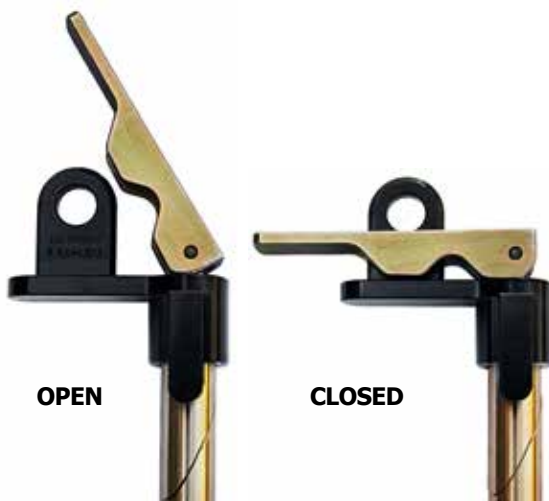




DIRECTIONAL / THROTTLE LOCK OUT (MADE IN CANADA)

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

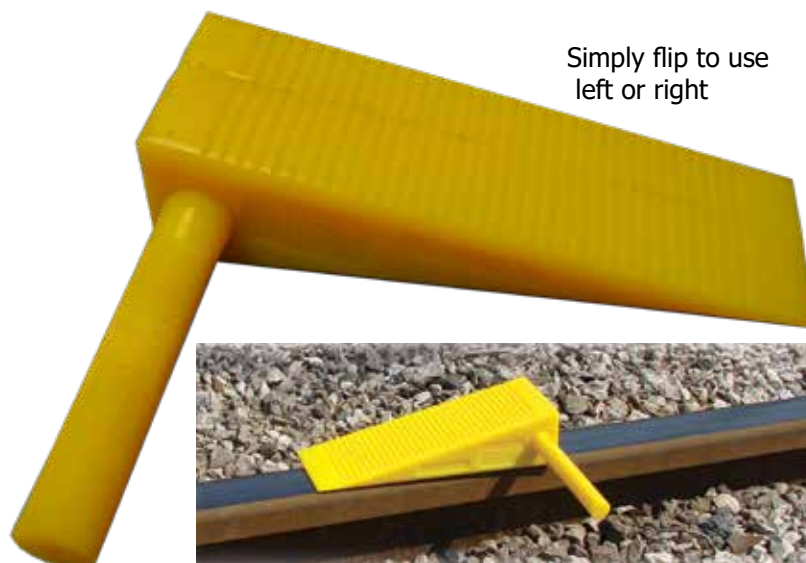
- Simple, maintenance free design
- Precision machined
- Heat treated components

SPECIFICATIONS

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

NINE LIVES WHEEL CHOCK WEDGE

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



Simply flip to use
left or right

IMPORTANT SAFETY & USE INFORMATION:

- **Do not use wheel wedge for cars being loaded or unloaded — use steel wheel chocks instead.**
- Do not use if car is raised at one 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 derailing. For chocking tank cars and other freight cars, loading or unloading hazardous materials and used where a spark from a steel wheel chock could ignite dust or fumes.

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.

ALDON
CO



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

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

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

SINGLE - For one direction



Model No.	Rail Type	Wt (kg)
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	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).

are required per set).



Model No.*	Suits Rail Size (kg)	Style	Type	Weight (kg)
4018-12-I	47-60	BIG RED	Inside	57
4018-12-O	47-60	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

ALDON
CO



DILLON



GIGASENSE

HI-TOOL CO., LTD

Starrett

Test, Measurement & Dynamometers



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TEST, MEASUREMENT & DYNAMOMETERS

128-141

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RAIL PULLER "RAILPULL" (MADE IN USA)

MODEL NO. 4023-74

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

FEATURES

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

SPECIFICATIONS

Model No.	Wt (kg)
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.

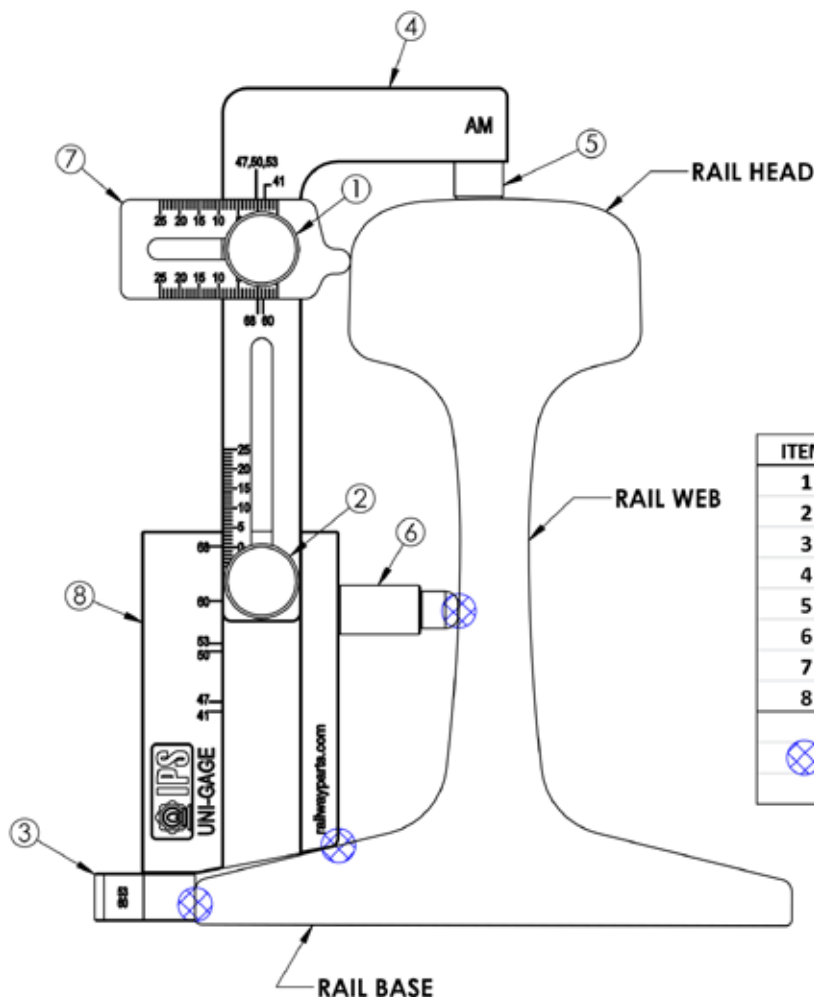
FEATURES

- 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



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

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

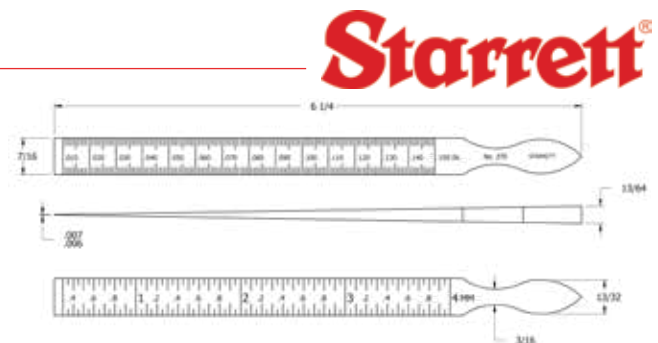
SPECIFICATIONS

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

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

RAIL TAPER GAUGES (MADE IN USA)

MODEL NO. 412



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

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

SPECIFICATIONS

Model No.	Features	Temperature Range (°C)	Unit Wt (kg)	Image
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



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



Model No.	Track Alignment (Base/Top)	Suits Gauge*	Bracket Ends*	Suits Rail (kg)	Insulated (Yes/No)	Dimensions (mm)	Weight (kg)
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**

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%

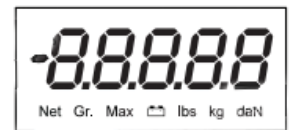
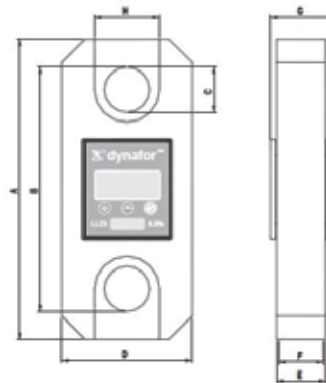
TECHNICAL CHARACTERISTICS

- 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

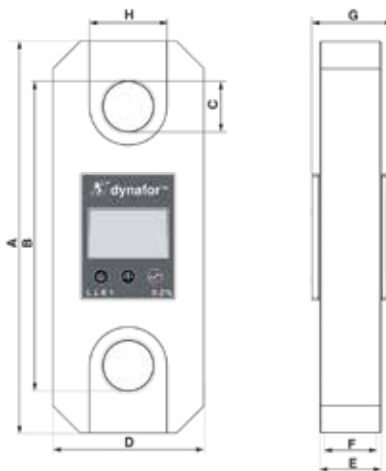
Strain gauge measurement of the extension, within its limits of elasticity, of a metal body subjected to traction stress. The sensor generates an electrical signal that is proportional to the load. This signal is processed by a micro-processor analyser and then displayed on a built in LCD display.

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



Model No.		LLX1-0.5	LLX1-1	LLX1-2	LLX1-3.2	LLX1-5	LLX1-6.3	LLX1-12.5	LLX1-20
Maximum Capacity	Tonne	0.5	1.0	2.0	3.2	5.0	6.3	12.5	20.0
Test Load	Tonne	0.75	1.50	3.00	4.80	7.50	9.60	18.75	30.00
Safety Coefficient		Minimum 4							
Precision		0.2 % FS							
	± daN	1	2	4	6	10	13	25	40
Increment	daN	0.2	0.5	1	1	2	2	5	10
Max. Display	daN	110 % maximum capacity							
Number Height	mm	18							
Autonomy		450h (Batteries 1.5 V "AA")							
Weight	kg	1.1	1.1	1.3	1.5	2.3	2.3	4.3	7
IP Protection		I.P. 65							
Usafe		From - 20° to 40°C							
Sensitivity to T°		0.05% per 10°C							
Sensor Material		Aluminium							
Dimensions mm	A	220	220	233	243	275	275	343	371
	B	196	196	207	207	217	217	257	269
	C	14	14	22	22	28	28	42	54
	D	90	90	100	100	115	115	125	134
	E	32	32	32	32	32	32	51	67
	F	16	16	24	24	29	29	48	64
	G	47.5	47.5	47.5	47.5	47.5	47.5	66.5	67
	H	45	45	50	50	57	57	62	66
Radio Option		RF technology: Zigbee 2.4 GHz				Range : 40 m in free field, see details § 14			

LLX2 ELECTRONIC / DIGITAL – DYNAMOMETERS

DYNAFOR™ Offer an extensive range of load link dynamometers based on the strain gauges technology. This State-of-the art technology is utilised in the new generation LLX2 and LLXH, the connection between sensor and display, USB connection between display and PC, and monitoring software.

DYNAFOR™ LLX2 devices are precision load indicators to measure tensile forces (N) and to determine hanging loads (kg).

One DYNAFOR™ LLX2 units consists of a sensor and a remotely installed display (2.4GHz connection).



LLX2-3.2 shown

Extended Range

- Comes in seven capacities: 0.5T, 1T, 2T, 3.2T, 5T, 6.3T and 10T.

Removable Display

- The LLX2 display attaches securely to the sensor unit or can be held in your hand for remote operation.

Crossed Fastening Planes

- The two axis of the sensor are crossed, enabling movements of lifting accessories on both sides, thus avoiding stresses due to load movements and enhancing appliance precision (Coplanar version available on request).

Resistant To Shock and Weather

- The Dynafor LLX2 can be used indoors and outdoors, with excellent shock and moisture resistance, rated to IP66 protection.

High Precision

- The Dynafor LLX2 has an accuracy of 0.1%, the industry standard.

A Wireless Link with 80 Metre Range

- With its 2.4GHz frequency band, the Dynafor LLX2 provides a large operating range (80 metres) and can be used simultaneously in an environment with no risk of interference where a number of different devices are operating.

High Endurance

- Sensor battery life: 300 to 1000 hours, depending on functions used, and 3000 hours while on standby.
- Display battery life: 48 hours while in use.

Intuitive Commands

- Use of and access to the various functions is fast and easy.

Interchangeable Displays

- The Dynafor LLX2 uses a single model display for all models, ensuring high utilisation and flexibility.

Several Sensors and Displays can be Associated

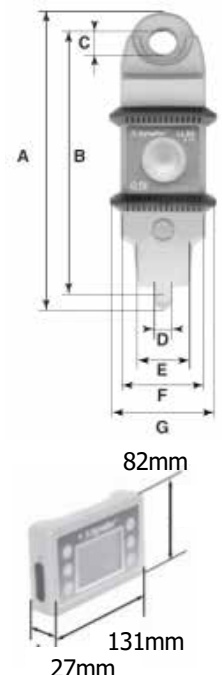
- Up to 4 sensors can be associated to up to 4 displays each.

PC Link

- The optional PC Connection Kit (PC to LLX2 via USB) allows advanced processing of measurement data.

SPECIFICATIONS

MODEL		LLX2-0.5	LLX2-1	LLX2-2	LLX2-3.2	LLX2-5	LLX2-6.3	LLX2-10	Display Unit	
Maximum capacity	Tonne	0.5	1	2	3.2	5	6.3	10	All	
Test load	Tonne	0.75	1.5	3	4.8	7.5	9.6	15	-	
Safety coefficient		Minimum 4								
Precision		0.1% according to ISO 376 at 21°C (I.P. 67 = 0.2%)								
Increment	daN	0.5	1	2	3.2	5	6.3	10	-	
Max. Display	daN	0.1	0.2	0.5	0.5	1	1	2	<	
Number height	mm	550	1100	2200	3520	5500	6930	11000	<	
Autonomy		-	-	-	-	-	-	-	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.

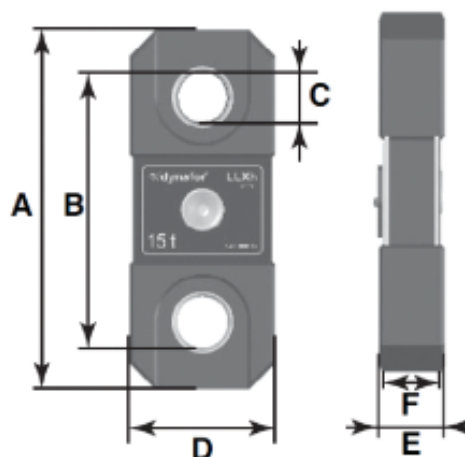
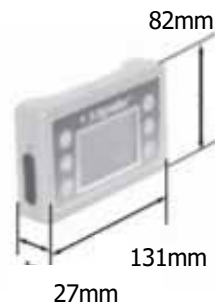
They are precise within +/- 0.2% and are available from 15T (150kN) to 250T (2,500kN).



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	-



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

RTM - ROPE TENSION METER

RANGE OF APPLICATION

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

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

FUNCTION



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



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



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

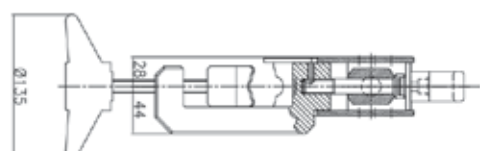
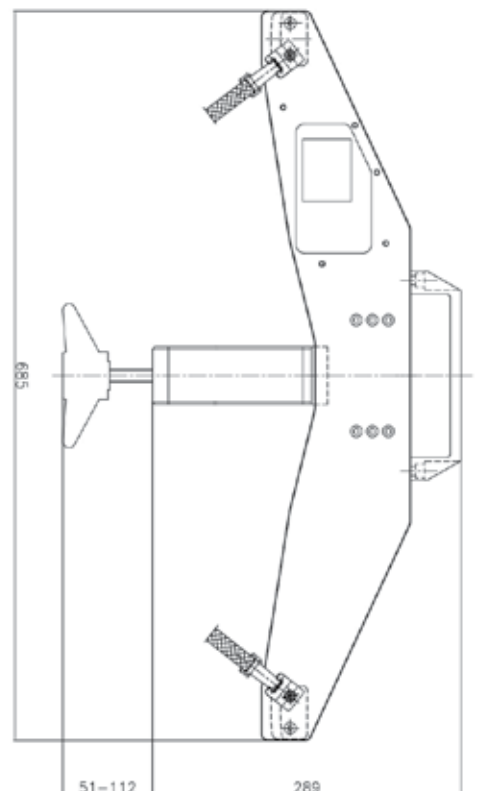
SAFETY

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

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

SPECIFICATIONS

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



QUICK CHECK "RED" CABLE/WIRE TENSION METER

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

ALDON
CO

DURAPAC
ENGINEERED FOR RELIABILITY

zwicky

Track Jacks & Wagon Stabilisers



TRACK JACKS & WAGON STABILISERS

146-159

JACK – SAFE D LOCK – DURAPAC	146
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SAFE D LOCK

DURAPAC
ENGINEERED FOR RELIABILITY

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.

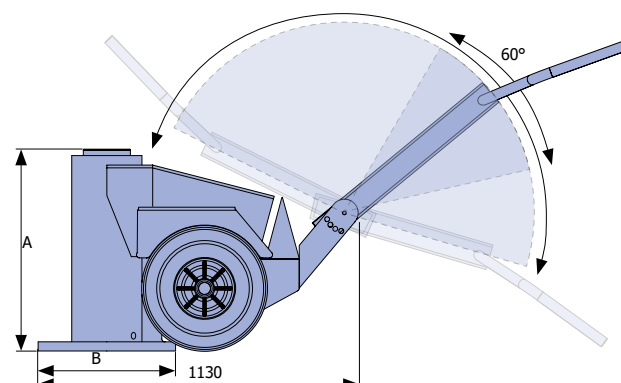
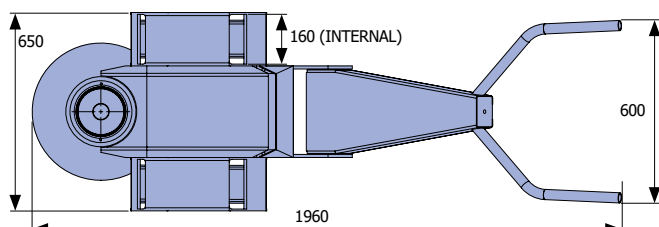


Model Number	Jack Capacity			Cylinder Effective Area (cm2)	Collapsed Height (mm)**	Stroke (mm)	Maximum Lift Height (mm) ***	Weight (kg)	Oil Tank Capacity (L)
	Metric (tonne)	US (ton)*	(kN)						
SDL-07068	70	77	686	143	680	404	1,408	290	24
SDL-07081	70	77	686	143	812	535	1680	320	24
SDL-10068	100	110	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

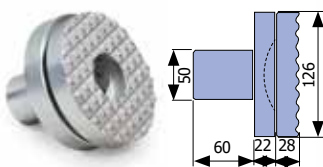
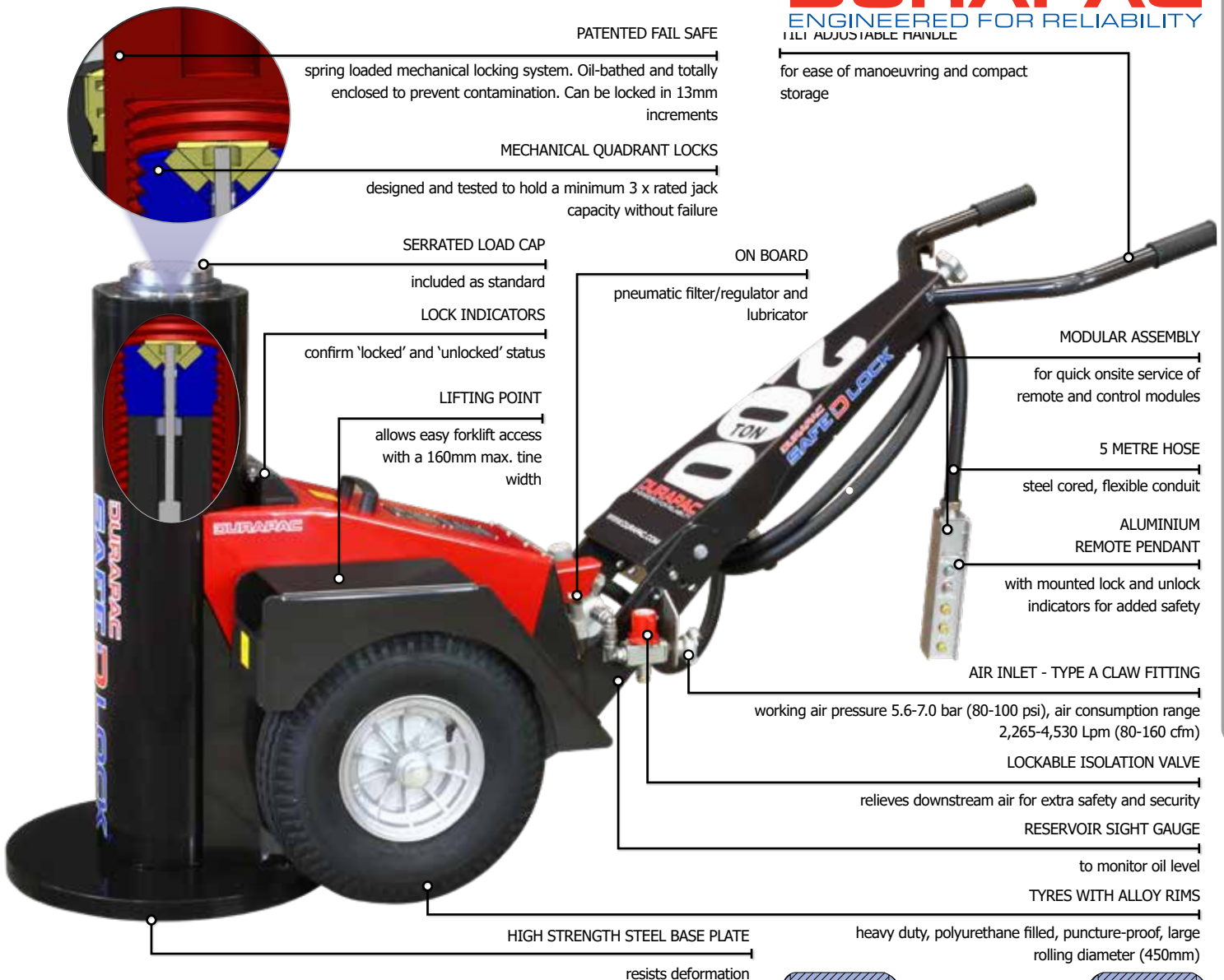
* Nominal Cylinder Capacity in ton - see kN values for actual capacity ** Includes load cap height of 22 mm

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

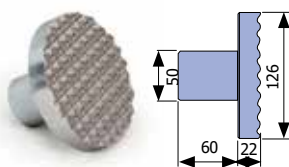
Model Number	A	B
	Collapsed Height (mm)	Base Plate Diameter (mm)
SDL-07068	680	505
SDL-07081	812	505
SDL-10068	680	505
SDL-10081	812	505
SDL-15068	680	460
SDL-15096	960	520



