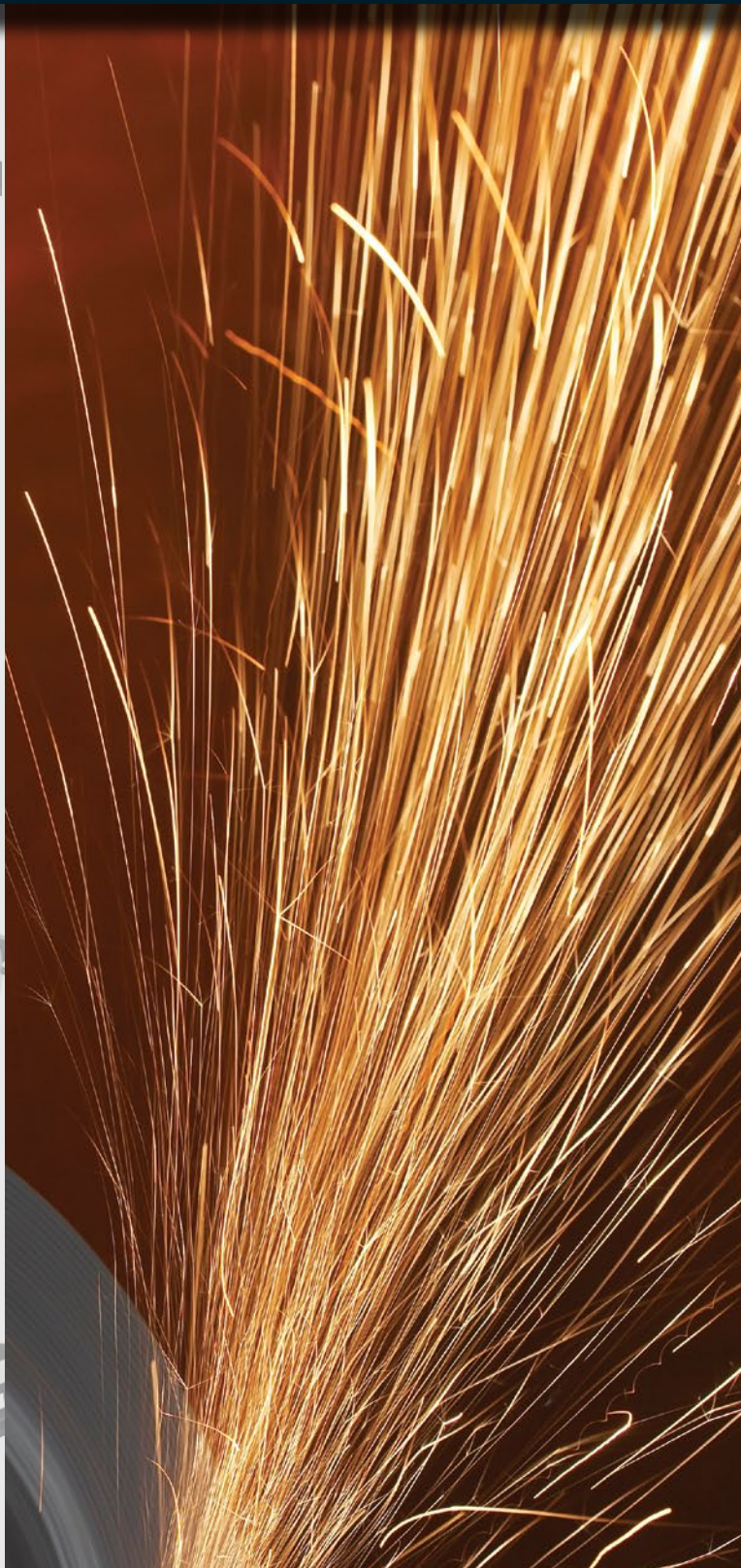


Industrial Products Catalogue



Manufacturers and Industrial Agents

Catalogue 812

www.garrickherbert.com.au

Garrick Herbert Pty Ltd was established in March 1981 as the newest member of the Herbert Engineering Group. Its parent company, R.R. Bramley & Co. Ltd was founded in Auckland, New Zealand in 1921 by Richard Bramley as an Engineering workshop. Philip Herbert purchased the company in 1954 and commenced production of the 'BRAMLEY' range of small engineering machine tools. Exports of these products to Australia grew to the stage that his youngest son, Myles Herbert, moved to Sydney to establish Garrick Herbert P/L as a local base for distribution of the range throughout Australia.

To complement the Bramley range, international brands for allied quality products were introduced. Early additions were the Asada Threading Machines and Irega Adjustable Wrenches - both now market leaders in Australia.

