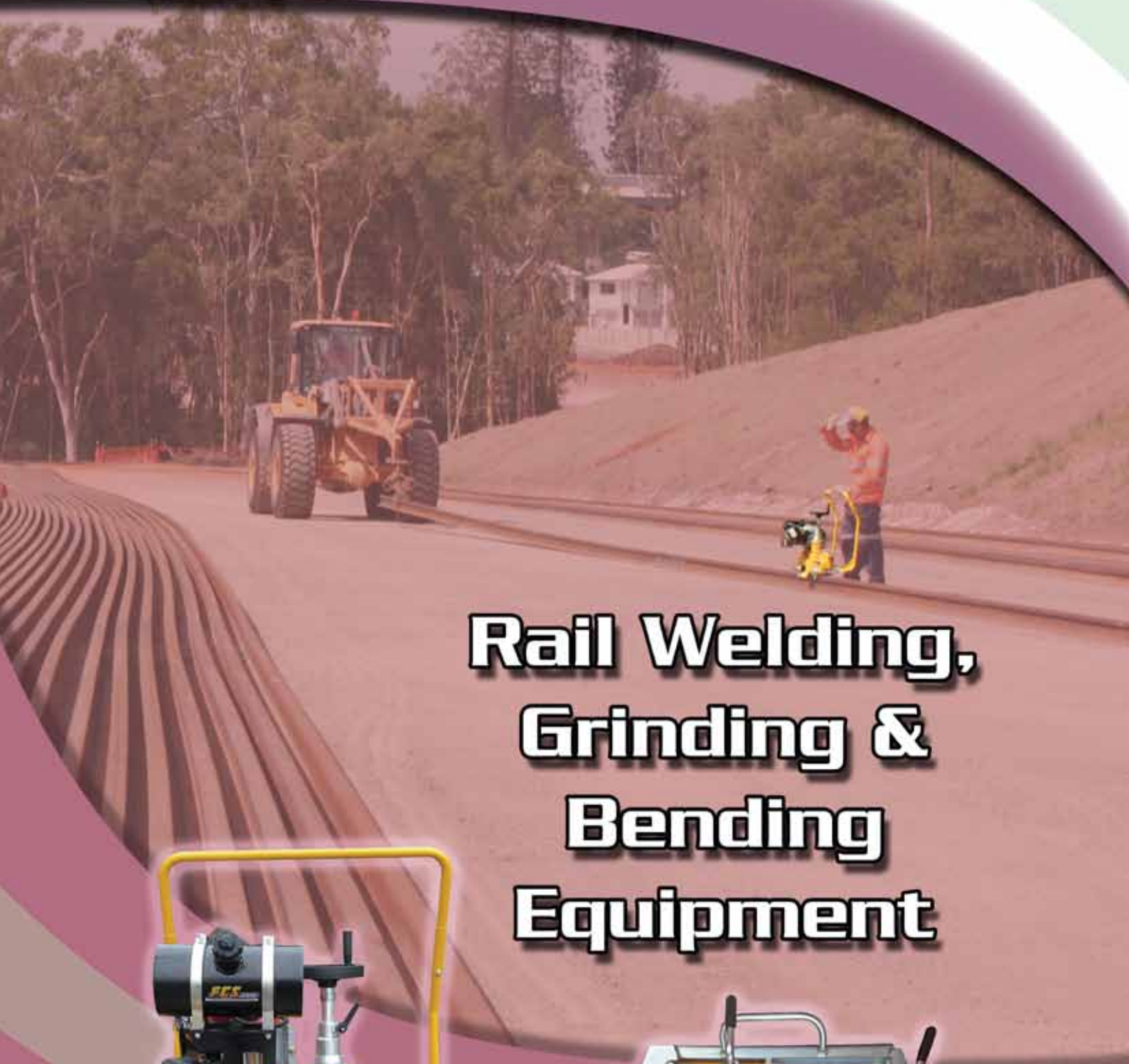
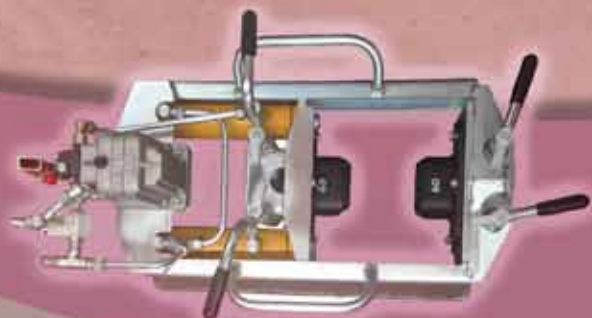




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PTY. LTD.