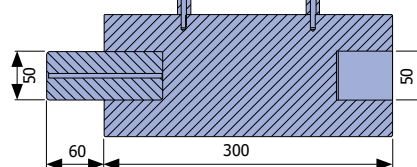
DURAPAC
ENGINEERED FOR RELIABILITY
TILT ADJUSTABLE HANDLE



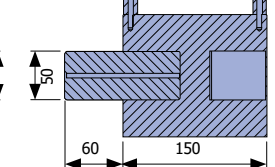
SDS TILT SADDLE



SDLC LOAD CAP



EXTENSION 300mm



EXTENSION 150mm

Model Number	Capacity (Tons)	Description	Height (mm)	Diameter (mm) 'A'	Total Length (mm)	Spigot Depth (mm)	Spigot Diameter (mm)	Weight (kg)
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

MECHANICAL TRUCK/CARRIAGE JACK(MADE IN USA)

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

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

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

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

ALDON
CO



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

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

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



MECHANICAL TRUCK/CARRIAGE JACK (MADE IN USA)



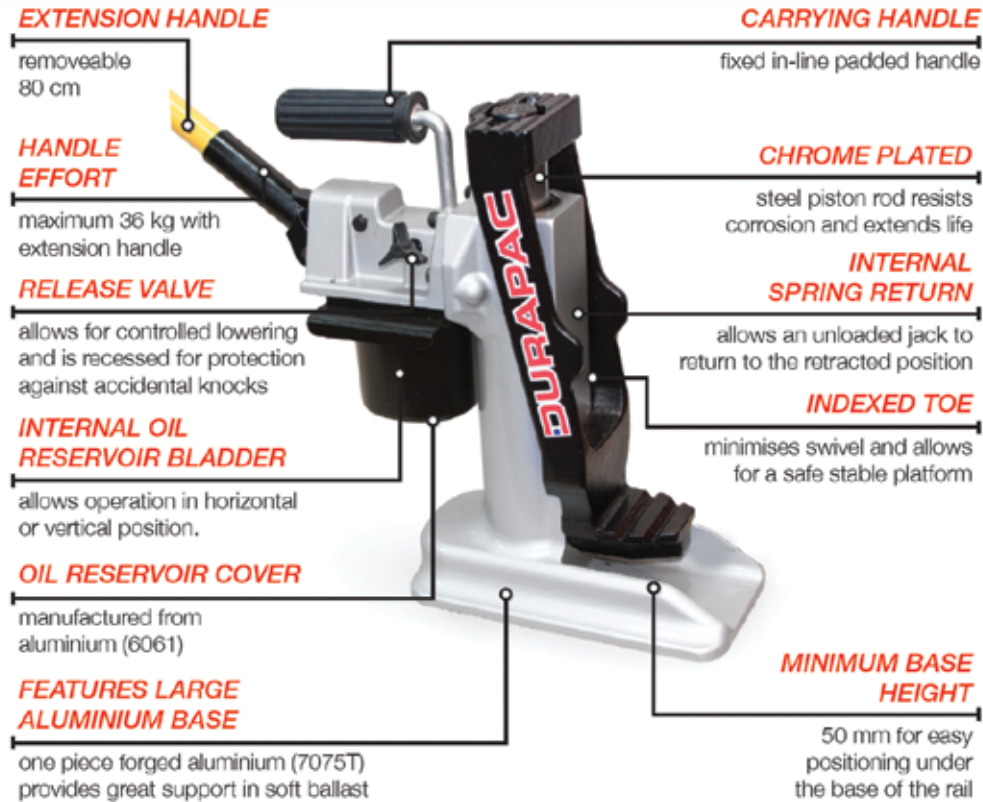
SPECIFICATIONS

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

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

HYDRAULIC TRACK JACK

DURAPAC
ENGINEERED FOR RELIABILITY



Did you know...

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



HYDRAULIC TRACK JACK

MODEL NO. DRJ-10 & DRJ-15

DURAPAC
ENGINEERED FOR RELIABILITY

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

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



DRJ-10

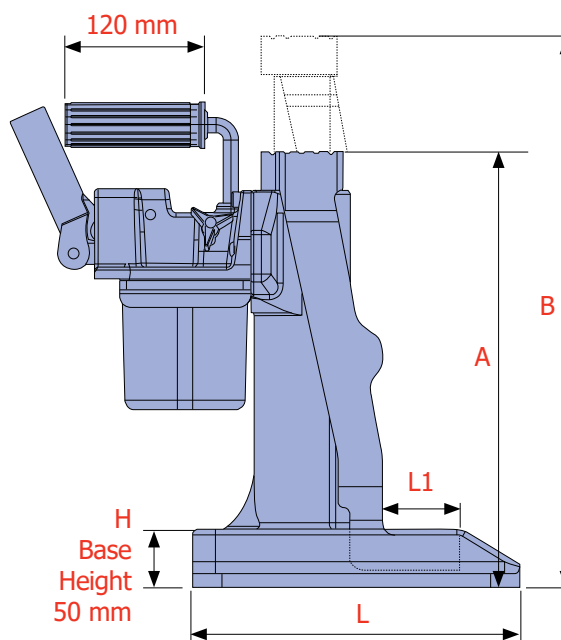
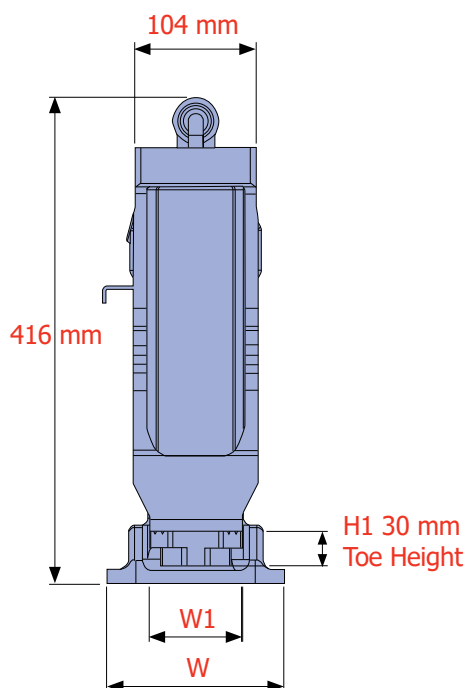


DRJ-15

QUICK RELEASE
for fast retraction speed

SPECIFICATIONS

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

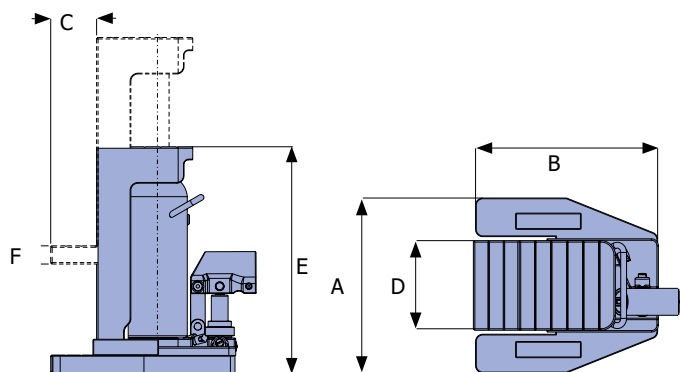


MODEL NO. DTJ SERIES

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

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

DURAPAC
ENGINEERED FOR RELIABILITY



CHROME PLATED

steel piston rod resists corrosion and extends life

DOVETAIL DESIGN

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

EASE OF USE

all jacks have been designed for ease of use and handling

CARBON STEEL BASE

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

OPERATING HANDLE

included with all models

360° ROTATING

pump handle on models 2.5-15 ton

INTERNAL STROKE LIMITER

prevents piston rod over-extension

LIFTING TOE

manufactured from high strength alloy steel

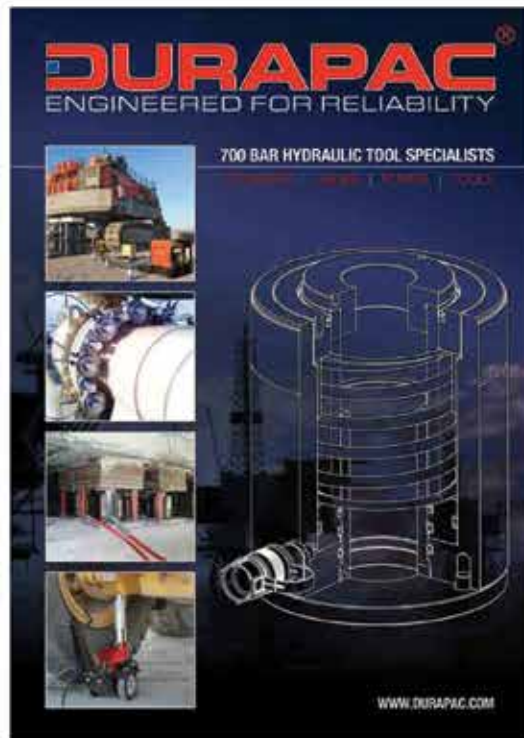
SPECIFICATIONS

Model No.	Jack Capacity ton* / kN	A Jack Width (mm)	B Jack Depth (mm)	C Toe Length (mm)	D Toe Width (mm)	E Collapsed Height (mm)	F Min. Toe Height (mm)	Stroke (mm)	Weight (kg)
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



TRACK JACKS & WAGON STABILISERS

specialisedforce.com.au

HYDRAULIC TRACK JACK (MADE IN UNITED KINGDOM)

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

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

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

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



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

FEATURES

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

SPECIFICATIONS

Model No.	Type	Main Purpose / Use	Suits Rail	WLL on Head (kg)	WLL on Toe (kg)	Closed Height (mm)	Toe to Head (mm)	Stroke (mm)	Unit Wt (w/o handle) (kg)
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)

zwick



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.**

TRACK JACKS & WAGON STABILISERS

specialisedforce.com.au

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.



SCAN
& PLAY

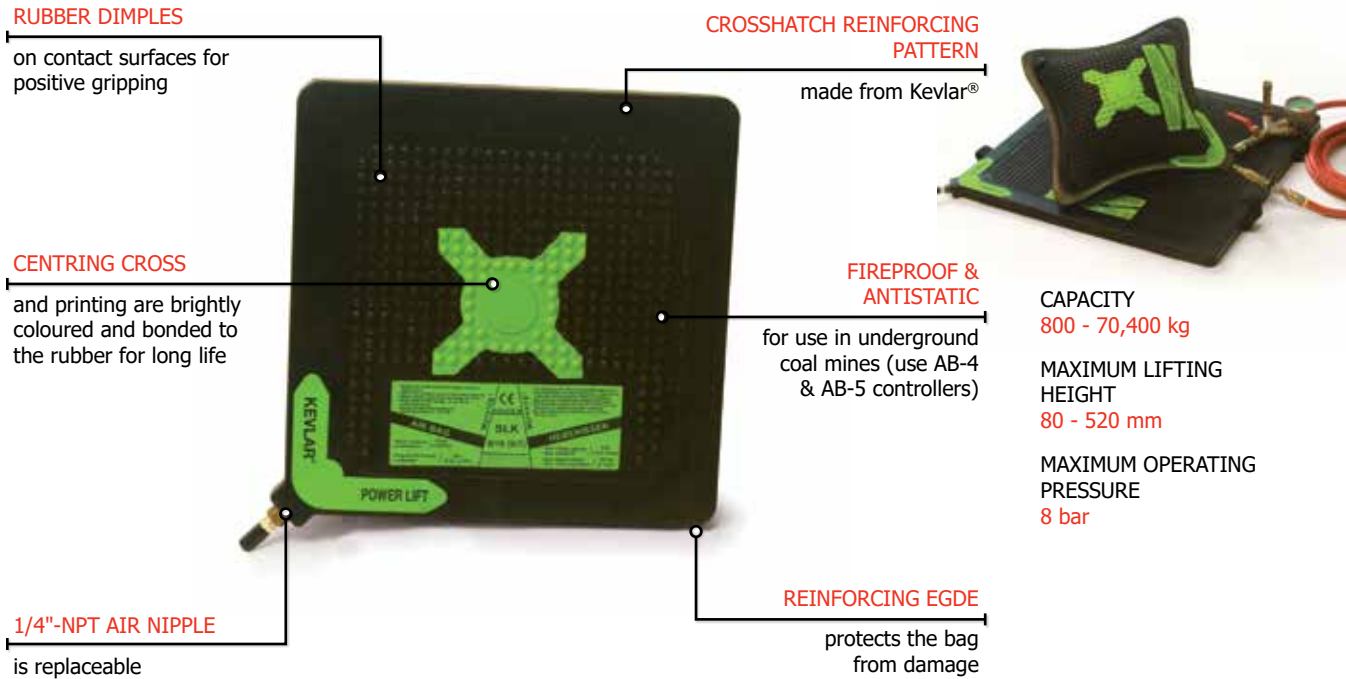
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Did you know...

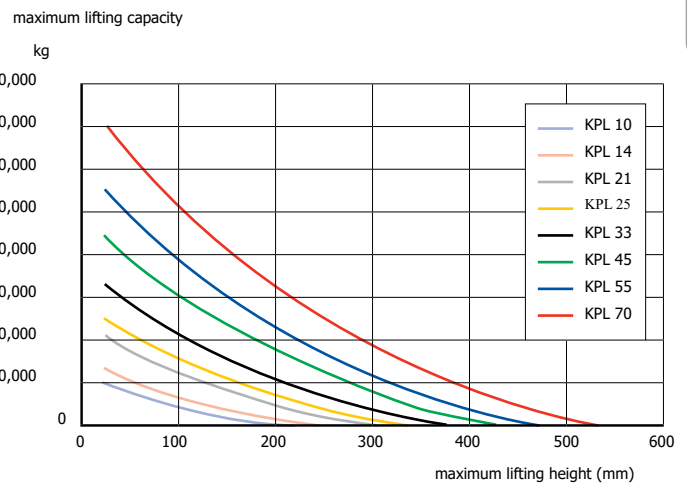
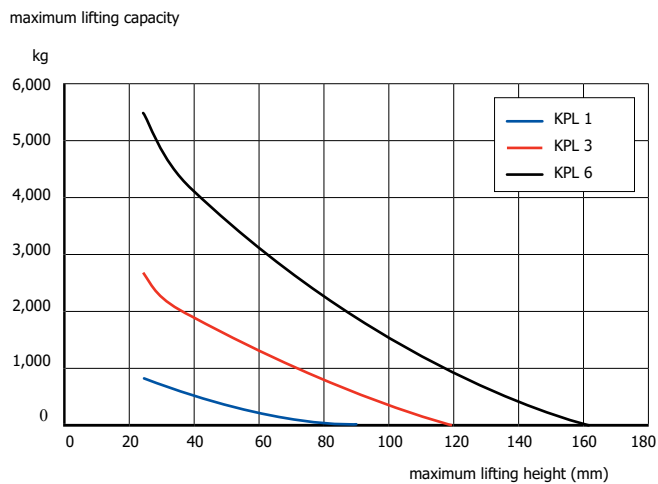
That you can use two air bags stacked on top of each other to increase the lifting height?



KEVLAR® POWER LIFT AIR BAGS



LIFTING CAPACITY VS LIFTING HEIGHT GRAPH



Model No.	Max. Lifting Capacity (kg)	Max. Lifting Height (mm)	Thickness (mm)	Insertion Height (mm)	Dimensions (cm x cm)	Max. Air Requirement (L)	Max. Inflation Pressure (bar)	Min. Burst Pressure (bar)	Weight (kg)
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



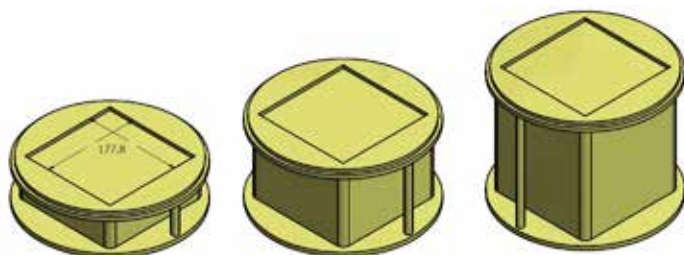
ABV-2

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



SCAN
& PLAY

14465 Jack Plate



Larger Capacity Block Kits Available on Request



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



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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/m ² 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-SERIES	WR-10BB	HSC-SERIES
Single Hand	Double Hand	Double Hand	Double Hand	Bench Type	Swagers & Cuts Double Hand

Model No.	Type	Length (mm)	Capacity (mm)	Weight (kg)	Model No. for Spare Blade Set	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

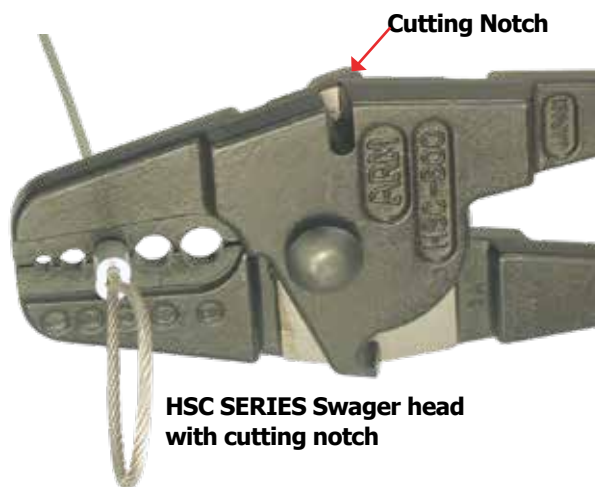
** No cutting function

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-LI230
Battery Voltage (VDC)	25.2V
Battery Type	LI-Ion 4.0 AH
Output Force (ton)	10
Size (mm) L x W x H	355 x 90 x 350
Swaging Speed (sec)	7
Charging Time (min)	120
Accessories (Included in kit)	Tool, 1 x Battery, 230VAC Charger, Check Gauge, RC-450 Cutter, Die Removing Tool, Operating Instruction Scan Code in the Case & Carry Case



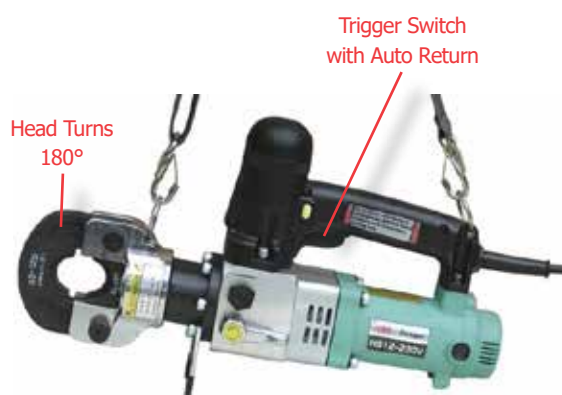
BC 0075G (230V) Charger

BPL-2540 Battery



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
Tool Weight (kg)	7.5
Gross Weight (kg)	18
Dimensions (mm)	433 x 104 x 243 (LxWxH)
Swaging Speed (sec)	18
Accessories	4 set dies, RC450 Wire Rope Cutter, Screw Driver (For Replacing Dies), Shoulder Strap, Carry Case & Check Gauge



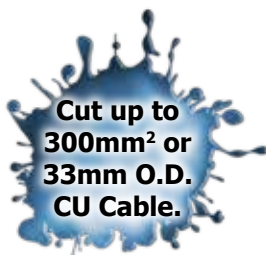
**REFER TO SPECIALIZED FORCE REPRESENTATIVE FOR ARM SWAGING SLEEVE
AND ADDITIONAL TOOL TECHNICAL INFORMATION**

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

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

FEATURES

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



TOOL SPECIFICATION

Length (mm)	260
Weight (kg)	0.61

CUTTING SPECIFICATION

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

Cutting capacity for Non-ferrous cables only.

IZUMI



MODEL No. 31291 & 12629 (MADE IN USA)

GREENLEE
A Texttron Company



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

RATCHET CABLE CUTTERS (MADE IN USA)

MODEL NO. 34081 (756)



The Greenlee 34081 (756) Heavy-Duty Ratchet Cable Cutter with Rubber Boot. Cuts copper and aluminium up to 800 mm².