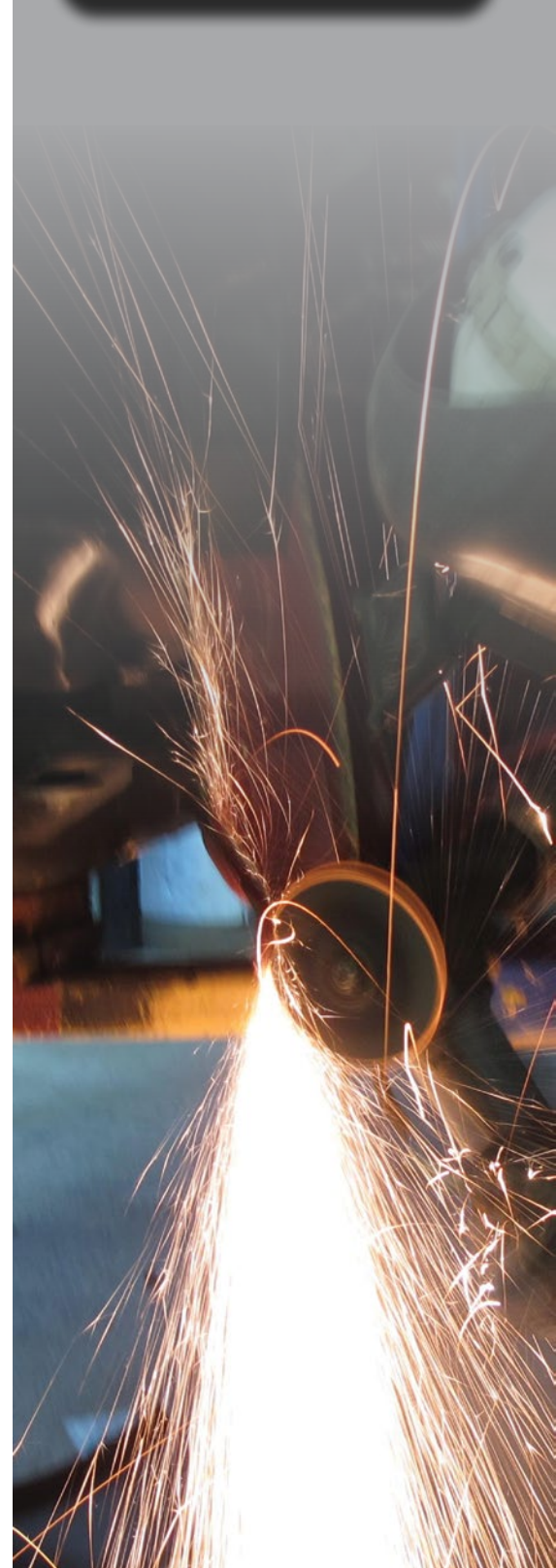
In 1987 manufacturing at the Sydney operation began with the introduction of 'Bramley - Aust Made' sheetmetal Curving Rolls. Following the success of that product range LINISHALL, the brand leader in Belt Grinding, was purchased in 1991 and integrated into the Sydney facility.

The company now represents a diverse collection of reputable manufacturers from Australia, New Zealand, Japan, USA, Spain, Thailand, China and other countries and distributes their products through Industrial Supply and Machinery Merchants throughout Australia. Only the highest quality products suitable for industrial trade users are selected.

Products include: hand and machine tools, machinery, lifting and materials handling equipment, cutting oils and absorbents, etc.

Due to rapid company growth, Garrick Herbert moved into premises four times larger in 2006, purchasing the current location at Kirrawee in the southern suburbs of Sydney.

In 2011 further expansion was undertaken with the establishment of Garrick USA LLC. Based in Winona, Minnesota, the company distributes key product lines, such as Bramley and Linishall, into the American and Canadian industrial marketplaces.



Contents

BRAMLEY



Asada



EverSoak[™]



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BRAMLEY

Bar Benders

Model AB1

Features 4-position quick cam action clamping.

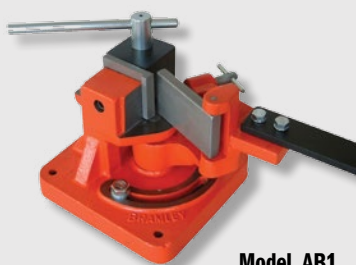
Model AB2

Uses full vice clamping with double spring return.