# Rail Welding, Grinding & Bending Equipment



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## WELDING, GRINDING & BENDING

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## HYDRAULIC RAIL BENDER

### MODEL NO. 4021-01

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



### FEATURES

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

### SPECIFICATIONS

#### BENDER HEAD

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

#### PUMP & HOSE

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



## HYDRAULIC RAIL BENDER (MADE IN ITALY)

### MODEL NO. PR3560 SERIES

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

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

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

Optional petrol pump available upon request

### SPECIFICATIONS

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

\* Does not include pump

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



MATRIX\*



COUNTER-MATRIX

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

### SPECIFICATIONS

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

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





## HAND OPERATED RAIL WELD SHEARS (MADE IN ITALY)

### MODEL NO. TSA365/2

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

### OPTIONAL

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

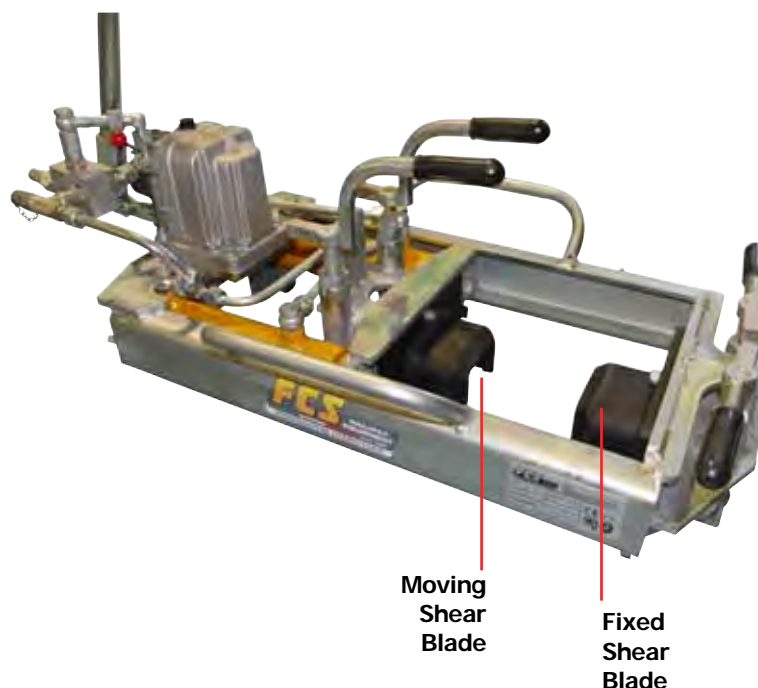


### SPECIFICATIONS

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

### ORDERING INFORMATION

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





## RAIL WELD SHEARS (MADE IN UK)

### MODEL NO. TCRSS&S

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

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



### OPTIONAL POWER OPTIONS



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

SF

**HPS-0603DR**



Hand Pump High Pressure Hydraulic 10,000PSI

DURAPAC

**P-2200**



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

DAIA

**DSP-120**



Petrol Pump High Pressure 10,000PSI with Roll Frame

DURAPAC

**PPM2014**

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

### FEATURES

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

### SPECIFICATIONS

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

\* Up to 68kg rail available upon request

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

### REPLACEMENT PARTS

Replacement Blades Model No.

**TCRSS-BLADE**

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







## DIESEL RAIL PROFILE GRINDER (MADE IN ITALY)

### MODEL NO. MPR4000D



### FEATURES

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

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

### SPECIFICATIONS

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



## RAIL PROFILE GRINDING CUP WHEELS

### MODEL NO. AZ14S5B

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



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





## PETROL PORTABLE GRINDER

### MODEL NO. 910085



Grinding Wheel



Bull Nose

### FEATURES

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

### DETAILS

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

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

HYDRAULIC WEB GRINDER (MADE IN USA)



FEATURES

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

SPECIFICATIONS

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



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



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

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



**Over Rail**



**Obstruction-less**



**Dual Obstruction-less Configuration**

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

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

### TECHNICAL

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



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

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

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

**Pump and hoses pictured sold separately, see page 106 for required pump details PPM2014.**

### FEATURES

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

### SPECIFICATIONS

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

REFER NEXT  
PAGE FOR  
SF16-32  
CONDUIT  
THREADER  
KIT



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

### DETAILS

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

### SPARE PARTS



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

BLP



BLP



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



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



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



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



Model No. **BRC** Retaining  
 clips x5



Model No. **BSPCA** Safety  
 Chain Assembly



Model No. **BGR** Grooved roller



Model No. **BUNIBL** Universal bending lever



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





**MODEL NO. SF16-32 METRIC THREADING KIT FOR STEEL CONDUIT (MADE IN JAPAN)**

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



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



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

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

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



SCAN  
& PLAY



SCAN  
& PLAY



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



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



9200345.5 (UNI60A)

DIGITAL (230V 50Hz)

9200350.4 (UNI60A)

ELECTRIC (230V 50Hz)

**DESCRIPTION**

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

**TECHINCAL**

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

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

**LARGE RANGE OF  
FORMERS AVAILABLE.  
PLEASE VISIT OUR  
WEBSITE FOR MORE  
INFORMATION**

**DIMENSIONS (mm) without stand**

520 L x 210 W x 410 H

520 L x 210 W x 410 H

**WEIGHT (kg)**

60

60

**ACCESSORIES**



Folding stand.