FEATURES

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

TOOL SPECIFICATION

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

CUTTING SPECIFICATION

AL/CU	800mm ² (Max. Use) 500mm ² (Frequent Use)
-------	--

MODEL NO. 34084 (757)



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

FEATURES

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

TOOL SPECIFICATION

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

CUTTING SPECIFICATION

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



HAND HYDRAULIC CUTTERS (MADE IN JAPAN)



MODEL NO. S SERIES

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



Cutters supplied with case

FEATURES

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

SPECIFICATIONS

Model No.	Latch	Cuts Max	Pump Stages	Max Ø (mm)	Cu	Al	ACSR	Guy Wire*	Wire Rope	Soft Steel	ReBar (400 to 500 Mpa)	Rebar (650Mpa)	Chain (Gr80)	Comms	Weight (kg)
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 RATCHET SCISSOR CUTTERS (MADE IN JAPAN)



OVERVIEW

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

FEATURES

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

STANDARD ACCESSORIES

- Wrist Strap
- Carry Case

OPTIONAL ACCESSORIES

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



DC18RC



BL1850B



DM18M

Latch Style Head



SLV-S24M

Inline Guillotine



SLV-Y30M

Inline Scissor

TOOL SPECIFICATIONS

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

CUTTING SPECIFICATIONS

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

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

BATTERY RATCHET SCISSOR CUTTERS (MADE IN JAPAN)



OVERVIEW

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

FEATURES

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

STANDARD ACCESSORIES

- Wrist Strap
- Carry Case

OPTIONAL ACCESSORIES

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



DC18RC



BL1850B



DM18M



S7-KY33M
Scissor Ratchet

S7-K50YM
Scissor Ratchet

TOOL SPECIFICATIONS

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

CUTTING SPECIFICATIONS

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

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

BATTERY RATCHET CUTTERS (MADE IN JAPAN)



OVERVIEW

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

FEATURES

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

STANDARD ACCESSORIES

- Wrist Strap
- Carry Case

OPTIONAL ACCESSORIES

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



DC18RC



BL1850B



DM18M

TOOL SPECIFICATIONS

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

CUTTING SPECIFICATIONS

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

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



S7-K50M
Ratchet

S7-K65M
Ratchet

S7-K54ACSRM
Ratchet

BATTERY HYDRAULIC CUTTERS (MADE IN JAPAN)

OVERVIEW

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

FEATURES

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

STANDARD ACCESSORIES

- Wrist Strap
- Carry Case

OPTIONAL ACCESSORIES

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



DC18RC

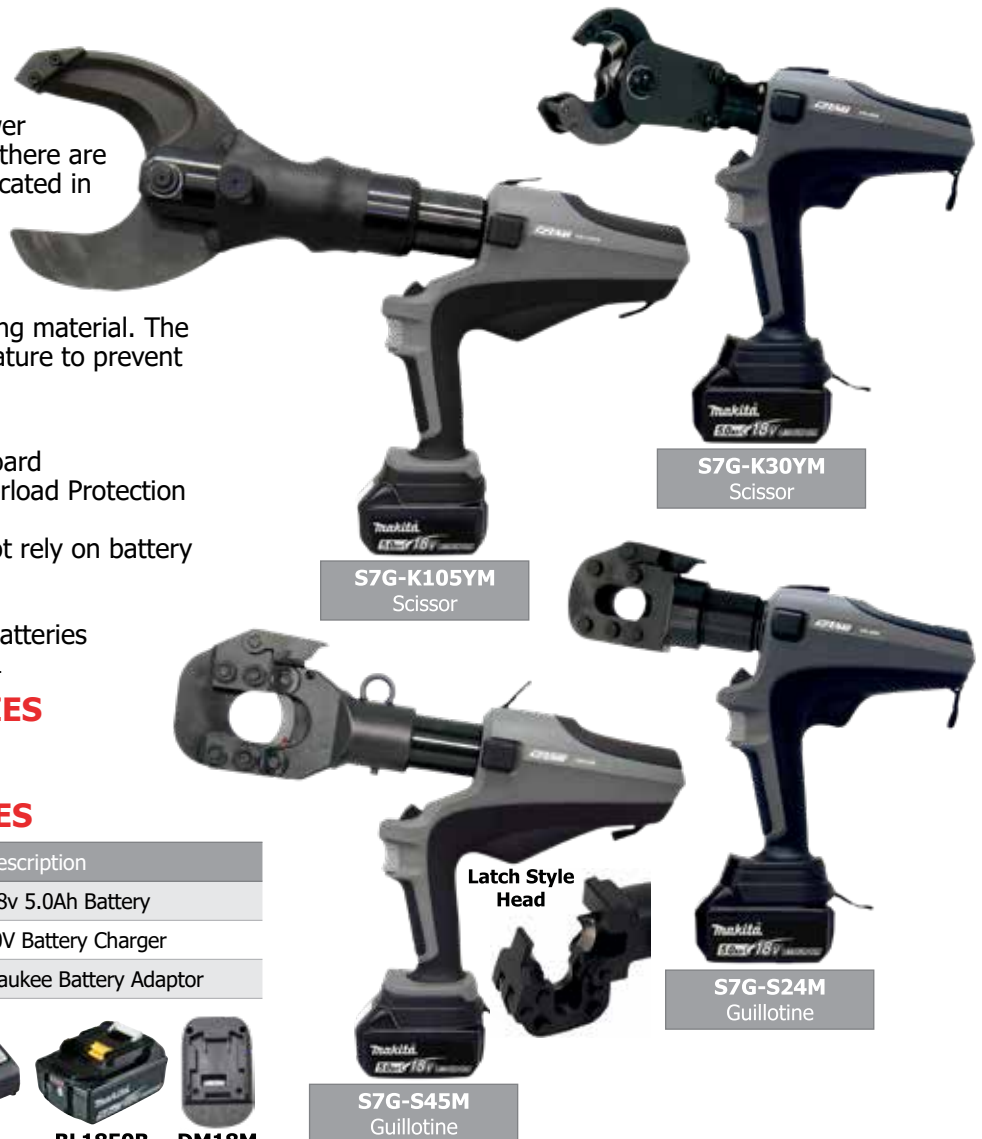


BL1850B



DM18M

IZUMI



S7G-K30YM
Scissor

S7G-K105YM
Scissor

S7G-S24M
Guillotine

S7G-S45M
Guillotine

TOOL SPECIFICATIONS

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

CUTTING SPECIFICATIONS

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

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

BATTERY RATCHET CUTTERS (MADE IN JAPAN)

OVERVIEW

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

FEATURES

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

STANDARD ACCESSORIES

- Shoulder strap
- Carry Case

OPTIONAL ACCESSORIES

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



DC18RC



BL1850B



DM18M



Pin Style Head

S7L-S550M
Guillotine



S7L-K105YM
Scissor



S7L-S132M
Guillotine

TOOL SPECIFICATIONS

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

CUTTING SPECIFICATIONS

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

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

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



**CUTS
IN
4.5SEC**



WIEGHT
2.0kg Including Battery

OVERALL LENGTH
365mm

CAPACITY
12.7mm Common Bolt
12.7mm Threaded Rod
9.52mm Steel Rod
7.93mm GuyStrand
5.19mm One-Time disposable lock



SPECIFICATIONS

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

FEATURES

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

ORDERING INFORMATION

Model No.	Description
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

ELECTRICAL, WINCHES, STRINGING & CABLE LAYING

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REMOTE HYDRAULIC CUTTING HEADS (MADE IN JAPAN)



MODEL NO. SP & P SERIES

Remote heads are for fast cutting action and allow remote operation manoeuvrability into tight areas. These guillotine style cutting heads jam less than scissor shear type cutters and have spring return rams. The head can be operated by any hydraulic pump with rated oil pressure of 700 Bar. The blades are easily replaceable and the head is a snap lock spring release on smaller models and lock pin type on larger capacity heads.



SP-20A

SP-24

SP-32

SP-40A

SP-55A

P-60

P-85

P-132

***SP32CC1**

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

* Includes cable retaining plate (SP-32CC1)

FEATURES

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

SPECIFICATIONS

Model No.	Latch	Max Ø (mm)	Cu	Al	ACSR	Guy Wire*	Wire Rope	Soft Steel	Rebar (400 to 500Mpa)	Rebar (650Mpa)	Comms	Hyd Pressure (bar)	Wtweight (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	7.200
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 90-91 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 81-82 for hydraulic coupling configurations and hoses, supplied standard with screw type female 3050-3 coupling
- Battery or Electric pumps, refer pages 90-91

NEW INLINE 18V IZUMI 7 SERIES INLINE CRIMPERS



OVERVIEW

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

FEATURES

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

STANDARD ACCESSORIES

- Wrist Strap
- Carry Case

OPTIONAL ACCESSORIES

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



SPECIFICATIONS

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

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

A PROVEN PERFORMER 14.4V INLINE CRIMPER 12T

OVERVIEW

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

FEATURES

- The SL-510 is the latched head version of the SL-C510
- Compress conductors up to 400mm²
- Rapid ram advance mechanism
- Right or left handed operation
- 180° swivel head (SL-C510)
- Manufactured under ISO 9001
- 14.4VDC 4.0Ah Lithium-Ion Batteries with press charge indicator
- 12/24VDC-230VAC charger included ("CC" kit models)
- Sliding pin with lock function prevents head from opening accidentally

STANDARD ACCESSORIES

- Wrist Strap
- Carry Case

SPECIFICATION

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

COMPATIBLE DIES REFER TO PAGES 10 - 13

- 12T Dies 6.0-400mm² CU
- 12T Dies 6.0-300mm² AL

ORDERING INFORMATION

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

IZUMI



SL-C510

Inline "C" Head

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

Battery Level LED Indicator



12/24VDC BATTERY CHARGER ADAPTOR

230V BATTERY CHARGER ADAPTOR

ELECTRICAL, WINCHES, STRINGING & CABLE LAYING

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6 & 12 TONNE BATTERY HYDRAULIC CRIMPERS



OVERVIEW

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

FEATURES

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

STANDARD ACCESSORIES

- Shoulder Strap
- Carry Case

OPTIONAL ACCESSORIES

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



SECIFICATIONS

Kit Model No.	Style	Jaw Opening (mm)	DIES type	DIES refer to page/s	Force (Kn)	Capacity (mm²)		Dimensions (mm)	Weight inc. BL1850B Battery (kg)
						AL	CU		
S7G-C431M(BB)	Pistol "C" Head	31	12T	10 - 13	120	300	300	413 L x 286 H x 92 W	7.4
S7G-C510M(BB)	Pistol "C" Head	42	12T	10 - 13	120	300	400	436 L x 286 H x 92 W	7.8
S7G-630M(BB)	Pistol Dieless	18	Dieless	N/A	60	10-240		401 L x 298 H x 82 W	5.8

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



S7G-C431M
Pistol "C" Head

S7G-C510M
Pistol "C" Head

S7G-630M
Pistol Dieless

12 - 15 TONNE BATTERY HYDRAULIC CRIMPERS

OVERVIEW

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

FEATURES

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

15T DIES

15 Tonne Hex Die-Set Suits S7L-610M & S7L-C610M				
Model No.	mm 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



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

STANDARD ACCESSORIES

- Shoulder Strap
- Carry Case

OPTIONAL ACCESSORIES

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

SPECIFICATIONS

Kit Model No.	Style	Force (kN)	Jaw Opening (mm)	DIES type	DIES refer to page/s	Capacity (mm ²)		Dimensions (mm)	Weight inc. BL1850B Battery (kg)
						AL	CU		
S7L-431M(BB)	Lunch Box "C" Head	120	31	12T	10 - 13	300	300	486 L x 263 H x 92 W	7.7
S7L-510M(BB)	Lunch Box "C" Head	120	42	12T	10 - 13	300	400	508 L x 263 H x 92 W	8.0
S7L-C610M(BB)	Lunch Box "C" Head	134	50	15T	10 - 13	400/500	630	574 L x 263 H x 108 W	10.6
S7L-610M(BB)	Lunch Box Latched	134	50	15T	10 - 13	400/500	630	542 L x 263 H x 94 W	9.0

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

IZUMI

S7L-431M
Lunch Box "C" Head



S7L-510M
Lunch Box "C" Head



S7L-C610M
Lunch Box "C" Head



S7L-610M
Lunch Box "Latched" Head



DC18RC



BL1850B



DM18M

6 & 12 TONNE BATTERY HYDRAULIC MULTITOOL



OVERVIEW

The S7G Series Battery Hydraulic 12-tonne pistol-style multitool is also portable, lightweight, and ergonomically designed.

The SLV Series Battery Hydraulic 6-tonne Inline-style multitool is portable, lightweight, versatile, and ergonomically designed for one-handed operation, making it ideal for use in confined spaces.

With the right attachments (sold separately), these tools can be converted into many different tools, functioning as a cable crimper, cable cutter, angle steel puncher, threaded rod cutter, or knockout puncher.

FEATURES

- Upgraded Electronic Circuit Board
- Brushless 18V Motor with Overload Protection
- Ergonomic Design for One-Hand Operation (Inline)
- Swivel Head
- Pull Pin Head Design
- Ergonomic Design
- Made in Japan
- Compatible with Makita 18V Batteries
- Manufactured under ISO 9001

STANDARD ACCESSORIES

- Wrist Strap SLV Series
- Shoulder Strap S7G Series
- Carry Case

OPTIONAL ACCESSORIES

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



DC18RC



BL1850B



DM18M

SPECIFICATIONS

Model No.	SLV-NDM	S7G-MX250M
Motor	Brushless 18V	Brushless 18V
Force at Die Face	70 kN	127 kN
Head Rotation	180°	275°
Dimensions (mm)	105 L x 374 H x 80 W	346 L x 328 H x 82 W
Weight	2.9 kg with BL1850B Battery (without crimp head)	4.0 kg with BL1850B Battery (without crimp head)



200AT-410 12-Tonne Crimp Head Sold Separately

S7G-MX250M
Pistol Multitool



SLV-NDM
Inline Multitool



Simple Spring Loaded Twist Pin Design for Changing Heads

CUTTING, CRIMPING & PUNCHING HEADS FOR S7G-MULTITOOL



200AT-410 12 Tonne Crimp Head	200AT-50YC Cable Cutter Attachment	200AT-13WT Threaded Rod Cutter Attachment
<ul style="list-style-type: none"> Opening Between Die Faces: 17mm Maximum Capacity: 300mm² (AL/CU) Weight: 2.4kg Accepts existing 12-ton U-type Dies Refer to Page/s: 10-13 for 12T Dies 	<ul style="list-style-type: none"> Cutting Capacity: Up to 50mm O.D. Cable (Including Insulation) Cuts nonferrous cables only Weight: 1.0kg 	<ul style="list-style-type: none"> Cut: <ul style="list-style-type: none"> M10 or 3/8 BSW Steel or SS Threaded Rod M12 or 1/2 BSW Steel or SS Threaded Rod Includes: 13WT-07 M12 Blade Set Optional Blade Sets: <ul style="list-style-type: none"> 13WT-06 M10 13WT-02 3/8 BSW 13WT-05 1/2 BSW



200AT-AP18 Angle Steel Puncher Attachment	200AT-9PD Knockout Puncher Attachment
<ul style="list-style-type: none"> Supplied with 3 sets of Punch Dies (Max capacity: 6mm Mild Steel): <ul style="list-style-type: none"> 10.5mm Diameter 13.5mm Diameter 17.5mm Diameter Size (mm): 186 L x 130 H x 67 W Weight: 3.8kg Throat Depth: 47mm To Centre of Punch: 23.5mm 	<ul style="list-style-type: none"> Punching Capacity: <ul style="list-style-type: none"> Up to 63.5 mm diameter hole in Stainless Steel Up to 115.5 mm diameter hole in 3.0 mm thick Mild Steel Punch & die, Draw Studs & Spacer Collars are the same as those used for SH-10 200AT-9PD Comes with Draw Studs & Spacer Collars Refer to SF Representative for suitable dies



ORDERING INFORMATION

Model No.	Description	S7G-MX250M	200AT-410 Crimp Head	200AT-50YC Cutting Head	200AT-13WT Cutting Head	200AT-AP18 Punching Head	200AT-9PD Punching Head	BL1850 Makita 18v 5.0Ah Battery	DC18RC Makita 230V Battery Charger
S7G-MX250M	12T Tool Only	1							
S7G-MX250M(BB)	12T Tool with Battery & Charger	1						2	1
S7G-MX250M/410(BB)	12T AL/CU Crimping Tool	1	1					2	1
S7G-MX250M/50YC(BB)	12T Cable Cutting Tool	1		1				2	1
S7G-MX250M/13WT(BB)	12T Threaded Rod Cutting Tool	1			1			2	1
S7G-MX250M/AP18(BB)	12T Steel Puncher	1				1		2	1
S7G-MX250M/9PD(BB)	12T Knock out Puncher	1					1	2	1

NOTE: All Tool Combinations Supplied with Case. Contact your Nearest Specialised Force Branch to Design your Own Kit.

CUTTING & CRIMPING HEADS FOR SLV-MULTITOOL



SL-6CJ 6T Crimping Jaw:	SL-CH Cutting Jaw:	SL-ACSR Cutting Jaw:	SL-GW Cutting Jaw:
Accommodates 6-ton round type dies for crimping Cu, Al, ACSR & ABC. Up to 240mm ² Capacity for Al, Cu and ACSR.	For cutting Al & Cu. Cutting capacity up to 32mm OD Cu/Al (300mm ²).	For cutting ACSR. Cutting capacity up to 20mm OD ACSR (Single Steel Core).	For cutting Al, Cu & ACSR. Cutting capacity up to 14.3mm for Cu, Al & ACSR.



NOTE: Jaws are sold separately.

CUTTING SPECIFICATIONS

Kit Model No.	Style	Force (kN)	Cuts	Opening Ø (mm)	Maximum Cutting Capacity for Material Type (mm)*										
					Wire Rope 6x7	Wire Rope 6x12	Wire Rope 6x19	Soft Steel Bar	ReBar (400 to 500 Mpa)	Rebar (650Mpa)	AL Strands	CU Strands	ACSR	Guy Wire 1x7	Guy Wire 1x19
SLV-ND/ACSR(BB)	Scissor	70	Al/Cu/ACSR	21	N/A	N/A	N/A	N/A	N/A	N/A	14	14	20	N/A	N/A
SLV-ND/CH(BB)	Scissor	70	Al/Cu	32	N/A	N/A	N/A	N/A	N/A	N/A	32	32	N/A	N/A	N/A
SLV-ND/GW(BB)	Scissor	70	Al/Cu/ACSR	19.5	N/A	N/A	N/A	9.3	9.3	N/A	14.3	14.3	14.3	9.3	9.3

ORDERING INFORMATION CUTTERS

Kit Model No.	Ram Stroke (mm)	Blade Opening (mm)	Reservoir Capacity (BB)	Dimensions (mm)	Weight Including Battery (kg)
SLV-ND/ACSR (BB)	-	21	45	554L x 110H x 80W	3.5
SLV-ND/CH(BB)	-	32	45	554L x 110H x 80W	3.5
SLV-ND/GW(BB)	-	19.5	45	554L x 110H x 8W	3.5

ORDERING INFORMATION CRIMPERS

Model No.	Description	SLV-NDM Tool Only	SL-6CJ Crimp Head	SL-CH AL/CU Cutting Head	SL-ACSR ACSR Cutting Head	SL-GW AL/CU/ACSR Cutting Head	BL1850 Makita 18v 5.0Ah Battery	DC18RC Makita 230V Battery Charger	6T-6mm Rounding Die	SL-CB Bending Tool
SLV-NDM	6T Tool Only	1								
SLV-NDM(BB)	6T Tool with Battery & Charger	1					2	1		
SLV-NDM/6CJ(BB)	6T Crimping Tool	1	1				2	1		
SLV-NDM/CH(BB)	6T AL/CU Cutting Tool	1		1			2	1		
SLV-NDM/6CJ/ACSR(BB)	6T Crimping & ACSR Cutting Tool	1	1		1		2	1		
SLV-NDM/ACSR(BB)	6T ACSR Cutting Tool	1			1		2	1		
SLV-NDM/GW(BB)	6T AL/CU/ACSR Cutting Tool	1				1	2	1		
SLV-NDM FENCING TOOL	6T Fencing Tool	1	1				2	1	1	
SLV-NDM/CB(BB)	6T Cable Bending Tool	1					2	1		1

NOTE: All Tool Combinations Supplied with Case. Contact your Nearest Specialised Force Branch to Design your Own Kit. Refer to Page/s: 9 for 6T Crimping Dies.

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



Model No.

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

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-431

INCLUDED ITEMS

12T Hand Crimper & Double moulded carrying case.

SPECIFICATION

Ram Stroke	31mm (Jaw opening)
Reservoir capacity	145 cc
Force at die face	106kN
Size	610 (l) x 150 (w) mm
Weight	6.3kg

FEATURES

The EP-431 has a standard jaw opening of 31mm and features a two stage rapid advance pumping system.

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

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

MODEL No. EP-510C

INCLUDED ITEMS

12T Hand Crimper & Double moulded carrying case.

SPECIFICATION

Ram Stroke	42mm (Jaw opening)
Reservoir capacity	200 cc
Force at die face	118 kN
Size	644 (l) x 150 (w) mm
Weight	8.0 kg

FEATURES

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

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

DETAILS (APPLIES TO BOTH MODELS)

- Dies are sold separately
Refer pages 191-194 for 12T Dies
- Specify the manufacturer's die and connector numbers
- Two stage pumping action for rapid ram advance to the connector hold position with minimum pumping action
- Replaceable Dropout bypass valve cartridge for easy repair
- Fibreglass handles
- 180° swivel head
- Twist handle pressure release



REMOTE HYDRAULIC CRIMPER HEADS 12-15T (MADE IN JAPAN)



MODEL NO. EP SERIES

Remote heads allow fast crimping action and allow remote operation manoeuvrability into tight areas such as switch board or panel where a hand crimper or even battery tool may not be able to reach. These remote heads require an external hydraulic pump for operation. These tools were designed for applying compression fitting to copper, aluminium, and ACSR cables or conductor.



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 191-194 for 12T crimp die details / Refer page 91-92 for hydraulic pumps details

15 TONNE CRIMP DIES

MODEL NO. 15T SERIES

15 tonne dies are manufactured in Australia from high tensile steel billets and heat treated to maximise strength and durability. These dies suit the Izumi 15T tools.



15 Tonne Hex Die-Set Suits Rec-3610				
Model No.	mm 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 5 TONNE SERIES 111 (TO SUIT SLV-50M INLINE CRIMPER)

Model No.	Dimensions Of Hex Die (mm)		Style	Application
	A/F	Crimp Length		
Copper				
5T-111-5763CU/1	5.7	12	2	10 mm² Cu (Lugs & Links)
	6.3			16 mm² Cu (Lugs & Links)
5T-111-7792CU/1	7.7	12	2	25 mm² Cu (Lugs & Links)
	9.2			35 mm² Cu (Lugs & Links)
5T-111-104115CU/1	10.4	9	2	50 mm² Cu (Lugs & Links)
	11.5			70 mm² Cu (Lugs & Links)
5T-111-142CU/1	14.2	6	1	95 mm² Cu (Lugs & Links)
5T-111-165CU/1	16.5	6	1	120 mm² Cu (Lugs & Links)
5T-111-148CU/1	14.8	6	1	19/2.00 OH
5T-111-183CU/1	18.3	5	1	150 mm² Cu (Lugs & Links)
5T-111-200CU/1	20.0	5	1	185 mm² Cu (Lugs & Links)
Aluminium				
5T-111-140173AL/1	14.0	9	2	25mm ABC
	17.3			35-70mm ABC
5T-111-180190AL/1	18.0	9	2	Full tension sleeve on 7/3.00 and 7/3.75
	19.0			Full tension sleeve on 7/4.50
5T-111-210AL/1	21.0	9	1	Non tension sleeve on 19/3.75 also 120 mm CCT
5T-111-215AL/1	21.5	9	1	95-150mm ABC
5T-111-220AL/1	22.0	9	1	Full tension sleeve on 19/3.75
Each die has dual markings cable size mm² and A/F hex. Note: Each die set consists of 2 pieces				

STYLE 1



STYLE 2



DIES 5 TONNE CEMBRE (TO SUIT SLV-261EM INLINE CRIMPER)

Model No.	A/F Dimension	Description	Tool
Aluminium			
5T-M90-50	9.00mm	9.0 AF AL	SLV-261EM
5T-M132-50	13.20mm 50-70mm ²	13.2 AF AL	SLV-261EM
5T-M140-50	14.00mm 7/2.25 UTILUX 25mm ² ABC	14.0 AF AL	SLV-261EM
5T-M173-50	17.30mm 95-120mm ²	17.3 AF AL	SLV-261EM
5T-M215-50	21.50mm 150-185mm ² UTILUX 35-70mm ² ABC	21.5 AF AL	SLV-261EM
5T-M220-50	22.00mm 19/3.25 CABAC 95-120mm ² ABC	22.0 AF AL	SLV-261EM
Copper			
5T-M63-50	6.30mm 16mm ²	6.3 AF CU	SLV-261EM
5T-M77-50	7.70mm 25mm ²	7.7 AF CU	SLV-261EM
5T-M87-50	8.70mm SPECIAL	8.7 AF CU	SLV-261EM
5T-M92-50	9.20mm 35mm ²	9.2 AF CU	SLV-261EM
5T-M96-50	9.60mm 7/2.00 & 7/2.03	9.6 AF CU	SLV-261EM
5T-M104-50	10.40mm 50mm ²	10.4 AF CU	SLV-261EM
5T-M115-50	11.50mm 70mm ²	11.5 AF CU	SLV-261EM
5T-M142-50	14.20mm 95mm ²	14.2 AF CU	SLV-261EM
5T-M148-50	14.80mm 19/2.00 O/HEAD 19/2.11	14.8 AF CU	SLV-261EM
5T-M165-50	16.50mm 120mm ²	16.5 AF CU	SLV-261EM
5T-M183-50	18.30mm 150mm ²	18.3 AF CU	SLV-261EM
5T-M190-50	19.00mm SPECIAL	19.0 AF CU	SLV-261EM
5T-M200-50	20.00mm 185mm ²	20.0 AF CU	SLV-261EM
Cutting Die			
5T-MB52-50	10.00mm CUT	STAY WIRE CUTTING DIE 10.0mm O.D.	SLV-261EM