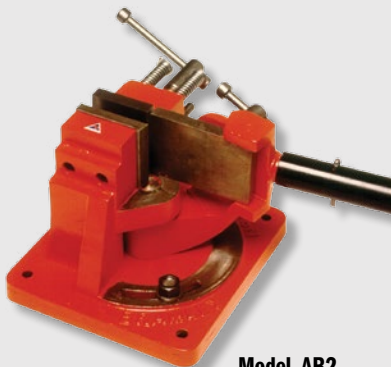
- Solid cast iron construction with swivel casting made from spheroidal graphite iron for extra strength
- Infinitely adjustable angle stop to achieve bends from 0° to just over 90°
- Swivel bending plate adjusts against steel being bent for sharp bending radius
- Optional stand

MILD STEEL	AB1	AB2
FLAT BAR	80 x 6mm or 60 x 8mm or 30 x 12mm	100mm x 8mm or 60 x 10mm or 50 x 12mm
SQUARE	20 x 20mm	25 x 25mm
ROUND	Ø 20mm	Ø 25mm

Capacities are rated on volume of steel to be bent. (i.e. as height is increased, width must be correspondingly decreased)



Model AB1



Model AB2



Model AB2 mounted onto optional stand Part No. ABSTAND

BRAMLEY

Rod Bender

Model 60/16

Up to 16mm M.S. rod capacity.

- Simple and easy to use rod bender
- When bending deformed section reinforcing bar, the effective diameter of the rod has been increased due to the deformation pieces: capacity is therefore reduced



BRAMLEY

Manual Thin Wall Tube Bender

For bending thin wall tube up to 90° in one operation.

Model TBRD - Round

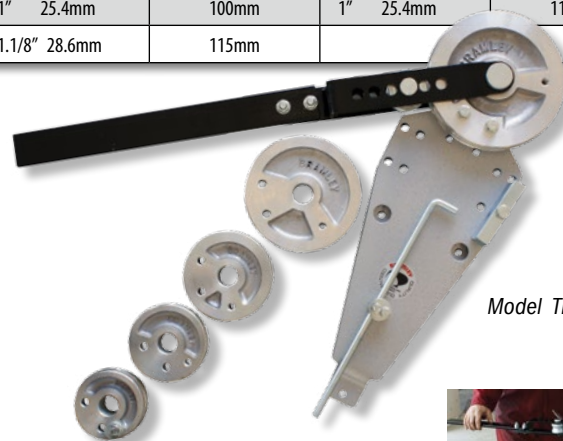
Supplied with a set of 5 formers & follow roller to suit round tube (1/2" - 1" dia).

Model TBSQ - Square

Supplied with a set of 5 formers & follow roller to suit square tube (1/2" - 1").

- Now with lightweight aluminium alloy formers
- Square formers can fit onto the round tube bender (& vice-versa)
- The 1.1/8" round former is an optional extra
- Optional stand - incorporates storage pegs for formers

ROUND FORMERS		SQUARE FORMERS	
TUBE SIZE	RADIUS OF BEND	TUBE SIZE	RADIUS OF BEND
1/2" 12.7mm	50mm	1/2" 12.7mm	65mm
5/8" 16.0mm	55mm	5/8" 16.0mm	85mm
3/4" 19.0mm	65mm	3/4" 19.0mm	100mm
7/8" 22.2mm	85mm	7/8" 22.2mm	115mm
1" 25.4mm	100mm	1" 25.4mm	115mm
1.1/8" 28.6mm	115mm		



Model TBRD

Model TBRD shown in use and mounted on optional stand (Part No. TBSTAND) which incorporates storage pegs for formers.



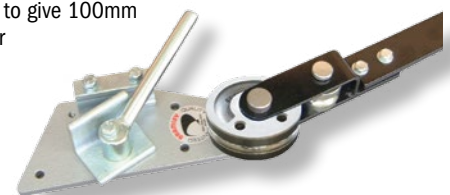
BRAMLEY

Pool Fence Tube Bender

Model TBPF

For bending tube into a tight radius (up to 180°) - such as for pool fencing to meet Australian Standards.

- The standard unit is supplied with one former and follow roller suitable for 5/8" dia. round tube to give 100mm centres bending diameter
- Optional stand available (Part No. TBPSTAND)



Available formers and follow rollers are as follows:

TUBE SIZE	BENDING DIAMETER	TUBE SIZE	BENDING DIAMETER
1/2" 12.7mm	100mm centres	5/8" 16.0mm	110mm centres
5/8" 16.0mm	100mm centres	3/4" 19.0mm	110mm centres



Steel Bending and Forming

BRAMLEY



Hydraulic Pipe Bender

Model PB2

Supplied with six formers, two bobbins (support rollers) and pins.