For UNI 42 (Model No. 000592.1).

For UNI 60 (Model No. 000593.1).



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



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



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



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



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

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



**PB SERIES HYDRAULIC PIPE BENDERS (MADE IN JAPAN)**

**FEATURES**

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

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

Bending shoes are designed to bend gas pipe or steel electrical conduit - listed in the charts below.

For use with any 700-bar hydraulic single-acting high-pressure pump. **Refer Section "C" of the Electrical catalogue.**

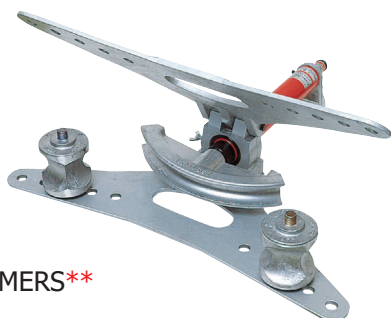
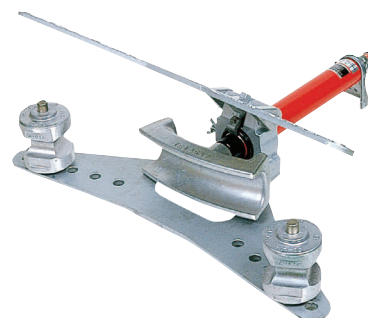
**PLEASE NOTE:** Hydraulic Pump & Bending shoes are sold separately - unless otherwise indicated

**SUITABLE CONDUITS & PIPES**

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

**SPECIFICATIONS**

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

**HINGED TOP PLATE**

**MODEL NO.**
**PB-10N**
**PB-10N INC FORMERS\*\***
**HINGED TOP PLATE**

**MODEL NO.**
**PB-15N**
**BENDING SHOES STEEL CONDUIT**

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

\* Segmented bending required to produce a 90° bend

**BENDING SHOES GAS PIPE**

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


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



**BATTERY TOOL FEATURES**

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

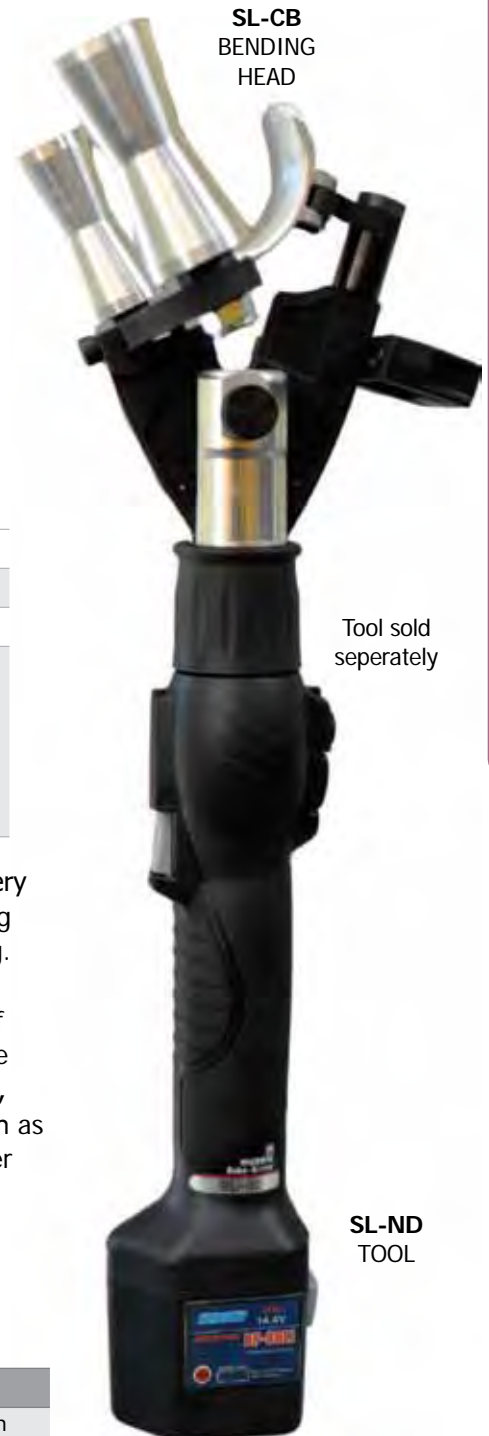
**SPECIFICATIONS**

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

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

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

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



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**Refer to SF Electrical Catalogue for Crimping Heads and Cutting Head**

## BUS BAR EQUIPMENT



### HYDRAULIC BUS BAR CUTTER



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

### HYDRAULIC BUS BAR BENDER



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

### HYDRAULIC BUS BAR BENDER - TRIS WORK UNIT



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

Contact SF for more detail

### ASSOCIATED EQUIPMENT



DSP-120 230V ELECTRIC HYDRAULIC PUMP



SH-70B HYDRAULIC BUS BAR PUNCH

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

Refer to page 275



## TCS-5 SERIES CONTACT WIRE STRAIGHTENER

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



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



## SPECIFICATIONS

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