6 TON ROUND DIES

SUITS KLAUKE EK425, IZUMI SLV-ND, SLV-60EM
DOES NOT SUIT IZUMI 5 TONNE TOOLS

COPPER

Model No.	Dimensions Of Hex Die (mm)		Conductor Details (mm ²)
	A/F	Crimp Length	
6T-6.3AFCU	6.3	6.0	16
6T-7.7AFCU	7.7	10.0	25
6T-9.2AFCU	9.2	10.0	35
6T-10.4AFCU	10.4	9.0	50
6T-11.5AFCU	11.5	9.0	70
6T-14.2AFCU	14.2	6.0	95
6T-16.5AFCU	16.5	6.0	120
6T-18.3AFCU	18.3	5.0	150
6T-20.0AFCU	20.0	5.0	185
6T-23.1AFCU	23.1	5.0	240
6T-CUSET240	COPPER DIE SET		INCLUDES ALL DIES ABOVE

ALUMINIUM

Model No.	Dimensions Of Hex Die (mm)		Conductor Details (mm ²)
	A/F	Crimp Length	
6T-9.0AFAL	9.0	12.0	10-35
6T-13.2AFAL	13.2	12.0	50-70
6T-22.0AFAL	22.0	9.0	150-185

ABC - PRE-INSULATED SLEEVES


Model No.	Dimensions Of Hex Die (mm)		Conductor Details (mm ²)
	A/F	Crimp Length	
6T-14.0AFALABC	14.0	9.0	25
6T-17.3AFALABC	17.3	9.0	35-70
6T-21.5AFALABC	21.5	9.0	95-150



6T-CUSET240

DIES ALUMINIUM 12 TONNE

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

Model No.	Hex A/F	Length Of Crimp Face	Conductor Details	
Aluminium				
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
70mm²	12T-12NEST	12T-INDENT14	12T-14NEST	12T-INDENT14
95mm²	12T-12NEST	12T-INDENT15	12T-14NEST	12T-INDENT15
120mm²	12T-12NEST	12T-INDENT16	12T-14NEST	12T-INDENT16
150mm²	12T-12NEST	12T-INDENT17	12T-15NEST	12T-INDENT17
185mm²	12T-12NEST	12T-INDENT18	12T-15NEST	12T-INDENT18
240mm²	12T-12NEST	12T-INDENT19	12T-15NEST	12T-INDENT19
300mm²	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			16mm (5/8”) 17.5mm 16mm (5/8”)

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



STEEL STORAGE BOX WITH FOAM INSERT
(15 DIE CAPACITY)
MODEL No. **12T-METAL-BOX**



PLASTIC STORAGE BOX ALSO AVAILABLE
(18 DIE CAPACITY)
MODEL No. **12T-BOX**



DIES ALUMINIUM & SETS 12 TONNE

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

Model No.	Hex A/F	Length Of Crimp Face	Conductor Details
Copper			
12T-4.4AFCU	4.4 mm	6.35 mm	6 mm2
12T-5.7AFCU	5.7 mm	6.35 mm	10 mm2
12T-6.3AFCU	6.3 mm	17.5 mm	16 mm2 *
12T-7.7AFCU	7.7 mm	17.5 mm	25 mm2 *
12T-9.2AFCU	9.2 mm	17.5 mm	35 mm2 *
12T-10.4AFCU	10.4 mm	17.5 mm	50 mm2 *
12T-11.5AFCU	11.5 mm	17.5 mm	70 mm2 *
12T-14.2AFCU	14.2 mm	17.5 mm	95 mm2 *
12T-16.5AFCU	16.5 mm	14.0 mm	120 mm2 *
12T-18.3AFCU	18.3 mm	14.0 mm	150 mm2 *
12T-20.0AFCU	20.0 mm	14.0 mm	185 mm2 *
12T-23.1AFCU	23.1 mm	10.0 mm	240 mm2 *
12T-26.0AFCU	26.0 mm	10.0 mm	300 mm2 *
12T-28.1AFCU	28.1 mm	8.0 mm	400 mm2 **
Overhead			
12T-8.3AFCU	8.3 mm	9.0 mm	7/1.63 & 7/1.70
12T-9.6AFCU	9.6 mm	9.0 mm	7/2.00 & 7/2.03
12T-11.5AFCU	11.5 mm	9.0 mm	7/2.62
12T-13.0AFCU	13.0 mm	17.5 mm	37/.064 19/2.11
12T-14.8AFCU	14.8 mm	9.0 mm	19/2.0 & 19/2.11
12T-19.3AFCU	19.3 mm	14.0 mm	19/2.57
Copper Screen			
12T-12.7AFCU	12.7 mm	14.0 mm	185mm2 TRIPLEX
12T-7.5AFCU	7.5 mm	16.0 mm	35mm2 TRIPLEX
Specials			
12T-8.7AFCU	8.7 mm	17.5 mm	SPECIAL



STEEL STORAGE BOX WITH FOAM INSERT

(15 DIE CAPACITY)

MODEL No. **12T-METAL-BOX**



PLASTIC STORAGE BOX ALSO AVAILABLE

(18 DIE CAPACITY)

MODEL No. **12T-BOX**

DIE SETS 12 TONNE

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

Individual Die Ordering Codes	Copper												Aluminium					
	12T-6.3AFCU	12T-7.7AFCU	12T-9.2AFCU	12T-10.4AFCU	12T-11.5AFCU	12T-14.2AFCU	12T-16.5AFCU	12T-18.3AFCU	12T-20.0AFCU	12T-23.1AFCU	12T-26.0AFCU	12T-28.1AFCU	12T-9.0AFAL	12T-13.2AFAL	12T-17.3AFAL	12T-21.0AFAL	12T-22.0AFAL	12T-28.4AFAL
Hex A/F (mm)	6.3	7.7	9.2	10.4	11.5	14.2	16.5	18.3	20	23.1	26	28.1	9	13.2	17.3	21	22	28.4
Length Of Crimp Face (mm)	17.5	17.5	17.5	17.5	17.5	17.5	14	14	14	10	10	8	22	22	22	18	18	18
Conductor Details (mm2)	16	25	35	50	70	95	120	150	185	240	300	400	6-35	50-70	95-120	150-185 UTILUX	150-185 CABAC	240-300
Die Set Ordering Codes	Case	Pcs	Below are the individual dies included in the given Die Set, indicated with a ✓															
12T-CUSET-MB	Metal	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
12T-CUSET	Plastic	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
12T-CUSET-MB400HB	Metal	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
12T-CUSET400	Plastic	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
12T-ALCUSET-MB	Metal	18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12T-ALSET	Plastic	6												✓	✓	✓	✓	✓
12T-ALSET-MB	Metal	6												✓	✓	✓	✓	✓

MODEL No. 12T- SERIES COPPER "C" CONNECTOR DIES

Die sets are for Copper "C" Connectors which are "C" shaped copper sections for terminating main and tap copper conductors. Our dies are made to the same specifications as Burndy, Cabac and Dulmison/PLP (Preformed Line Products). We also supply a range of Utilux die sets for copper conductor terminations.

SF Model No	Equivalent to		
	Burndy	Cabac	Dulmison/PLP
12T-U1011	U1011	HT130-C1011	-
12T-U997	U997	HT130-C997	-
12T-UC	UC	HT130-CC	-
12T-UO & 12T-DU1315	UO	HT130-CO	DU1315

"AUSTRALIAN MADE"



Cutting dies manufactured in Australia from high tensile steel billets and heat treated to maximise strength and durability.



12T-U1011



12T-U997



12T-UC



12T-UO & 12T-DU1315

DIES FOR "YGHC" STYLE EARTHING CONNECTORS

CAT NO.	COPPER CONDUCTOR RANGE		SF Model No	IMAGE
	TAP mm2	RUN mm2		
YGHC2C2	10~35	10~35	U-C	
YGHC26C2	50~70	16~35	U-O	
YGHC26C26	50~70	50~70	U-O	
YGHC29C26	95~150	16~70	U-997	
YGHC29C29	95~150	95~120	U-997	
YGHC34C26	150~240	10~70	U-1011	
YGHC34C29	150~240	95~120	U-1011	
YGHC34C34	150~240	150~240	U-1011	

DIES FOR "YGHR" STYLE EARTHING CONNECTORS

CAT NO.	COPPER CONDUCTOR RANGE		SF Model No	IMAGE
	TAP mm2	RUN mm2		
YGHR2612	10~35	10~35	U-C	
YGHR26C58	50~70	16~35	U-O	
YGHR26C34	50~70	50~70	U-O	
YGHR26C100	95~150	16~35	U-997	
YGHR29C12	95~150	50~70	U-997	
YGHR29C58	95~150	95~150	U-997	
YGHC34C29	150~240	95~120	U-1011	
YGHC34C34	150~240	150~240	U-1011	

DIES FOR "YGHP" STYLE EARTHING CONNECTORS

CAT NO.	COPPER CONDUCTOR RANGE		SF Model No	IMAGE
	TAP mm2	RUN mm2		
YGHP2C2	10~35	10~35	U-O	
YGHP29C2				
YGHP29C26	15~120 (13-15mm ROD)	50~70	U-997	
YGHP29C29		95~120	U-997	
YGHP34C2				
YGHP34C26	150~240	50~70	U-998	
YGHP34C29	(16-19mm ROD)	95~120	U-998	
YGHP34C34		150~240	U-1011	

MODEL No. 12T-CUTTING DIE (MADE IN AUSTRALIA)



CAN BE USED IN

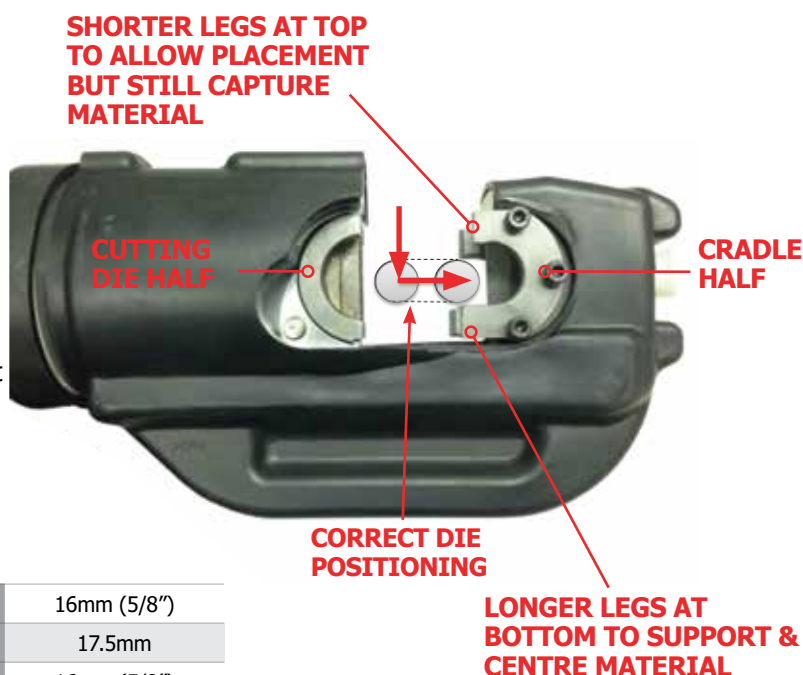
- 12 Tonne Hand Hydraulic Crimping Tools
- 12 Tonne Battery Powered Crimpers
- Remote Head Hydraulic Crimpers

BENEFITS

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

CAN CUT THE FOLLOWING MATERIALS

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



KK SERIES HEXAGONAL ROTATABLE DIE LUG HAND CRIMPER



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



MODEL NO. KK05AU

Crimp Range	6, 10, 16, 25, 35 & 50mm ²
Weight	1.35kg
Total Length	400mm



MODEL NO. KK06AU

Crimp Range	6, 10, 16, 25, 35, 50, 70, 95 & 120mm ²
Weight	3.75kg
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

IZUMI



MODEL No: EP-250H ITEMS INCLUDED

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



ALUMINUM DIES

Model No.	Hex A/F (mm)	Width Of Crimp Face (mm)	Conductor Details
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 pages 81-82 for hydraulic coupling configurations and hoses, supplied standard with screw type female 3050-3 coupling
- Battery or Electric pumps, refer pages 90-91

MODEL No. H450 (MADE IN GERMANY)

DETAILS

This lightweight head is for for crimping larger overhead joints, terminations and underground lugs or connectors. Made in Germany, includes Cejn 115 Series quick disconnect male coupler and 10-115-4101 metal dust cap. Supplied without carry case and leather die locating pin strap (not a carry handle).

SPECIFICATIONS

MODEL No.	H450
Force at die face	45 Tonne (450kN)
Dimensions (mm)	285 L x 115 Ø
Capacity (mm 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 pages 90-91



PORTABLE CAPSTAN WINCHES

Portable Winch Co. offers portable tools for lifting and pulling loads. All of their products are designed to perform complex or strenuous tasks in a simple manner. Their wide product range is used around the world in diverse applications such as farming, forestry, hunting, construction, telecommunication and infrastructure. Portable Winch design winches incorporating exclusive features and technology enabling great autonomy while being inherently safe to use. Therefore they are portable, compact, simple and easy to use.



SECTORS AND APPLICATIONS

- Telecommunication infrastructures, towers and antennae
- Power utility infrastructures, pylons, poles and transmission lines
- Lifting transformers and isolators
- Fibre optic installation and cable pulling
- Search and rescue operations
- Agriculture and forestry
- Construction
- Mining, oil & gas
- Railway cable pulling
- Marine applications, such as pulling nets, boats or docks
- Scientific research
- Adventure and exploration
- Hunting & Off-Roading

ADVANTAGES

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



PORTABLE WINCH UNIQUE FEATURES

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 either petrol-powered engine, or LI-ION Battery, no external energy source is required.
RELIABLE	Reliable Honda petrol or battery operated 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:

PCW4500, PCW3000-AU, PCW4000, PCW5000, PCW5000-HS, PCW-3000-Li-AIK,
PCH1000, PCH2000, PCT1800-50HZ-P-230V

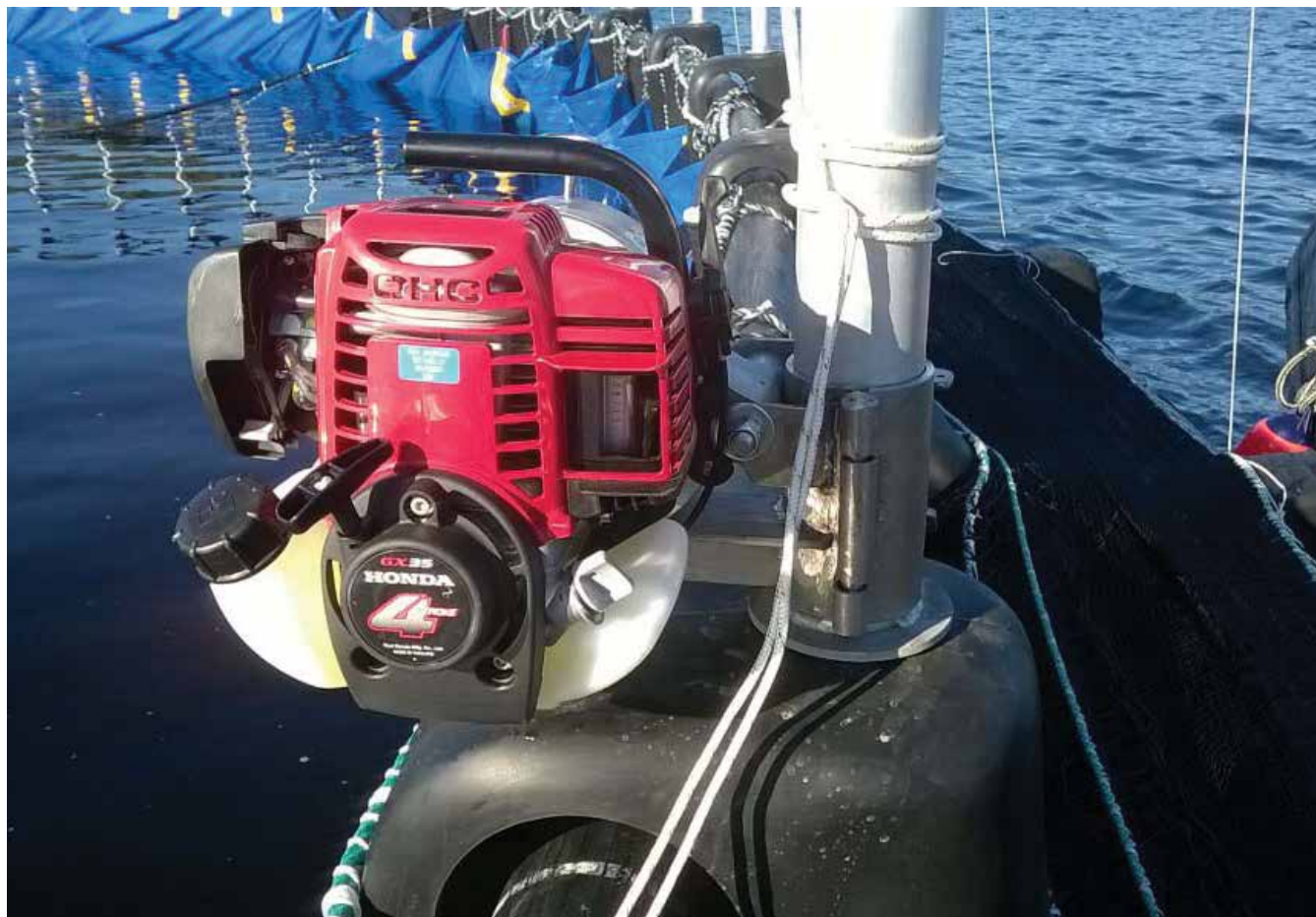
All winches are designed, manufactured and tested according to **European Standard EN 14492-1:2006 Power Driven Winches**. They also comply with **Machinery Directive 2006/42/CE** and associated standards and regulations. They also comply with **Australian Standard AS1418.2-1997: Serial hoists and winches** and **ISO standard 19472:2006 Forestry Winches**. All winches are designed under the guidelines of **ISO standard 12100:2010 Safety of machinery- General principles for design- Risk assessment and risk reduction**.

All electrical components are **CSA approved**.

Lifting winches **PCH1000, PCH2000** and **PCT1800-50HZ-P-230V** are designed, manufactured and tested according to **ASME Standard B30.7-2011 Winches (formerly titled Base-mounted drum hoists)**. Each winch is tested at the factory before shipping and test results are available upon request. Lifting winches are classified as M3 according to **ISO Standard 4301-1:2016 Crane and lifting appliance classification**.

ROPES

All ropes are manufactured according to **EN ISO 10547:2009 Polyester Fibre Ropes- Double Braid Construction**. Ropes are marked according to **EN ISO 9554:2005 Fibre Ropes- General Specifications** with a printed tape between the core and cover indicating the appropriate ISO standard, material, quality and origin. They are also labelled according to ISO 9554 and include instructions for the proper use and inspection. Additional information, including test certificates from the manufacturer and detailed inspection criteria are available upon request.



















WINCH CAPSTAN, PORTABLE OVERVIEW & FEATURES



PORTABLE CAPSTAN WINCH OVERVIEW

FEATURES

Model No.	Specifications	Inc.
 PCW4500	Max Pull (kg): 700 Max. Pulling Speed (m/min): 10 Weight (kg): 9.5 Power: Petrol 2-Stroke	1 3 4 8
 PCW-3000-AU	Max Pull (kg): 700 Max. Pulling Speed (m/min): 10 Weight (kg): 9.5 Power: Petrol 4-Stroke	4 6
 PCW4000	Max Pull (kg): 1000 Max. Pulling Speed (m/min): 13.4 Weight (kg): 12 Power: Petrol 4-Stroke	2 3 4 6
 PCW5000	Max Pull (kg): 1000 Max. Pulling Speed (m/min): 12 Weight (kg): 16 Power: Petrol 4-Stroke	4 6
 PCW5000-HS	Max Pull (kg): 500 Max. Pulling Speed (m/min): 24 Weight (kg): 16 Power: Petrol 4-Stroke	4 6
 PCW-3000-Li-AIK	Max Pull (kg): 1000 Max. Pulling Speed (m/min): 11.6 Voltage: Battery 82V 2AH Weight (kg): 9.5 Power: Battery	4 7
 PCH1000	Max Pull (kg): 775 Rated Lift Capacity (kg): 250 Max. Pulling Speed (m/min): 12 Weight (kg): 19 Power: Petrol 4-Stroke	1 3 5 6
 PCH2000	Max Pull (kg): 1150 Rated Lift Capacity (kg): 450 Max. Pulling Speed (m/min): 20 Weight (kg): 34.5 Power: Petrol 4-Stroke	1 3 5 6
 PCT1800 50HZ-P-230V	Max Pull (kg): 1000 Rated Lift Capacity (kg): 250 Max. Pulling Speed (m/min): 4.8 Voltage: 230/50 VAC / Hz Weight (kg): 16 Power: Electric	1 3 5 9