- Lightweight aluminium alloy formers with large angle of arc to support pipe during bending. This results in a bend of superior quality
- Cross section of formers is of "elliptical" form to minimise flattening of bend
- Solid frame fabrication eliminates flexing during bending operation
- Hydraulic ram is easily removed from frame and converts to 12 ton jack



FORMER	RADIUS OF BEND	FORMER	RADIUS OF BEND
1/2"	75mm	1.1/4"	175mm
3/4"	105mm	1.1/2"	200mm
1"	140mm	2"	240mm

BRAMLEY



Hydraulic Thin Wall Tube Bender

Model TBHYD

Supplied standard with 1", 1.1/2" & 2" pipe formers.

1" - 2" N.B. capacity and up to 2mm wall thickness in mild steel.

- 180° maximum bend, so perfect for producing U-bends



Size range available:

TUBE SIZE	Centreline Radius of Bend
1" (25.4mm)	115mm
1.1/8" (28.6mm)	115mm
1.1/4" (31.8mm)	115mm
1.3/8" (35mm)	140mm
1.1/2" (38mm)	140mm
1.5/8" (41.3mm)	140mm
1.3/4" (44.5mm)	165mm
1.7/8" (47.6mm)	165mm
2" (51mm)	165mm

Refer to page 24 for Hand Tube Benders

BRAMLEY



Electric-hydraulic Pipe Bender

Model 57972L

Supplied with 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2" & 2" pipe formers. 1/2" - 2" N.B. capacity.

- Closed frame style with fold-away top plate for easy removing of bent pipe
- Enclosed, maintenance-free monoblock hydraulic system with automatic piston return
- High thrust hydraulic pump with 150 kN (15,000 kg) piston rating for high speed working
- Powerful, compact motor for efficiency with portability
- Easily dismantled to store or transport in the strong carry case



Electric Tube Bender

Model 7642051

Supplied as a set comprising 1/2", 3/4" and 1" O.D. formers c/w tripod and robust carrying case. Additional former sizes available as optional extras.

For fast and effortless tube bending.

- Portable for on-site work
- Easy angle setting for repeat bends from 0° - 180°
- Formers available for bending reinforcing bar



Round Formers	
Tube Size	Radius of Bend
1/2"	12.7mm / 45mm
5/8"	16.0mm / 56mm
3/4"	19.0mm / 80mm
7/8"	22.2mm / 88mm
1"	25.4mm / 112mm
1.1/8"	28.6mm / 112mm



Electric Tube Bender in carrying case.



Sheetmetal Guillotine

Model TG412 - 1320 x 1.2 mm capacity

- Foot operated Manual Treadle Sheetmetal Guillotine
- Heavy cast iron frame and beam
- Front sheet support with adjustable cutting gauge
- Ruled backgauge with micro adjustment
- Adjustable mitre gauge



BRAMLEY

Box & Pan Sheetmetal Folder

Model 2F - 610 x 1.2 mm capacity

- Bench mounting
- Heavy duty all steel construction
- Made to the same quality and precision specifications as larger machines, but with compact size and economy
- Interchangeable fingers for wide variety of box & pan sizes
- Cam adjustment on top beam provides simple and positive setting for different material thickness
- Simple robust clamping action



BRAMLEY

Box & Pan Sheetmetal Folder

Model 4F - 1220 x 1.6 mm capacity

- Floor mounting
- Heavy duty all steel construction
- Precision machined
- Sectioned fingers (16 assorted sizes) are easily removeable for box bending and special forming operations

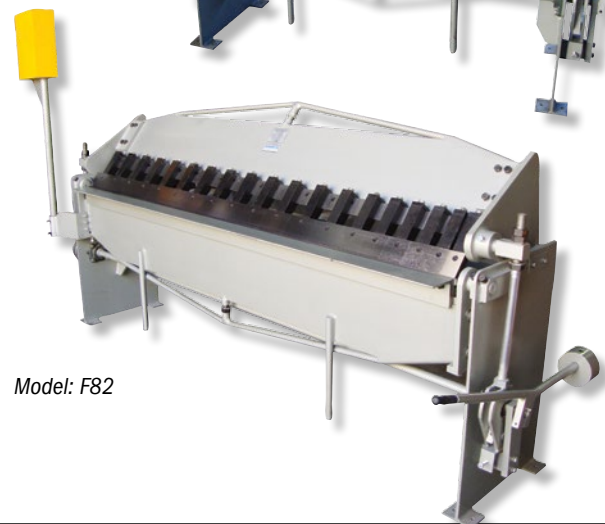
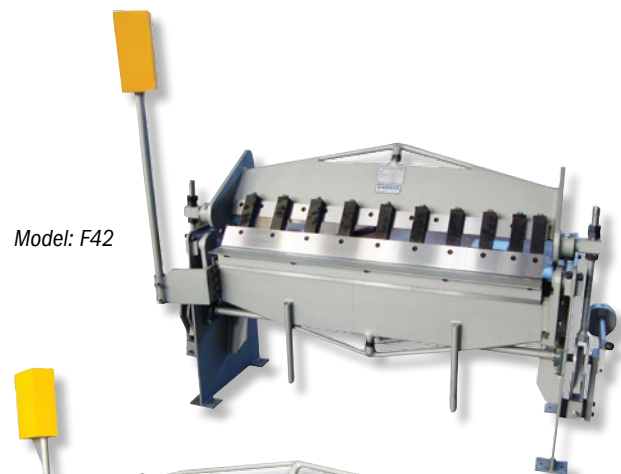