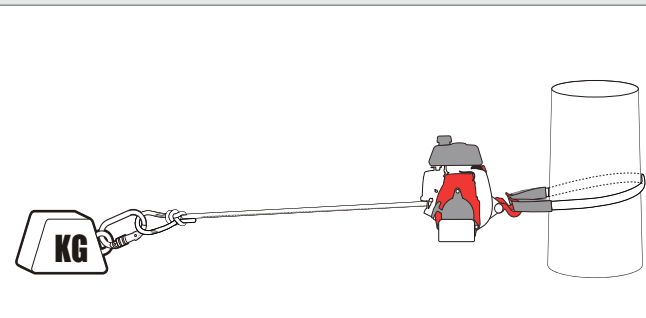
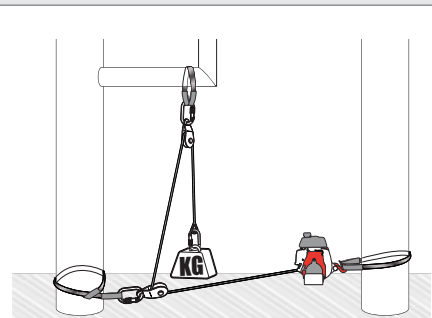
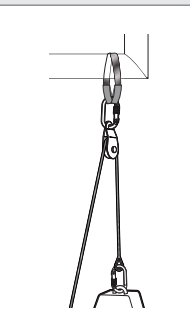
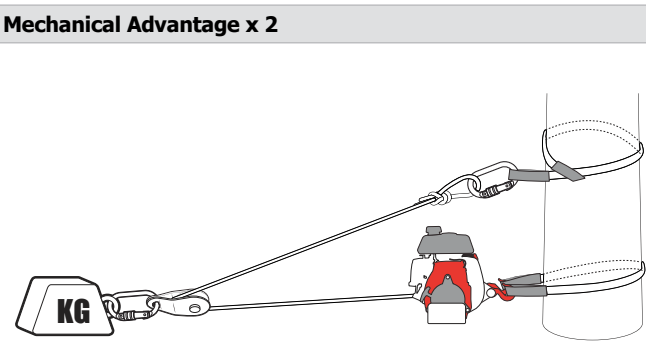
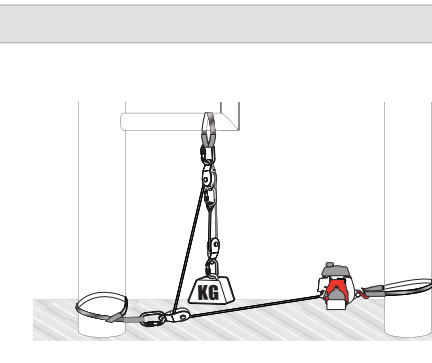
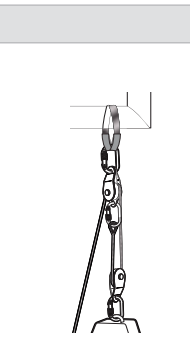
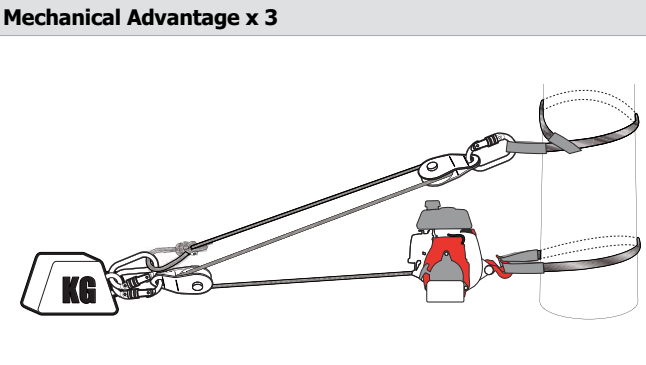
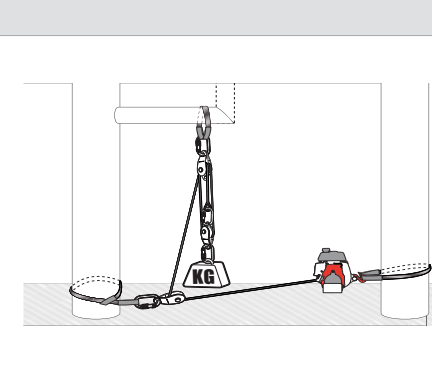
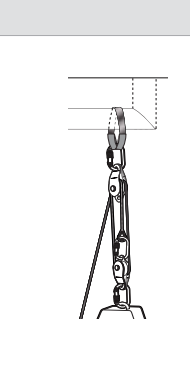
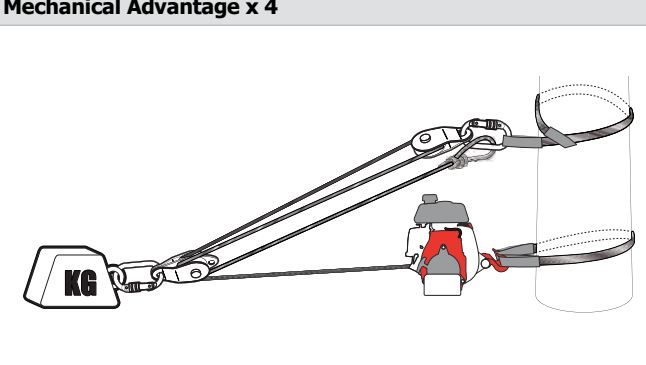
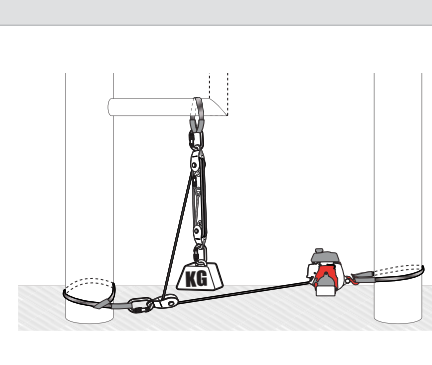
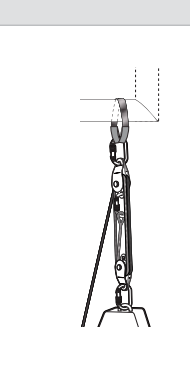
Feature No. & Descriptions
1 Progressive Capture System (PCS) Designed for lifting winches, PCS lets operators start movement with a horizontal pull. It stops and holds loads in suspension, releasing with a cord handle. If the rope slips, it grips automatically to prevent falls. 
2 Automatic Anti Roll-Back Mechanism (ARM) This feature ensures precise load control. The quick-release ARM prevents unintended descent, enhancing safety and reliability. 
3 Centrifugal Clutch – When you pull on the rope, the winch begins to pull. When you stop pulling, the drum stops turning, and the cleats hold the load. 
4 Design for Pulling
5 Design for Pulling & Lifting
6 Honda GX Series 4-Stroke Engine Commercial-grade OHC engines delivering reliable, fuel-efficient performance. Designed for continuous use in demanding applications with easy starting. 
7 Battery-Powered Capstan Winch The first battery-powered capstan winch, compatible with 82V Briggs & Stratton lithium-ion batteries. Lightweight, high-performance, and eco-friendly with a brushless motor and overload protection. 
8 Maruyama 2-Stroke Engine A durable, commercial-grade Japanese engine known for reliability, easy starting, and power. Backed by a 5-year warranty. 
9 Baldor 230V Motor Part of ABB's Baldor-Reliance® line, this efficient, reliable motor meets IEC and NEMA standards. Built for demanding industrial applications with low life cycle costs. 



PORTABLE CAPSTAN WINCH

CREATING A MECHANICAL ADVANTAGE

The use of pulleys offers a mechanical advantage by reducing the force required to move a mass. It is therefore possible to double, triple, quadruple or quintuple the capacity of a system by using pulleys. In order to generate a mechanical advantage, at least one pulley must be attached to the load. Here are some examples.

Pulling		Lifting	
Without Mechanical Advantage - Direct Line			
			
Mechanical Advantage x 2			
			
Mechanical Advantage x 3			
			
Mechanical Advantage x 4			
			

In general, each pulley must be fixed to a solid anchoring point using a carabiner and a sling while respecting the appropriate safety factor. Therefore, for each pulley, a carabiner of an appropriate capacity and a sling are required.

WINCH CAPSTAN, PORTABLE SPECIFICATIONS



PORTABLE CAPSTAN WINCH SPECIFICATIONS

Model No.	PCW4500 [§]	PCW3000-AU	PCW4000	PCW5000	PCW5000-HS	PCW-3000-Li-AIK [†]
Designed for	Pulling	Pulling	Pulling	Pulling	Pulling	Pulling
Capstan Drums						
Installed	76mm	76mm	76mm	57mm	85mm	76mm
Optional	—	—	—	85mm	57mm	—
Motor / Drive / Gear Box						
Brand	Maruyama	Honda	Honda	Honda	Honda	Portable Winch
Model	CER500W - 50cc	GX-35 cc	GX-50 cc	GXH-50 cc	GXH-50 cc	—
Type	2-stroke [§]	4-stroke	4-stroke	4-stroke	4-stroke	Brushless motor
Power	1.76 kW - 2.36 HP	1.0 kW - 1.3 HP	1.47 kW - 2.0 HP	1.6 kW - 2.1 HP	1.6 kW - 2.1 HP	1.0 kW - 82 Volts
Powered by	Unleaded gasoline [§]	Unleaded gasoline	Unleaded gasoline	Unleaded gasoline	Unleaded gasoline	Li-ion 82V battery [†]
Drive						
Centrifugal Clutch	Yes	No	Yes	No	No	No
Direct Drive (No clutch)	No	Yes	No	Yes	Yes	Yes
Drum turns with Engine						
Idling	No	Yes	No	Yes	Yes	Yes
Gear Box						
Rope Retention System	PCS*	No	ARM**	No	No	No
Gear Ratio	200:1	200:1	200:1	110:1	53:1	200:1
Housing	Aluminium alloy					
Gears	Heat treated 3 stage spur gears					
Shaft	Mounted on ball bearings					
Lubrication	Oil bath					
Brake	Anti-reversing needle bearing					
Work Cycle	Continuous	Continuous	Continuous	Continuous	Continuous	Battery Life: 70 min Approx.
Performance						
Max. Pulling Force						
57mm Drum	—	—	—	1000 kg	500 kg	—
76mm Drum	1200 kg	700 kg	1000 kg	—	—	1000 kg
85mm Drum	—	—	—	700 kg	350 kg	—
108mm Drum	—	—	—	—	—	—
Rated Lifting Capacity						
57mm Drum	Not designed for lifting					
76mm Drum	Not designed for lifting					
85mm Drum	Not designed for lifting					
108mm Drum	Not designed for lifting					
Max. Pulling Speed						
57mm Drum	—	—	—	12m/min	24m/min	—
76mm Drum	12m/min	10m/min	13.4 m/min	—	—	8.1-11.6m/min (3spd)
85mm Drum	—	—	—	18m/min	36m/min	—
108mm Drum	—	—	—	—	—	—
Rope						
Type	Low stretch double braided polyester – unlimited length – Eye splice and thimble mandatory for lifting applications					
Recommended diameter	10mm	10mm	10mm	12mm	12mm	10mm
Minimum diameter	10mm	10mm	10mm	10mm	10mm	10mm
Maximum diameter	13mm	13mm	13mm	13mm	13mm	13mm
Weight & Dimensions						
Weight (dry)	13 kg	9.5 kg	12 kg	16kg	16kg	10 kg
Dimensions (cm)	43.0L x 33.0W x 29.0H	28.9L x 35W x 26.1H	42L x 30W x 28.5H	36.2L x 37.1W x 36.1H	36.2L x 37.1W x 36.1H	31.8L x 30.2W x 31H
Other						
Certification	CE	CE	CE	CE	CE	CE & IPX6
Classification (ISO) Lifting	—	—	—	—	—	—
Anchor						
Included	Polyester sling 60mm x 2m (PCA-1260)					
Optional	Full line of accessories					
Warranty						
Private use	5 years	5 years	5 years	5 years	5 years	5 years
Commercial use	1 year	1 year	1 year	1 year	1 year	1 year
Bonus Warranty	Register your winch at www.portablewinch.com to receive 1 EXTRA YEAR of warranty for FREE!					

† – Briggs & Stratton 82V Battery 2AH (See Page 209 for Battery & Charger.) | § – 2-Stroke Motor: Requires 50:1 petrol/oil mixture.

* – PCS (Progressive Capture System) | ** – ARM (Automatic Anti Roll-Back Mechanism)



PORTABLE CAPSTAN WINCH

SPECIFICATIONS

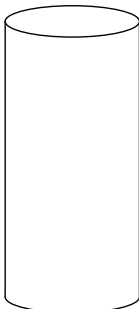

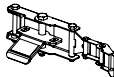
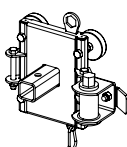
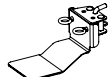
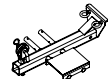
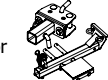



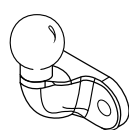

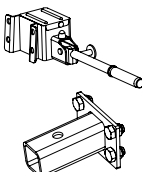
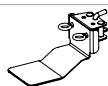

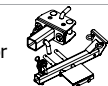
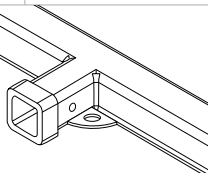
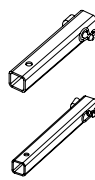
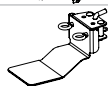
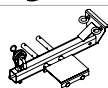
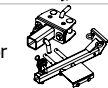
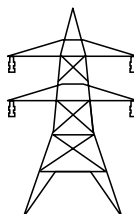
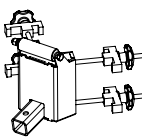
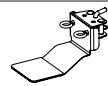
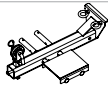
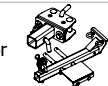


Model No.	PCH1000	PCH2000	PCT1800-50HZ-P-230V
Designed for	Pulling/Lifting	Pulling/Lifting	Pulling/Lifting
Capstan Drums			
Installed	57mm	108mm	85mm
Optional	85mm	—	57mm
Motor / Drive / Gear Box			
Brand	Honda	Honda	Baldor
Model	GXH-50 cc	GX-160 cc	AC Electric TEFC
Type	4-stroke	4-stroke	230 VAC, 1 ph - 50 Hz
Power	1.6 kW - 2.1 HP	3.6 kW - 4.8 HP	0.56 kW - 0.75 HP
Powered by	Unleaded gasoline	Unleaded gasoline	230 VAC
Drive			
Centrifugal Clutch	Yes	Yes	No
Direct Drive (No clutch)	No	No	Yes
Drum turns with Engine Idling	No	No	No (electric motor)
Gear Box			
Rope Retention System	PCS*	PCS*	PCS*
Gear Ratio	110:1	53:1	100:1
Housing	Aluminium alloy		
Gears	Heat treated 3 stage spur gears		
Shaft	Mounted on ball bearings		
Lubrication	Oil bath		
Brake	Anti-reversing needle bearing	Double one way bearing	Anti-reversing needle bearing
Work Cycle	Continuous	Continuous	25% (15 min/h to prevent motor overheating)
Performance			
Max. Pulling Force			
57mm Drum	775 kg	—	1000 kg
76mm Drum	—	—	—
85mm Drum	540 kg	—	820 kg
108mm Drum	—	1150kg	—
Rated Lifting Capacity			
57mm Drum	250 kg	—	250 kg
76mm Drum	—	—	—
85mm Drum	175 kg	—	250 kg
108mm Drum	—	450kg	—
Max. Pulling Speed			
57mm Drum	12m/min	—	4.8m/min
76mm Drum	—	—	—
85mm Drum	18m/min	—	7.2m/min
108mm Drum	—	20m/min	—
Rope			
Type	Low stretch double braided polyester – unlimited length – Eye splice and thimble mandatory for lifting applications		
Recommended diameter	12mm	12mm	12mm
Minimum diameter	12mm	12mm	12mm
Maximum diameter	13mm	13mm	13mm
Weight & Dimensions			
Weight (dry)	19 kg	34.5 kg	24 kg
Dimensions (cm)	50.5L x 37.1W x 36.1H	45.8L x 56W x 35.6H	55.6L x 36.6W x 36.6H
Other			
Certification	CE	CE	CE, UKCA, IP54
Classification (ISO) Lifting	M3	M3	M3
Anchor			
Included	Polyester sling 60mm x 2m (PCA-1260)		
Optional	Full line of accessories		
Warranty			
Private use	2 years	2 years	2 years
Commercial use	1 year	1 year	1 year
Bonus Warranty	Register your winch at www.portablewinch.com to receive 1 EXTRA YEAR of warranty for FREE!		

* – PCS (Progressive Capture System)

WINCH – CAPSTAN, PORTABLE – ACCESSORIES REFERENCE CHART



PORTABLE CAPSTAN WINCH ACCESSORIES

ANCHORING ACCESSORIES REFERENCE CHART					USE		WINCH MODELS										
ANCHOR POINTS		ANCHOR ACCESSORIES			PULLING	LIFTING	PCW4500	PCW3000	PCW4000	PCW5000	PCW5000-HS	PCW-3000-LI-AIK	PCH1000	PCH2000	PCT1800 50HZ P-220V		
	Cylindrical (tree, pole, post, etc.)	PCA-1258, PCA-1259 or PCA-1260			●		●	●	●	●	●	●	●	●	●		
		PCA-1269			●		●	●	●	●	●	●					
			PCA-1263	+ PCA-1268		●		●	●	●	●	●	●				
				+ PCA-1264			●							●	●	●	
	+ PCA-1332 + PCA-1264 or + PCA-2264*			●		●	●	●	●	●	●	●	●	●	●		
	With tow ball	48mm to 59mm diameter		PCA-1261		●		●	●	●	●	●					
			50mm diameter	PCA-1261		●		●	●	●	●	●	●				
				PCA-1266	+ PCA-1268		●		●	●	●	●	●	●			
					+ PCA-1264			●							●	●	●
					+ PCA-1332 + PCA-1264 or + PCA-2264*		●		●	●	●	●	●	●	●	●	●
				Hitch for square tube of 50.8mm (2") opening		PCA-1267 or PCA-1501	+PCA-1268		●		●	●	●	●	●		
		+ PCA-1264					●						●	●	●		
		+ PCA-1332 + PCA-1264 or + PCA-2264*				●		●	●	●	●	●	●	●	●	●	
		Pylon (with 90° "V" shaped legs)		PCA-1806	+PCA-1268		●		●	●	●	●	●				
				+ PCA-1264			●						●	●	●		
				+ PCA-1332 + PCA-1264 or + PCA-2264*		●		●	●	●	●	●	●	●	●	●	
	Floor	PCA-1805			●		●	●	●	●	●						

*PCA-2264 and PCA-1264 winch supports perform the same function, but their size and construction vary slightly, with the PCA-2264 expressly designed for vertical pulling (lifting) with the PCH2000 winch only.



PORTABLE CAPSTAN WINCH ACCESSORIES



PCA-1258
Multi-Purpose Sling



PCA-1259
Multi-Purpose Sling



PCA-1260
Multi-Purpose Sling



PCA-1261
Winch Anchor Plate



PCA-1263
Winch Anchor System



PCA-1264/PCA-2264
Winch Support



PCA-1265
Adapter for Heck-Pack
Anchoring System



PCA-1266
Heck-Pack Anchoring
System



PCA-1267
Square Tube with Bent
Hitch Pin



PCA-1268
Winch Support Plate with
Bent Hitch Pin



PCA-1269
Winch Anchor System



PCA-1332
Pivoting Anchor



PCA-1805
Floor Mount Winch Anchor



PCA-1806
Pylon Mount Winch Anchor

Model No.	Description	Material	Length (cm)	Width (cm)	Weight (kg)	WLL (kg)
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	20	15	0.7	
PCA-1263	For trees and poles with 3 m (10') strap. Use with PCA-1264 or PCA-1268.	Powder Coated Steel	37	26	7.2	-
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	55	41	10.6	-
PCA-2264	PCA-2264 and PCA-1264 winch supports perform the same function, but their size and construction vary slightly, with the PCA-2264 expressly designed for vertical pulling (lifting) with the PCH2000 winch only.	Powder Coated Steel	57	41	10.6	-
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	2.1	-
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-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

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	7
PCA-1213M2ESC	12	100	3300	50 x 50 x 20	11
PCA-1214M2ESC	12	150	3300	50 x 50 x 30	18
PCA-1216M2ESC	12	200	3300	50 x 50 x 35	22
PCA-1218M2ESC	12	300	3300	50 x 50 x 50	33

NOTE: All ropes include soft eye splices on each end. UTS = Ultimate Tensile Strength. Suggested safety factors (check local standards or guidelines): Pulling 3:1 / Lifting 5:1.

PORTABLE CAPSTAN WINCH – PULLEYS



PCA-1270

Open face corner block



PCA-1273

Double Swing Side Pulley



PCA-1274

Single Swing Side Pulley



PCA-1275

Single Swing Side Pulley

Model No.	Feature	Material	WLL (kg)	Sheave Diam. (mm)	Length (cm)	Width (cm)	Height (cm)	Weight (kg)	Rope (mm) Min / Max	Cert.	Min Break Strength (kg)
PCA-1270	-	Steel	N/A	100	25	10	5.8	2.4	6 / 12	-	N/A
PCA-1273	Two lightweight 100mm diameter deep groove aluminium sheaves.	Sides: Stainless steel. Sheave: Aluminium	4486	100	23	10.5	8	1.85	10 / 12	-	13775
PCA-1274	-	Aluminium	2243	100	19.6	10.5	5.3	1.1	10 / 12	-	9185
PCA-1275	-	Aluminium	1632	76	15	8	3	0.6	10	-	6125

SPARE PARTS



PCA-1110

Capstan Drum 57mm



PCA-1100

Capstan Drum 85mm



PCA-1120

Capstan Drum 76mm



PCA-1130

Capstan Drum 108mm



PCA-1151, PCA-1152

Spark Arrestor



10-0044

Reversible Safety Lip

Model No.	Feature	Material	Diam. / Hole Diam. (mm)	Weight (kg)
PCA-1100	C/W rope guide and screws.	Aluminium	85 / 25.4	0.75
PCA-1110			57 / 25.4	0.35
PCA-1120			76 / 24.8	0.55
PCA-1130			108 / 24.8	0.75
PCA-1151	For Honda GXH-50 engine.	Aluminium	22 Ø	0.085
PCA-1152	For Gx160 engine		22 Ø	0.12
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 – CARRYING EQUIPMENT

Introducing the New Hard Transport Case Model No. **PCA-0107** Built to endure tough conditions. Compatible with winches: **PCW3000-Li, PCW3000, & PCW4000.**

FEATURES

- Grooves for smooth installation of bungee cords or straps, ensuring your winch stays secure during transport
- Perforation points in the case allowing ventilation for gasoline models and preventing condensation from occurring.
- Fitting more than just the winch you can store all your essential accessories as well.
- Clippable hands to lock the cover on with ample space under the handle to carry with gloves on
- Opens to a full 180°, providing stability and eliminating the risk of damage.



CASES



PCA-0100



PCA-0102



PCA-0104



PCA-1630



PCA-0340



PCA-0350



PCA-0107

Model No.	Description	Material	Length (cm)	Width (cm)	Height (cm)	Weight (kg)
PCA-0100	Purpose built transport case with moulded locations for the winch and accessories. Suits Models PCW5000 & PCW5000-HS.	High-Impact Plastic	64	55	38	6.65
PCA-0102	Purpose built transport case with moulded locations for the PCW3000. Fits moulded Backpack PCA-0104.	High-Impact Plastic	47	33	31	3.9
PCA-0104	Moulded Backpack for Transport Case PCA-0102 and Rope Bag PCA-0103 or XXL Extra Large Transport Bag PCA-0105	Polymer	52	46	10	1.4
PCA-1630	Waterproof and airtight case with removable casters and folding top handle for PCT1800 or PCH2000 winches and accessories.	Polymer	79	63	44	15.7
PCA-0340	Waterproof and airtight case with casters and retractable top handle for PCW5000, PCW5000-HS & PCH1000 winches and accessories.	Polymer	58	58	56	14.8
PCA-0350	Waterproof and airtight case with folding side handles ideal for PCT1800-50HZ-P-230V and also suitable for PCW-5000, PCW-5000-HS & PCH-1000 winches and accessories.	Polymer	59	56	44	11.3
PCA-0107	The new hard transport case for most portable winch Pro-series models; PCW3000, PCW3000-Li, and PCW4000. Ingeniously designed to hold not just the winch but several accessories, making it more practical for you.	Polymer	58	41	36	3.0

ROPE BAGS



PCA-1255



PCA-1256



PCA-1257XL

Model No.	Feature	Material	Diameter (cm)	Height (cm)	Weight (kg)
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	28	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	30	64	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	60	1.1



PORTABLE CAPSTAN WINCH OTHER ACCESSORIES



1760426
Briggs & Stratton
82V 2Ah Li Battery



1760428
Briggs & Stratton
230V Charger



PCA-1290
Skidding Cone
for Logs



PCA-1291
Automatic Release
for Open Face
Corner Blocks



PCA-1295
Choker Chain with
C-Hook & Steel Pin



PCA-1310
Pulling Plate for
Vehicles



PCA-1372
HPPE Rope Choker
with Steel Pin

Model No.	Feature	Material	Length	Diameter	Width	Height	Weight	Minimum Breaking Strength (UTS)
1760426	60min Charge Time	High-resistance polymer plastic	21.5cm	-	12cm	8.5cm	2.6kg	-
1760428	Charges 2Ah 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-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	5700kg	-	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	5700kg	-	10cm	7.5cm	1.5cm	0.34kg	-	-
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 CAPSTAN WINCH – KITS

PCW-3000-LI-AIK(C) BATTERY WINCH KIT



INCLUDES

- 1 x PCW-3000-Li-AIK Portable Winch
- 1 x Briggs & Stratton 82V-2Ah Li Battery & 230V Rapid Charger
- 1 x PCA-0107 Hard Case
- 1 x Stainless Steel Pulley Block
- 2 x Carabiners
- 2 x Slings
- 50m x 10mm Double Braided Rope

Customer can also purchase the following options:

1. PCW-300-Li-AIK(CC): Winch kit with 2 batteries and charger
2. PCW-3000-Li-AIK: Winch kit without batteries and charger

PCW-3000HK PETROL WINCH KIT



INCLUDES

- 1 x PCW3000 Portable Winch
- 1 x Transport Case
- 1 x Backpack
- 1 x 1.8m Sling
- 1 x Snatch Block
- 2 x Oval Carabiners
- 50m x 10mm Double Braided Rope
- Rope Bag

PORTABLE WINCH-PETROL/DIESEL

GOODWINCH



Rope clutches supplied loose with units, to order petrol unit without clutch use Model No. GOODWINCH-1

FEATURES

- Safe, infinitely controllable pulling, holding, and lowering with the Goodwinch Portable Petrol or Diesel Twin Capstan Winch.
- Variable speed from hold, through creep to a full speed of approx. 25 metres per minute.
- Ideal for pulling cables through ducts, raising portable buildings, clearing debris from rivers, lakes and canals, forestry work, and general rope rescue work, etc.
- Work from either side or run two ropes together to halve the load.
- Two rope clutches (not shown) are included as standard on both models and are used for load holding during lowering or raising loads on transmission towers and similar structures.
- High quality engineering and design. Reliable, easy to start Honda (4 kW) engine (or Yanmar (3.5 kW) diesel engine) with a centrifugal gearbox driving the main capstan gearbox and aluminium bollards through a flexible coupling.
- Aluminium frame, two man lift, removable handles for easy storage.

Model No.	GOODWINCH	GOODWINCH-DIESEL
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	14.3mm (9/16") double braided poly.	14.3mm (9/16") double braided poly.
Suitable Rope Length	As required, no maximum	As required, no maximum
DIMENSIONS	Honda Petrol Engine	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.

OPTIONAL EXTRAS

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



GREENLEE EQUIPMENT -
TRUSTED SINCE 1862

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

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

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

ELECTRIC CABLE PULLERS (CONTINUED)



Model No.			31466	00812	00814	00813	MVB
Pulling Force (kN)		Max	28.9	35.6/44.5 ¹			-
		Continuous	20.0	28.9			-
Pulling Speed		Load / Metres per Minute	None/5.0	None/4.9			-
			8.8/3.4	8.9/4.3			-
			17.9/2.3	17.8/3.6			-
			26.7/1.8	26.7/2.1			-
			-	35.6/1.83			-
Drive Motor (kW)			1.1	1.1			-
Rope*(mm OD/kN)			19.1/115.6	22.2/142.0			-
Dimensions - Main Motor Unit (mm)		Length	527	813			1194
		Width	572	305			1067
		Height	305	305			1219
Tugger Weight (kg)			49	49			146
-	-	Force Gauge	✓	✓	✓	✓	
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**



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

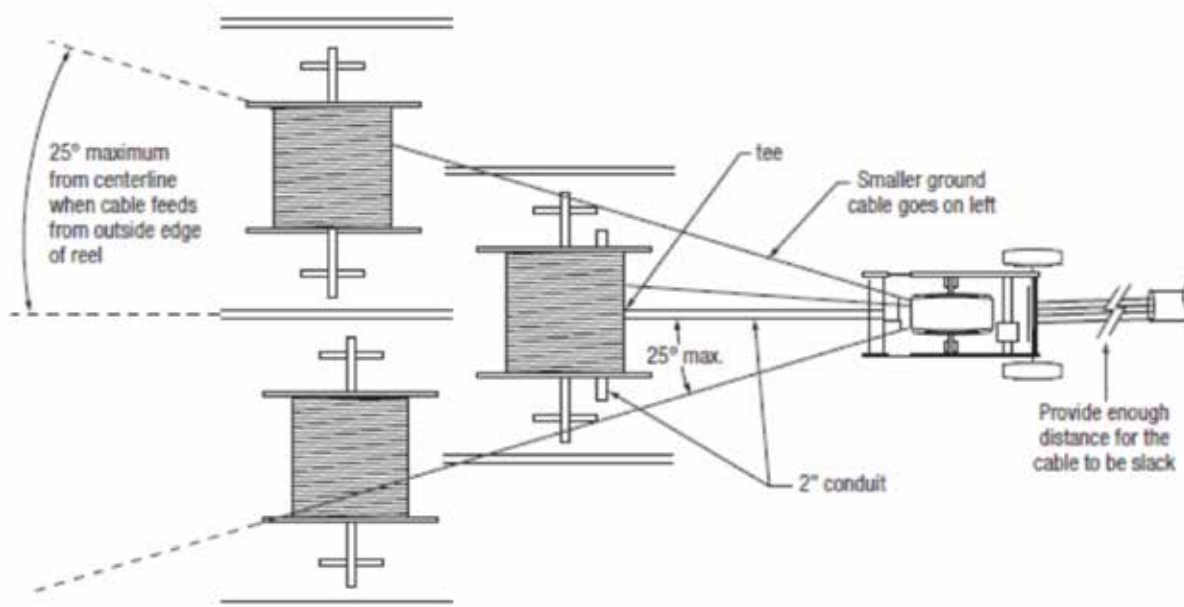
Model No.	12293
Reel Weight Capacity (kg)	11,300
Power Supply (VAC)	230
Size (mm)	1040 x 699 x 953
Weight (kg)	130

ACCESSORIES

Foot switch available

Model No.	24821
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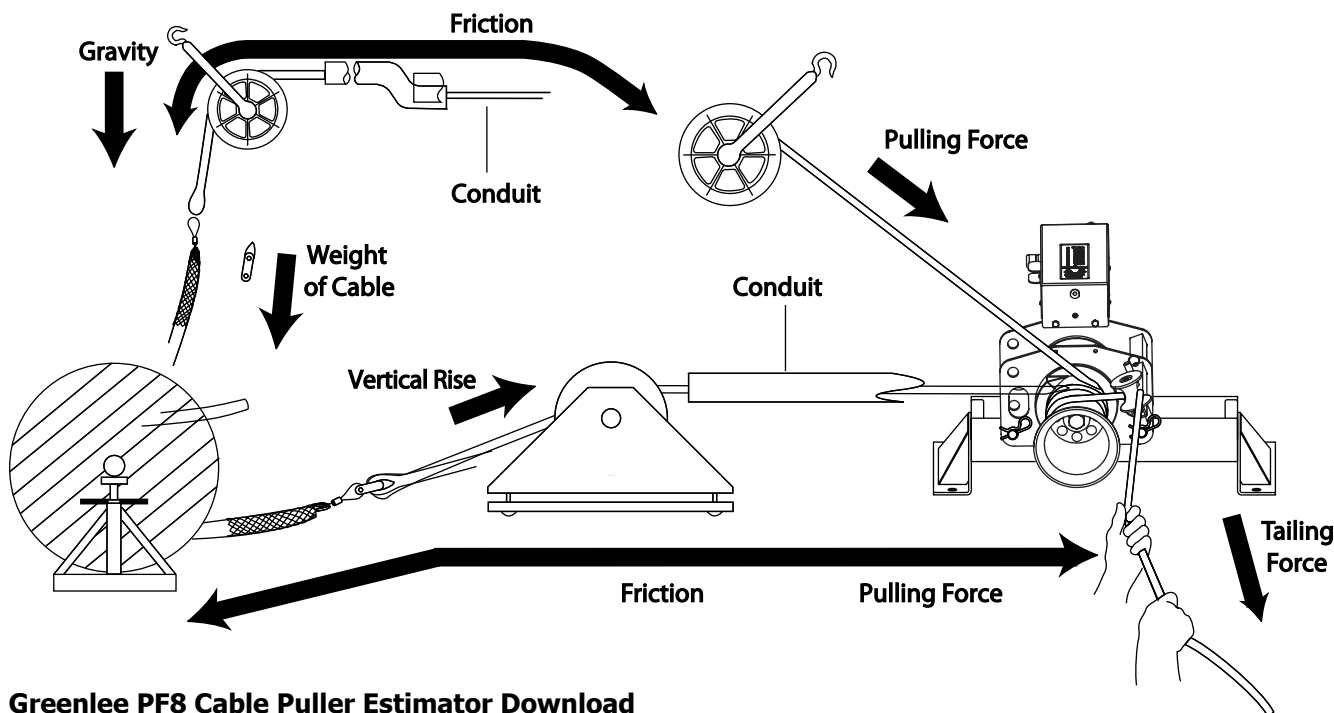
EXAMPLE OF APPLICATION



SCAN
& PLAY



CABLE PULLING THEORY (FREE ESTIMATOR & ONLINE TRAINING)



Greenlee PF8 Cable Puller Estimator Download

To give an approximation of the pull force that will be required to install electrical cable into a conduit, there are many unknown factors involved that prohibit giving exact results. Most notable amongst these is the coefficient of friction, occupancy of conduits (existing cables), lubrication, surface texture, and lay of the cable are never uniform along the length of a conduit run.

Comparing the known forces of pulls against the estimated force can give you a guide as to a good coefficient of friction to use for similar future pulls. In lieu of this, the Greenlee suggest some starting points for coefficient of friction of well-lubricated cable.

Typically known as a "leg", is a straight run of conduit followed by a bend, except for the last Leg, which would typically have no bend. Obviously there can be numerous bends in the run. If the leg changes elevation, there are substantial effect multipliers for vertical rise or descent. The total cable weight and a coefficient of friction are required. If there is a known drag on the cable before it enters the conduit, that force can be entered in and the estimated pull force can be displayed.

**SCAN
HERE FOR
MORE**



Greenlee University – Training & Productivity Solutions

Greenlee University offers informative and thorough "free" online training for a range of their products including;
Cable Pulling Products: Overview & Safety; Set-Up Puller Assembly and Uses
Productivity Solutions: Conduit Bending; Holemaking

Greenlee University is helping their customers do their jobs Faster, Safer & Easier with training to suit their needs. Explore upcoming "Webinars" and "On Demand Training" for opportunities on their website.

VISIT www.greenlee.com/resources/

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.

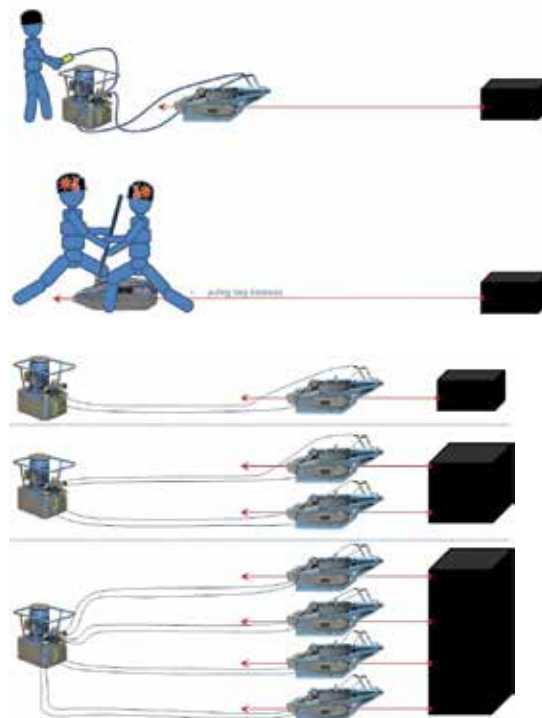
CAPACITY

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			Dimensions of Power Pack (mm)
						Conf1	Conf2	Conf3	Conf1	Conf2	Conf3	1 way(kg)	2 way(kg)	3 way(kg)	
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!



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.

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Over 40 years of experience in manufacture!



MORE MACHINES AVAILABLE UPON REQUEST

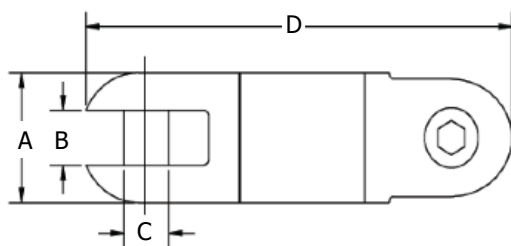
SERIES 00505 UNDERGROUND LINE SWIVELS (MADE IN CANADA)



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



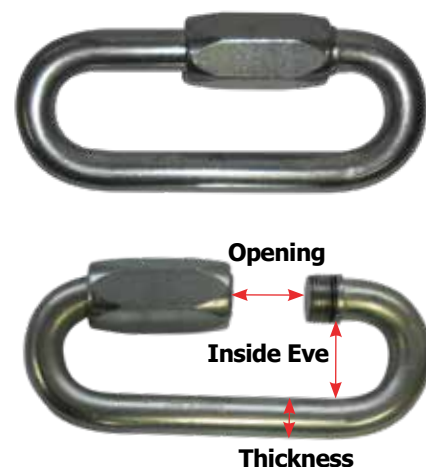
SERIES K600 QUICK LINKS (MADE IN EUROPE)

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

SWIVELS – BREAKAWAY & CONNECTORS ROPE TO ROPE

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.

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	00555-020³	8.89	BLUE
00555-0045	2.00	BLUE	00535-008	3.55	GREY	00555-027²	12.01	BLACK
00555-006	2.66	ORANGE	00535-010	4.44	RED	00555-036	16.01	YELLOW
00555-007⁴	3.00	BLACK				00555-040¹	17.79	RED

Suits Type of Cable;

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

² 95mm²-300mm², 3 Core (11kV)

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

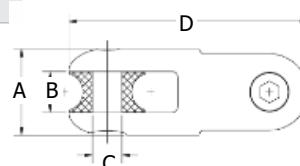
⁴ 300mm² XLPE Single Core or smaller

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)
00521-020	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
00521-040	111.2	22	61.1	25.4	22.2	157.9	2.04

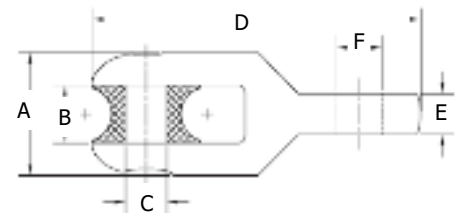
* WLL (Working Load Limit) 3:1 recommended as a guide only



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.

DCD



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

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



HIGH FORCE COMPOSITE-DOUBLE BRAIDED CABLE PULLING ROPE (MADE IN USA)

PELICAN ROPE
The Most Trusted Name in Rope™



With shock absorption properties similar to nylon and a higher tensile strength than either nylon or polyester, this rope offers even balance and excellent resistance to abrasion, sunlight and most common chemicals.

DETAILS

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



SPECIFICATIONS

Model No.	Rope Diameter	Rope Length	Average Breaking Strength*	Weight
	mm	m	kN	Kg
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

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

C SERIES – STANDAR



C1 Series ¹	C7 Series
<ul style="list-style-type: none"> • Two Ply • Galvanised Strand • Alloy Ferrule • Soft Eye 	<ul style="list-style-type: none"> • Two Ply • Stainless Steel

SOFT EYE - AL FERRULE Model No.	STAINLESS STEEL & THIMBLE Model No	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL 3:1 (kN)*
C1006	C7006	6-12	350	5	1.7
C1010	C7010	10-14	350	5	1.7
C1014	C7014	14-19	400	9	3.0
C1019	C7019	19-28	500	15	5.0
C1028	C7028	28-40	600	24	8.0
C1040	C7040	40-55	800	35	11.7
C1055	C7055	55-75	900	62	20.7
C1075	C7075	75-95	1000	98	32.7
C1095	C7095	95-120	1200	133	44.3
C1120	C7120	120-150	1400	187	62.3
C1150	C7150	150-190	1600	283	94.3

Copper ferrule C3 series available for reduced spark environments

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

HEAVY DUTY GRADED TUBULAR WEAVE

HDGW SERIES

Construction:

- Multi Ply
- Galvanised Strand
- Alloy Ferrule
- Soft Eye
- Copper Sleaving



HDGWCS
designed for
passage through
overhead
stringing rollers

HDGWCS Model No.	To fit Cable Diameter (mm)	Grip Length (mm)	Ultimate Tensile Strength (UTS kN)	WLL (kN)
HDGW08CS	8-11	700	28	9.3
HDGW10CS	10-15	750	37	12.3
HDGW15CS	15-21	810	57	19.0
HDGW20CS	20-27	1040	73	24.3
HDGW27CS	27-35	1160	101	33.6
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	NTR/NTRA Series Flat Trench Roller	RTR/RTRA Series Raised Trench Roller
Small and cost effective unit to use in flat conditions. The frame features three holes either side for mounting to walls or cable trays, etc.	A durable trench roller guide that can also be turned on its side for corner pulls. The roller is placed behind the direction of pull and is offset from centre to reduce the possibility of tipping forward during pulling operations.	This trench roller guide is designed for instances where an existing cable or conduit is in place. The roller is placed behind the direction of pull and is offset from centre to reduce the possibility of the roller tipping forward during pulling operations.

Model No.	Dimensions (mm)	Roller Type	Replace Roller Model	WLL* (kg)	Max Cable (mm OD)	Weight (kg)
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	TRGM-140-900R	TRGM-140-4A90
45° Curve	45° Curve - Large	90° Corner (Adjustable rollers, can be set on side)

Model No.	Dimensions (mm)	Angle (°)	Bend Radius (mm)	No. of Rollers	Max Cable (mm OD)	Weight (kg)
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



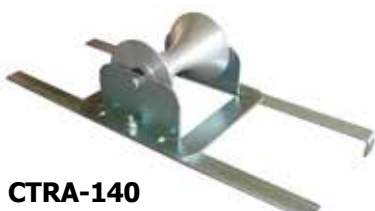
PMCG Series



PMRG Series



CABLE TRAY ROLLERS (ALL ROLLERS HAVE ROLLER BEARINGS)



CTRA-140



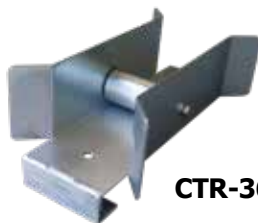
CTR-140



CTR-50



CTR-60C-5R



CTR-360



CTR500-15R

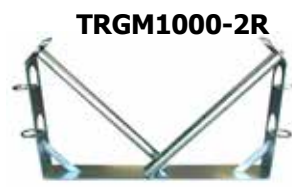
LONG FEEDING TRENCH ROLLER GUIDES



TRGM-1000



TRGM-700



TRGM1000-2R

TCR SERIES TRENCH CORNER ROLLERS



TCR60-230



TCRI60-230



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
	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

17265



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

31569



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**





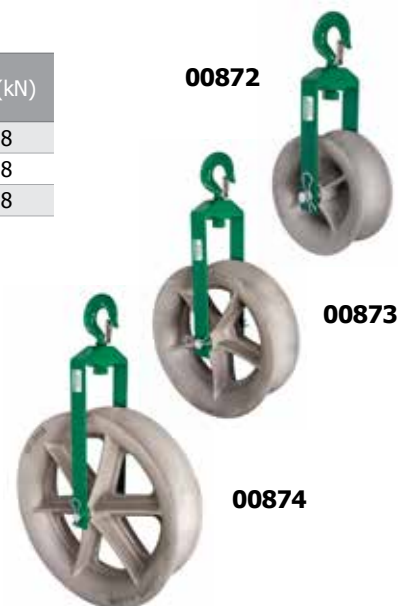
HOOK SHEAVES 35.8kN WLL (MADE IN USA)

- 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 Tesltra rope (Parramatta) on longer runs or jet line or twine on smaller runs. Made from 316 grade stainless steel with solid polyurethane cone. It requires a large compressor to operate (2.1cm³ 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.	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
Description	Female End Fitting for 5, 7, 9, 11mm Rod	Swivel Eye for 9 & 11mm Rod	Roller Guide for 5mm, 7mm & 9-11mm Rod	Male End for 5, 7, 9 & 11mm Rod	Joiner for 5, 7, 9 & 11mm Rod	Spring Leader for 5, 7, 9 & 11mm Rod	Fibreglass Leader for 9 & 11mm Rod	Replacement Rollers for FRD9/11

JOINER FIXING KITS

Repair Kit Model No.	Rod OD (mm)	Each Kit Contains	
		QTY	Description
JK-05	5	2	Joiner Sleeves
JK-07	7	1	Male End Fitting
JK-09*	9	1	Female End Fitting with Eye
		1	Fitting Instruction
JK-11*	11	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



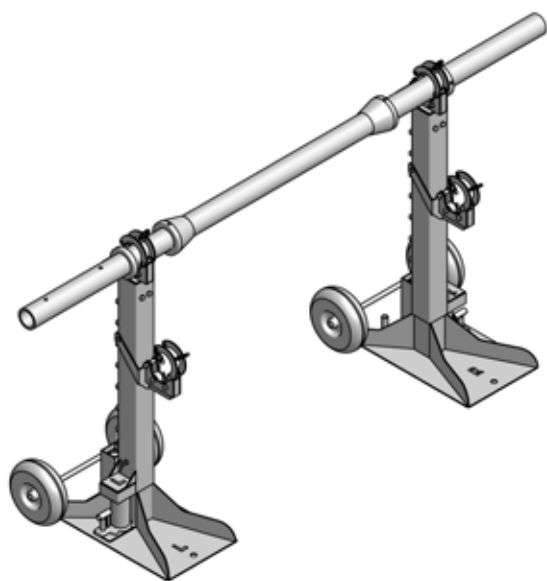
8T HYDRAULIC DRUM JACK STAND MODEL No. DJS-58T

- 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

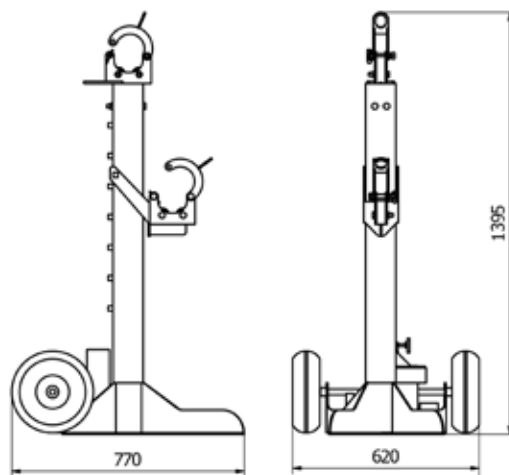
Model No.	Description	Drum Dia mm Max	Drum Width (mm)	WLL Kg
DJSC-58T	HYDRAULIC DRUM JACK STAND WITH BRAKE & FIXING ARM (SEE BELOW)	3300	1800	8000
DJS-58T	HYDRAULIC DRUM JACK STAND	3300	1800	8000

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

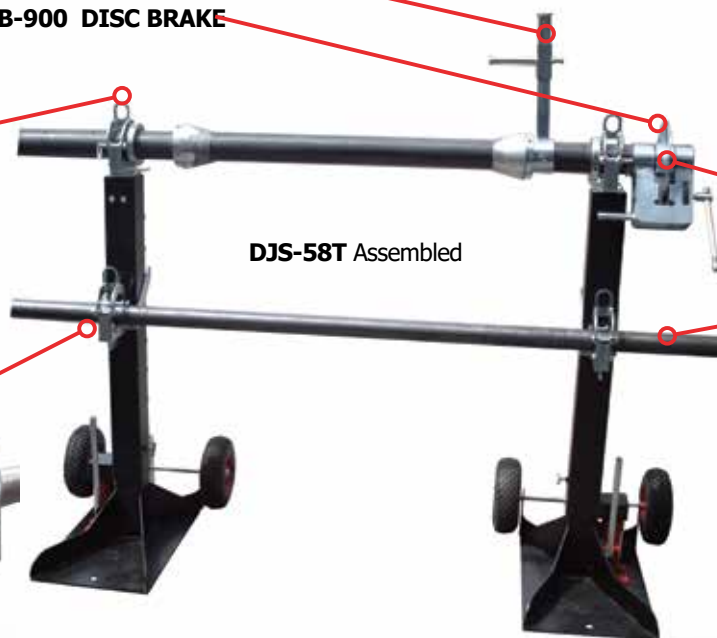
Top Roller
Assembly



Side Roller
Assembly



DFA-90 DRUM FIXING ARM
DB-900 DISC BRAKE



DJS-58T Assembled

**NOTE – Only 1 axle
supplied with unit.**

1. Axle can be
positioned on the
top holders with
8,000kg WLL.

2. Axle can also
be mounted on
the middle with
a maximum of
4,000kg WLL



DJS-58T Stands side view



DB-900 DISC BRAKE
Shown with fixing arm (Included)



DFA-90 DRUM FIXING ARM

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

PATENTED HI-TOOL GRIPS



Trolley-20



Trolley-30



Trolley-60

For Trolley Cable, Wire Rope, Bare Copper & Covered Cable, Guy Wire



Feeder-MT20



Feeder-LG30



AL-50KN-GRIP



AL-60KN-GRIP

For Feeder Cable, Bare AL, ACSR Copper Cable

SPECIFICATIONS

Model No.	Specifications						Cable/Conductor Types						Safety				
	WLL (kN)	Min (mm) Ø	Max (mm) Ø	Jaw Length (mm)	Eye Size (mm)	Weight (kg)	Trolley Cable	Wire Rope	Bare Cu & Covered	Guy Wire	Feeder Cable	Bare Al/ACSR	Copper Cable	Safety Latch	Trigger Grip	Spring Latch	Lockable
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					✓	✓	✓	✓			

WIRE GRIPS (MADE IN JAPAN)

HI-TOOL CO., LTD

STANDARD RANGE OF OVERHEAD & ELECTRICAL GRIPS



SD-S-GRIP



NEW-SD-GRIP



10KN/20KN/35KN/MIGHTY/
LARGE/AL-10KN to AL-35KN



H-MIGHTY-20KN-GRIP to
H-LARGE-30KN-GRIP



40KN-GRIP



AL-50KN-GRIP & AL-60KN-GRIP



ABC-S-GRIP



ABC-M-GRIP/ABC-L-GRIP

SPECIFICATIONS

Model No.	Specifications					Suitable For (Material Type)										Safety		Eye
	WLL (kN)	Min Cable Ø (mm)	Max Cable Ø (mm)	Jaw Length (mm)	Weight (kg)	Bare Cu Cable	Bare ACSR	Bare AAC	ABC	Covered Cable	Trolley Wire	Guy Wire	Wire Rope	Steel Rod	Barbed Wire	Safety Latch	Trigger Grip	Eye Size
For Copper Cable, Coverd Cable, Guy Wire, Wire Rope																		
NEW-SD-GRIP	10	2.6	15	*	0.6	Y				Y		Y		Y	Y	Y	Y	25x30
SD-S Grip	10	3	13	50	0,6	Y				Y		Y				Y	Y	25x30
10KN-GRIP	10	5	22	70	1.1	Y				Y	Y	Y		Y		Y	Y	26x30
20KN-GRIP	20	5	22	90	1.5	Y				Y	Y	Y		Y		Y	Y	32x42
20KN-W-GRIP	20	5	22	90	1.5	Y				Y	Y	Y	Y	Y		Y	Y	32x42
MIGHTY20-GRIP	20	5	28	120	1.9	Y				Y		Y		Y		Y	Y	32x42
LARGE20-GRIP	20	16	35	120	2.1	Y				Y				Y		Y	Y	32x42
30KN-GRIP	30	6	22	90	1.7	Y				Y	Y	Y	Y	Y		Y	Y	32x42
LARGE30-GRIP	30	18	35	120	2.4	Y				Y				Y		Y	Y	32x42
40KN-GRIP	40	8	28	140	3.5	Y				Y	Y	Y	Y	Y		Y	Twist	43x51
For Bare Aluminum, ACSR, ACSS, AAC, Copper Cable																		
AL-10KN-GRIP	10	5	22	70	1.1	Y	Y	Y								Y	Y	26x30
AL-20KN-GRIP	20	5	22	90	1.5	Y	Y	Y								Y	Y	32x42
AL-MIGHTY20-GRIP	20	5	28	120	1.9	Y	Y	Y								Y	Y	32x42
AL-LARGE20-GRIP	20	16	35	120	2.1	Y	Y	Y								Y	Y	32x42
AL-30KN-GRIP	30	6	22	90	1.7	Y	Y	Y								Y	Y	32x42
AL-LARGE30-GRIP	30	18	35	120	2.4	Y	Y	Y								Y	Y	32x42
AL-50KN-GRIP	50	18	36	180	4.7	Y	Y	Y								Y	Twist	43x51
AL-60KN-GRIP	60	28	46	220	7	Y	Y	Y								Y	Twist	60x70
For Aerial Bundled Cable (Conductor)																		
ABC-S-GRIP	3.5	4x16	4x35	80	0.6				Y							Y	Y	24x30
ABC-M-GRIP	10	4x25	4x95	160	2.4				Y							Y	Y	32x42
ABC-L-GRIP	18	4x95	4x150	180	2.6				Y							Y	Y	32x42

* Curved serrated jaw

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

WIRE GRIPS (MADE IN JAPAN)

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.

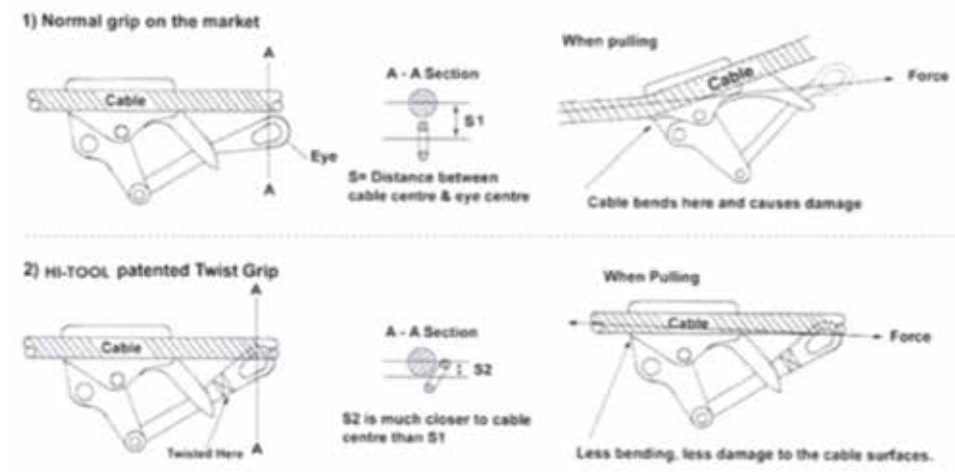
GRIP SELECTION

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)



NP-1500

NEX-1500

HI-TOOL CO., LTD

For overhead stringing and tensioning applications, not designed for lifting applications.

Handle neck will bend when unit is overloaded

Insulated Fibreglass handle for live line use with insulated stick

NEX-1500-H



SPECIFICATIONS

Model 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
The Original Ratchet Winch Hoist

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

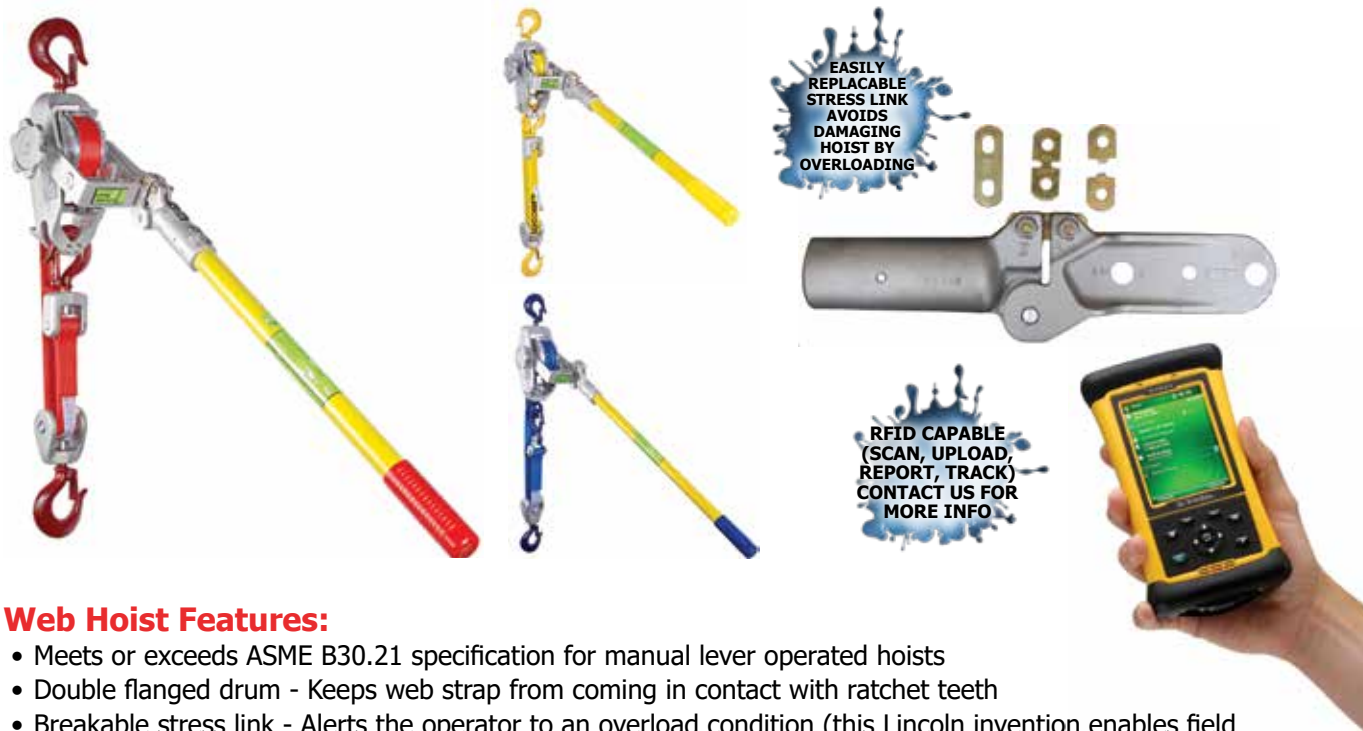
LUG-ALL® is a registered trademark of Transol Corporation



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)

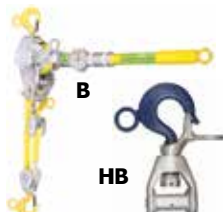
Model No.	Frame Size	Single Line			Double Line			Colour	Web Strap Length x Width (cm)	Handle Length (cm)	Hoist Weight (kg.)
		Cap. (kg)	Single Lifting Distance (cm)		Cap. (kg)	Double Lifting Distance (cm)					
			Min	Max		Min	Max				
2W10-ANZ-1000	Small	450	45.7	332.7	900	58.4	188.0	Yellow	304.8 x 3	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

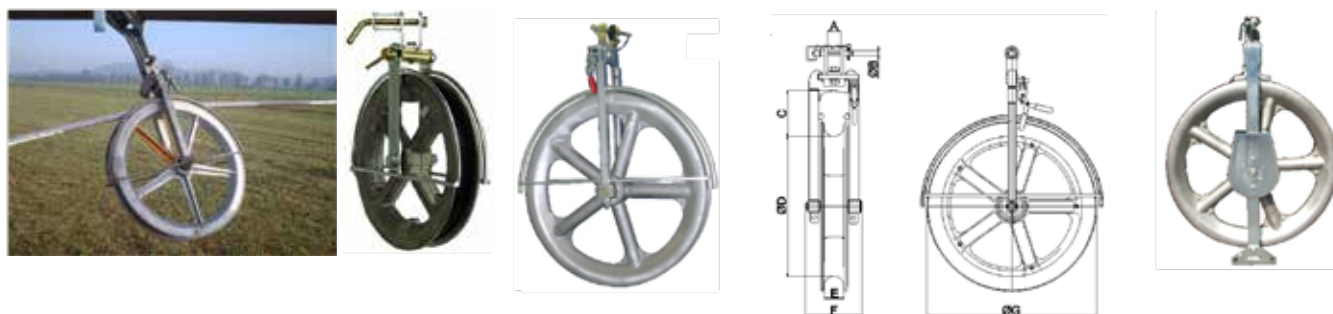
SUSPENSION ADAPTORS FOR UNIVERSAL STRINGING ROLLER

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

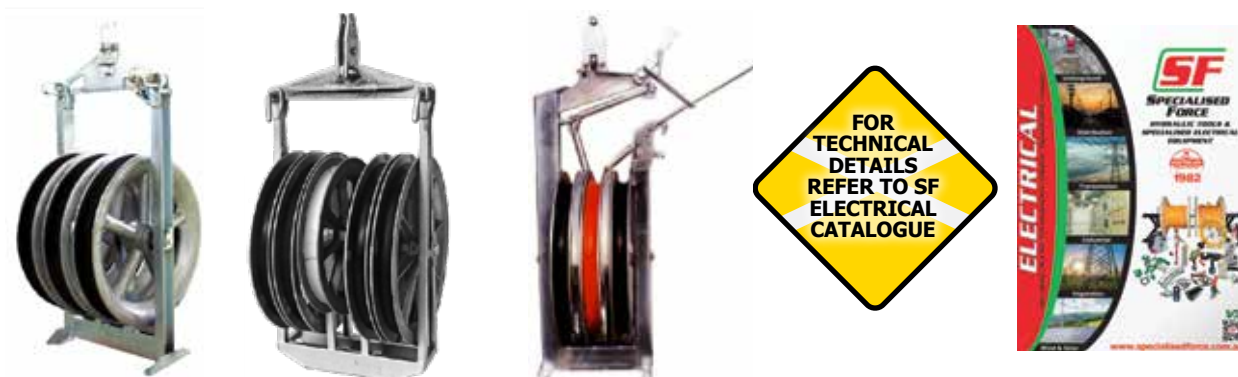
Product			
Model No.	T14	T15	T12
Description	Ball Clevis	“Y” Ball Clevis	Ball Safety Hook



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



SINGLE AND MULTIPLE HELICOPTER ROLLERS (MADE IN ITALY)



REFER PAGE 247 FOR SUSPENSION SOCKET
FITTINGS



RAILWAY SPECIFIC OVERHEAD ROLLERS (MADE IN AUSTRALIA)



CSR-010	PER-01	SCR-01	SCR-02	APB-1100
Catenary Stringing Roller, Plastic Sheave	Parallel Earth Roller with Plastic Sheave	Single Stringing Contact Roller, Metal Sheave	Double Stringing Contact Roller, Metal Sheave	Roller, Plastic Nylon Sheave 1,100kg WLL

OTHER HANGING ROLLERS



ACB145-60



ABC175-60



ABC66-28



ASCB-080



TRCG-140



CROSSARM ROLLERS



**CARR-080
CARR-140**



FCARR-100



FCARR4-100



**WCAR-100
WCAR-150**



**WCCR-100
WCCR-150**



CASB-800



FIBRE OPTIC ROLLERS



AFG90-2



AFG90-80



AVH-50



AVH-50

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	4	HF546-4	Stick Ext 1.2m
4142	-	HF546-6	Stick Ext 1.8m
	1	HF4125	Cutter Head
	1	HFA18007	Stick Base Cap
	1	HFA10012	Adaptor Universal Head
	1	HFP10046	Universal "S" Hook
	1	HFA11000	Saw Pruning Universal
	1	HFA10016	Handle Universal Saw
	1	HFA30007	Scabbard for Saw
	1	HF01-020	Carry Bag 1.2m Sticks
	-	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

#61317-6P



#61317-6PL



#BY3 (Made in Japan)



#19



#30



#24



#17

MODEL NO. SH-5PDG HYDRAULIC HAND PUNCH (MADE IN JAPAN)

CAPACITY

- 90mm diameter hole in 3.2mm thick mild steel.
- 40.5 diameter hole in 3.2mm thick stainless steel.

FEATURES

The SH-5PDG is a portable hand hydraulic punch with swivel head for easy access to tight work areas.

DETAILS

- Self-contained hand hydraulic punch
- Ideal for switchboards
- Slim design



SPECIFICATIONS

Model No.	SH-5PDG
Output force (kN)	50
Rotation	2 Way 360 Degree
Case Included	Steel
Weight (kg)	2.4

MILD STEEL PUNCH KIT MODEL NO. SH-5PDGISOMS

INCLUDES:

- 1 SH-5PDG Hand hydraulic punch
- 2 Draw studs (3/8" & 3/4") Model No. 10-04 & 10-05
- 4 Collars/Spacers (Large, Medium, Small, Ex-small)
- 1 Steel carrying case
- 7 Round Punching Dies Shark Brand 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm Diameter (3 crown style ISO)
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14

STAINLESS STEEL PUNCH KIT MODEL NO. SH-5PDGISOSS

INCLUDES:

- 1 SH-5PDG Hand hydraulic punch
- 3 Draw studs (3/8", 7/16" & 3/4") Model No. 10-04, 29451 & 29452
- 4 Collars/Spacers (Large, Medium, Small, Ex-small)
- 1 Steel carrying case
- 6 Round Punching Dies Shark Brand 16.2, 20.4, 22.5, 25.4, 32.5 & 40.5mm Diameter (twin cutting edges ISO)
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14



MODEL NO. SH-10 HYDRAULIC HAND PUNCH (MADE IN JAPAN)



CAPACITY

- 104mm diameter hole in 3.2mm thick mild steel
- 63.5mm diameter hole in 3.2mm thick stainless steel

FEATURES

The SH-10 is a hand pump with remote punching head on hose lead for flexibility.

DETAILS

- Ideal for switchboards
- Slim and manoeuvrable design



SPECIFICATIONS

Model No.	SH-10
Output force (kN)	87
Oil Required (cc)	35
Dimensions (mm)	370 (L) x 220 (W) x 130 (H)
Kit Weight (kg)	9.0

MILD STEEL PUNCH KIT Model NO. SH-10ISOMS

INCLUDES:

- 1 SH-10 Hand hydraulic punch
- 2 Draw studs (3/8" & 3/4") Model No. 10-04 & 10-05
- 3 Collars/Spacers (Large, Medium & Small)
- 1 Steel carrying case
- 7 Round Punching Dies Shark Brand 16.2, 20.4, 22.5, 25.4, 32.5, 40.5 & 50.8mm Diameter (3 crown style ISO)
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14



STAINLESS STEEL PUNCH KIT Model NO. SH-10ISOSS

INCLUDES:

- 1 SH-10 Hand hydraulic punch
- 3 Draw studs (3/8", 7/16" & 3/4") Stainless Steel Model No. 10-04, 29451 & 29452
- 3 Collars/Spacers (Large, Medium & Small)
- 1 Steel carrying case
- 7 Round Punching Dies Shark Brand 16.2, 20.4, 22.5, 25.4, 32.5 & 40.5 & 50.8mm Diameter (twin cutting edges ISO) 63.5mm Punch & Die Sold Separately
- 1 Short Stud Adaptor (3/4" x 3/8") Model No. 10-14



MODEL NO. LS100L (BB) BATTERY PUNCH (MADE IN GERMANY)



The 11-Ton LS100L Battery powered Punch Driver from Greenlee is the fastest, most powerful knockout driver available on the market today. Easily punch up to 152.4mm conduit size holes in mild steel and 101.6mm holes in stainless steel. Using integrated smart-technology senses when the punch cycle is complete it automatically shuts off, extending tool life and preventing damage to the punch and die.

FEATURES

- Up to 2x faster cycle time*
- Powerful 11t punch force
- Compact & ergonomic
- 360° rotating head punches at any angle
- Lightweight at 2.63kg
- "Auto-Stop" avoids damage to punch
- Led light for dark areas
- 18V Li-Ion Makita Battery
- Easy one-handed operation with ergonomic tapered grip
- 8 second maximum cycle time

* Compared to similar competitive products

PUNCHING CAPACITY

Material	Punch Size (mm OD)	Material Thickness (mm)
Mild Steel	12.7-101.6	3.4
	127.0-152.4	2.6
Stainless Steel	12.7-76.2	3.4
	88.9-101.6	2.6



Punches & Draw Studs
Sold Separately

SPECIFICATIONS

Model No.	Kit Contents	Battery	Force (Tonne)	Wt (kg) TOOL ONLY
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)	
Round Hole Size (mm)	Model No.	Draw Stud Used
16.2	PD-16.2MS	10-04 OR 30043 – 3/8"
20.4	PD-20.4SS	30043 – 3/8" (1.6mm 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 254)

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



**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



AV6220	AE6210	AV3920	AE6200	17220	17240	17230
Universal	Outer Sheath	Insulated Knife	Insulated Wire	Semi-Conductor Screen Removal	Chamfer	Internal Insulation Cutting

SPECIFICATIONS

Model No	Description	Applications	Cable Capacity (mm)	Thickness (mm)	Notes	Wt (kg)
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)



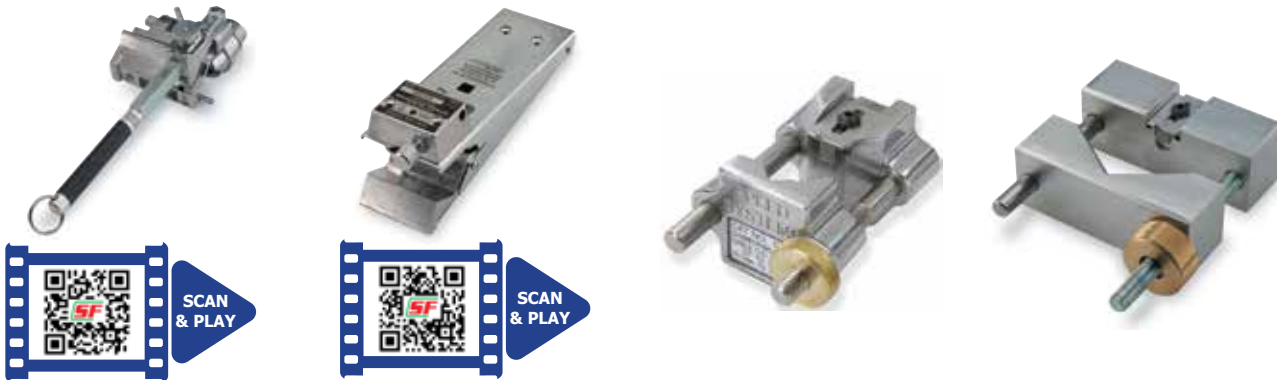
IR	HCS40	HSCS1342
Universal "D" Ripper Stripper	Sheath, Scoring & Insulation Remover	Semi-Conductor Stripper





CABLE PREPARATION TOOLS – CABLE STRIPPERS (MADE IN ITALY)

High quality American range of stripping tools and accessories



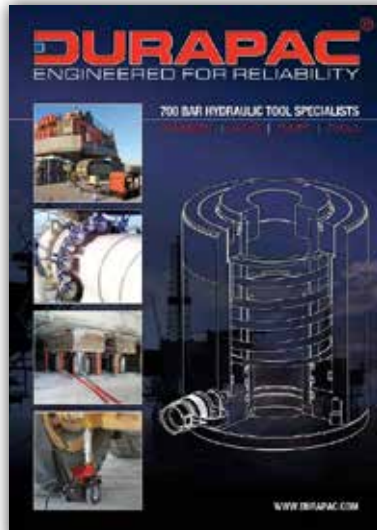
1542-2CL	1700	CT-1	CT-2
Insulation Stripper	Adjustable Blade Scorer	Chamfer Tool	Large Chamfer Tool

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	-

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Safety, Lighting & Flags



ELECTRICAL, WINCHES, STRINGING & CABLE LAYING

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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				

"POLE BUG" LED STROBE LIGHT & 2-FLAG HOLDER

Using effective, long lasting LED technology - these LED's are rated for 100,000 hours of heavy duty operation providing a reliable pole mount transportation device. The single bright RED LED (also available in Amber), with a 8-11km visibility range, includes four flash patterns: Comet, Single, Steady Burn and Flare Flicker. The light module is encapsulated for vibration and moisture resistance with dual front/angled reflectors. The lights can be viewed from the back and sides. The system is powered by three alkaline "C" batteries allowing the 100+ hours of continuous operation. Easy to attach and deploy, using heavy duty strap that attaches to all type of poles and sizes. Additional features include powder coated metal components and dual flag holders. Includes batteries and two red flags.

FEATURES

- **Red or Amber** LED Light: Four Flash Patterns
- LED Rating: 100,000 hours
- Batteries: Three Alkaline "C" size (Included)
- Battery Run Time: 100+ Hours

Model No.

7015-R (Red)

7015-A (Amber)

Replacement flag (true bright red), single flag and dowel, Model No: **7074**



LIGHT – POLE TRANSPORT POLE TRANSPORTATION, "LED 360°" STROBE LIGHT & 2 FLAG HOLDER

DESCRIPTION

360° LED strobe utilizes 24 long lasting LEDs to create a high visibility 60 flashes per minute strobe.

LED Strobe is powered by 2 "D" batteries. System is easy to attach and deploy, using a heavy duty strap that attaches to all type and sizes of poles. Additional features include powder coated metal components and dual flag holders. Includes batteries and two RED flags

FEATURES

Systems are compact and designed to be stored on your vehicle!

- **Red or Amber** LED Light
- LED Rating: 100,000 hours
- Batteries: Three Alkaline "D" size (Included)
- Battery Run Time: 100+ Hours
- Great for Mid Pole or rear protection
- Very low profile

Model No.

7167-R (Red with Flag Holders and 2 RED Flags)

7167-A (Amber with Flag Holders and 2 RED Flags)



RGW SERIES SIGNALLER TORCHES (INDUSTRIAL, RAIL, MINING & UTILITIES)

The **SIGNALLER** is a lantern and torch combined. It has multiple LEDs for greater light concentration that is visible for up to 2km.

The standard units come with green, red, amber, and white LEDs. The torch is powered by a 6-volt 4.5Ah rechargeable lithium battery with up to 30 hours of life per full battery charge. The full charge takes only 90 minutes. They are weatherproof and come with an adjustable stand and carry strap.

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

Warranty: 12 months from date of purchase.

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

**RAILWAY DESIGN.
NOW WITH
FREE STANDING
ADJUSTABLE BASE**

Light Colour	Lumens	Lux
White	430	8,000
Green	215	4,000
Red	215	4,000
Amber	215	4,000



MODEL NO. TWINLEDWHITE

Specially designed bright LED torch for maintenance personnel which has the same features as the Signaller torch above but has;

- 2 light modes (white only)
- Built in protection power supply
- Wall mount plate and wires for permanent mounting on wall or in vehicle
- Centre superior "CREE" LED'S
- Ideal for workshops



SOLARIS LITE LED PORTABLE RECHARGEABLE AREA LIGHTING SYSTEM

The Solaris Lite range uses the latest in LED technology and thermal power management, providing intense light power in a compact portable unit. This unit can be set up in less than 1 minute for rapid deployment in emergency situations, and is made from a very tough ABS plastic to ensure long operating life and reliability for all situations. All Solaris models produce no heat and operate silently, making them ideal lightweight alternatives to 500W halogens running off a generator. No maintenance and can be left in any state of charge.

FEATURES

- Set up in less than 1 minute
- Wide angle spread 180°
- Robust, durable construction
- Totally silent operation
- Recharges from mains & vehicle
- Lightweight 5.7kg (Li-ion)
- Ideal to use in remote locations/confined spaces
- Designed to meet IP65, totally weatherproof
- A safe alternative to halogen based equipment

HEAD

- 16,000 lumens light output
- Robust
- Can light huge areas
- Cool to touch
- Environmentally friendly (no noise or emissions)
- Able to be run from rechargeable power pack
- Fully portable

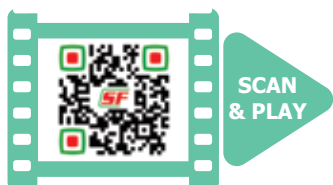
ADVANCED TECHNOLOGY

- Linear LED innovation – 3 x 30° optics are used in the Solaris head.
 - This design reduces light pollution and effectively doubles* the LUX value on the target area.

*Compared to conventional LED floodlights

ACCESSORIES

Model No.	Description
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

NightSearcher



Model No. NS-GALAXY-PRO



SCAN
& PLAY



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



Manufacture
label with
rating/care/
warning

ESTEX



SINCE 1900



Certified, cyclic load tested over 70 times!

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



Global-Mark.com.au®
ID Number: 101365



Reference



REFERENCE

282-288

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RAIL PROFILES	283
RAIL HISTORY – AUSTRALIA	286

RAIL GAUGE

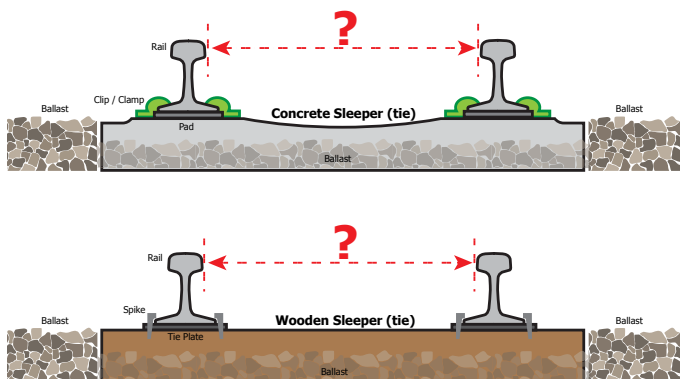
AUSTRALIAN RAILWAY GAUGES

Australia's state run railways have not been known for cooperating in the past. The three railway gauges that exist are:

NARROW GAUGE (1,067mm / 3'6" [42"])

STANDARD GAUGE (1,435mm / 4'8-1/2" [56-1/2"])

BROAD GAUGE (1,600mm / 5'3" [63"])



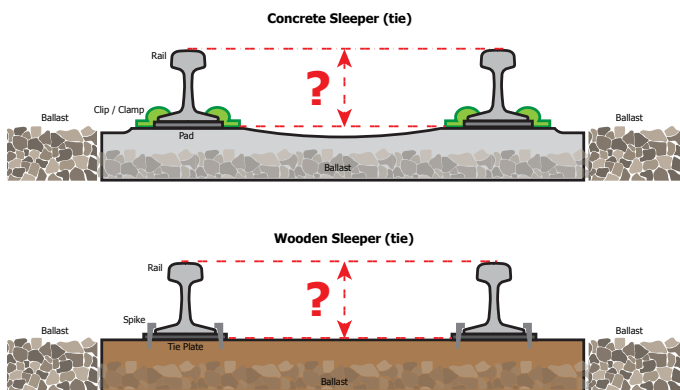
The following identifies each state or territory and their rail gauge types:

- ACT Australian Capital Territory STANDARD GAUGE (1,435mm / 4'8-1/2");
- NSW New South Wales adopted STANDARD GAUGE (1,435mm / 4'8-1/2");
- NT Northern Territory has STANDARD GAUGE (1,435mm / 4'8-1/2");
- QLD Queensland has NARROW GAUGE (1,067mm / 3'6");
- VIC Victoria chose BROAD GAUGE (1,600mm / 5'3");
- SA South Australia has all STANDARD GAUGE (1,435mm / 4'8-1/2"), BROAD GAUGE (1,600mm / 5'3") and NARROW GAUGE (1,067mm / 3'6");
- TAS Tasmania has NARROW GAUGE (1,067mm / 3'6");
- WA Western Australia has NARROW GAUGE (1,067mm / 3'6");

Today standard gauge exists nationally except in Tasmania and connects Brisbane, Sydney, Melbourne, Adelaide, Perth and Darwin. Victoria also built four NARROW(ER) GAUGE lines, one of which has been preserved as "Puffing Billy". Queensland is running high speed tilt trains on its NARROW GAUGE network.

HEIGHT OF RAIL

Devices installed between the rails (derails, hinged stops, weighing scales, etc.) should be no higher than the top of the rails. (An exception to this rule is any flexible urethane marking cone, such as a Track Clearance Marker.) Height of rail is usually measured from the top of the wooden sleeper (or tie) to the top of the rail. Do not forget the thickness of the tie plate. Put a pipe or straight piece of lumber across the rails and measure from the tie up to the underside of the pipe or board.



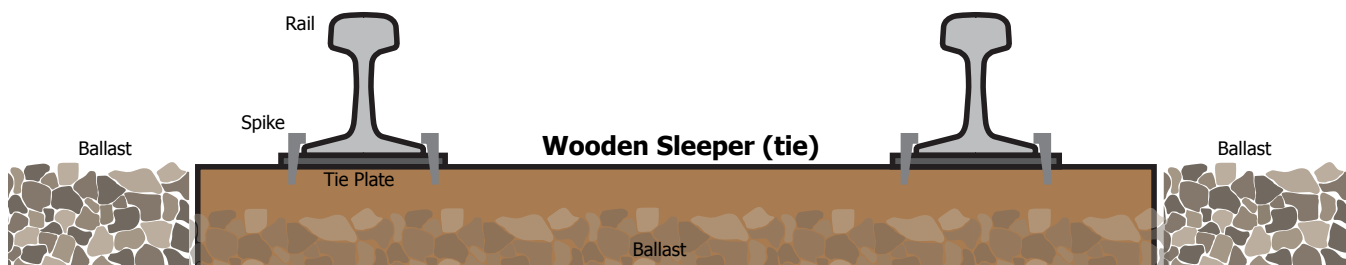
The technical information provided is intended for informational purposes only and is subject to change without notice. Information may be changed or updated without notice. Customers should seek technical information directly from manufacturers of railway track components to ensure accuracy and suitability of tools and equipment.

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:

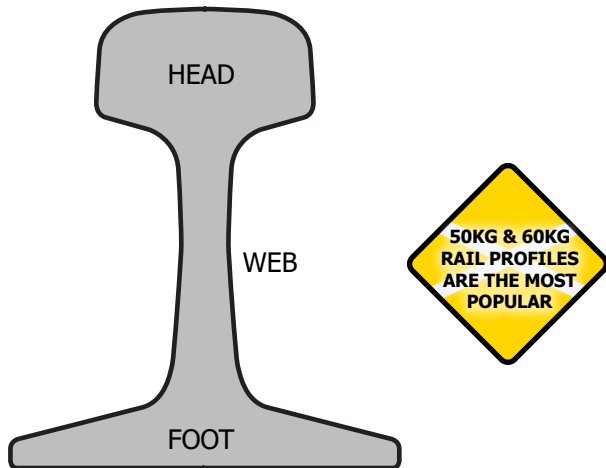


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RAIL PROFILE, WEIGHT, SIZE & FASTENING

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 285–287 for common rail profiles.

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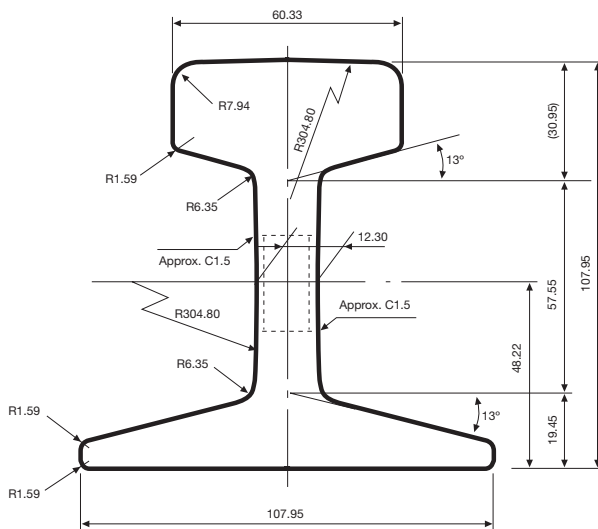
30KG, 31KG & 41KG RAIL PROFILES

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

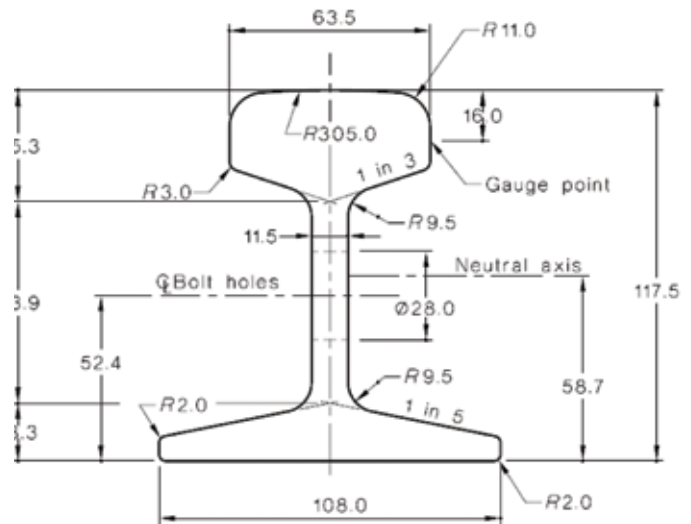


30 KG RAIL

JIS E1101

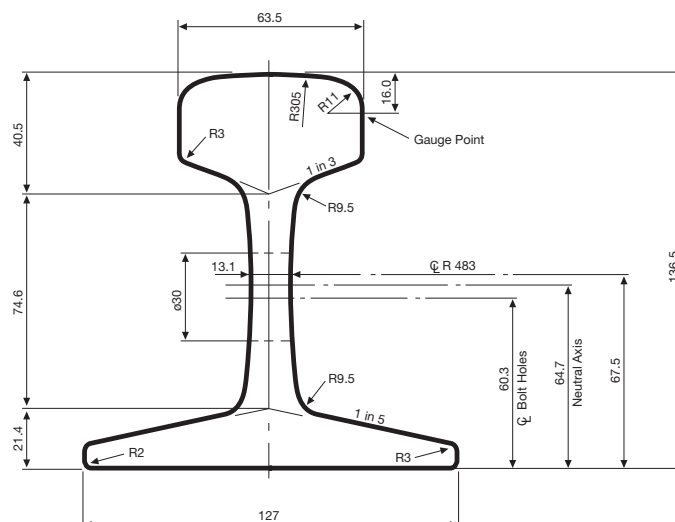


31 KG RAIL



41 KG RAIL

RT 23



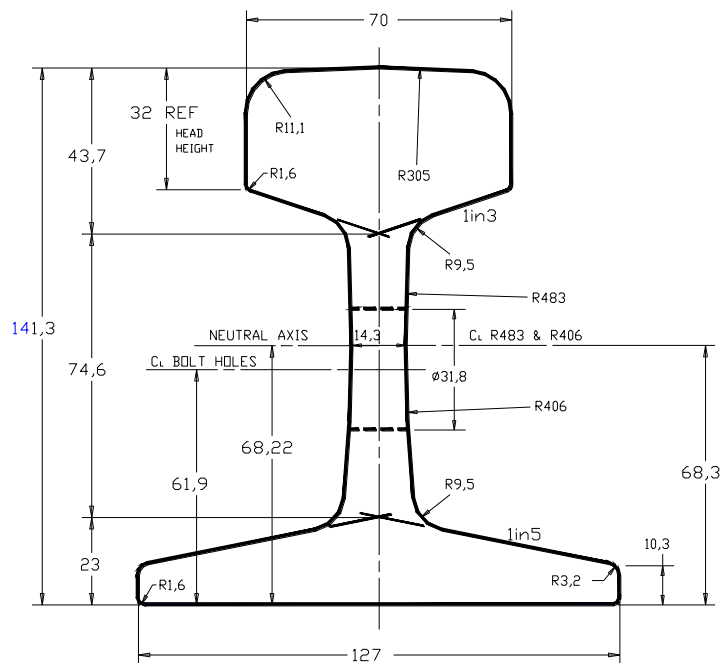
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47KG & 50KG RAIL PROFILES

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

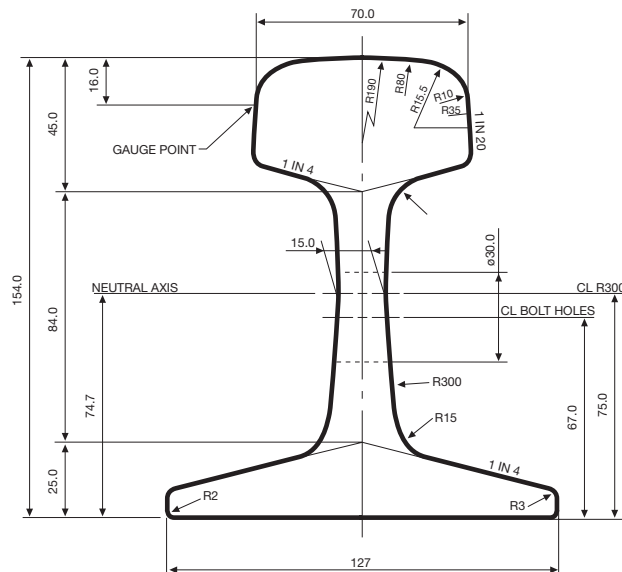


47 KG RAIL



50 KG RAIL

RT 23



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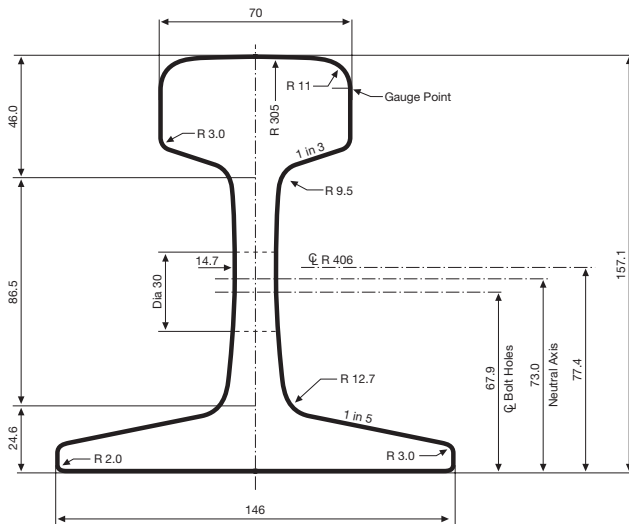
53KG & 60KG RAIL PROFILES

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



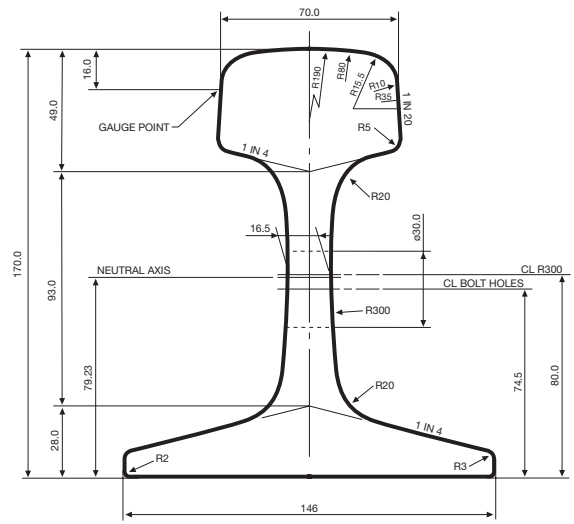
53 KG RAIL

RT 25



60 KG RAIL

RT 23

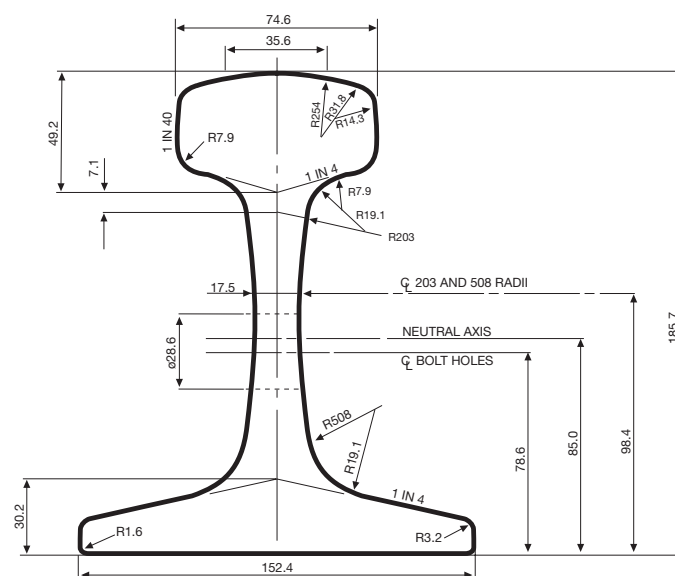


68KG RAIL PROFILE

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.