Box & Pan Sheetmetal Folder

Model F42 - 1220 x 2.0 mm capacity

Model F82 - 2500 x 2.0 mm capacity

- Bending angle: 0° - 135°
- Manual sheetmetal panbrake with segmented blade.
- Heavy duty all steel construction



Steel Bending and Forming

BRAMLEY



Bench Curving Rolls

Model 18ROLLS - 25mm x 450mm Rolls - 0.8 mm capacity

- Heavy duty all steel construction
- Top roll lifts for easy removal of tubular work
- Incorporates grooves for wiring work



BRAMLEY
AUSTRALIAN MADE

Sheetmetal Curving Rolls

Model 2X40 - 50mm x 1010mm Rolls x 1.2 mm capacity

Model 2.5X50 - 63mm x 1270mm Rolls x 1.6 mm capacity

- Solid steel & investment cast construction
- Wide sheetmetal base for stability
- Top roller lifts out for small diameter rolling
- Quick roller adjustment



BRAMLEY



Sheetmetal Swage, Jenny & Wiring Machines

Model SJ1 - manual - 20swg (1.0 mm) capacity

Model SJ2 - manual - 16 swg (1.6 mm) capacity

Model SJ2-M - powered - 16 swg (1.6 mm) capacity

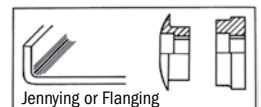
Supplied with heavy-duty 750W (1HP), 3Ph motor and reduction gearbox to drive the rollers at 38rpm, controlled via interlocked forward / reverse footswitches.

- High quality, robust, industrial duty machines, manufactured from high grade grey cast iron, which provides good strength whilst also providing a very good bearing surface for the rotating shafts and slider blocks

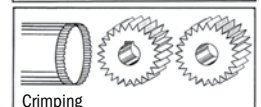
CAPACITY	SJ1	SJ2 / SJ2-M
SHEET	20g (1.0mm)	16 g (1.6mm)
THROAT DEPTH (with guide)	87mm	100mm
(without guide)	187mm	240mm



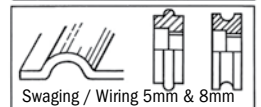
Model: SJ1



Jennying or Flanging



Crimping

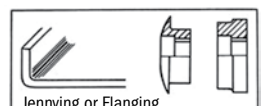


Swaging / Wiring 5mm & 8mm

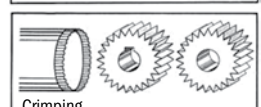
Standard wheels - SJ1



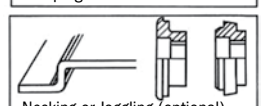
Model: SJ2



Jennying or Flanging



Crimping



Necking or Jogging (optional)



Swaging / Wiring 2mm, 4mm, 7mm

Standard wheels - SJ2



Model: SJ2-M

Optional wheels - SJ2

- 10mm Swaging / Wiring
- Necking

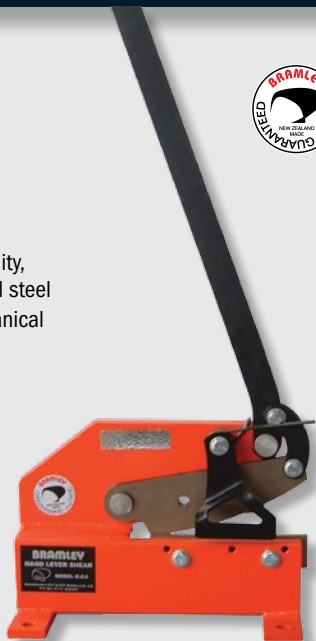
BRAMLEY

Hand Lever Shears

Model HS4

Model HS5

- Blades manufactured from high quality, wear resistant, precision ground tool steel
- Lever toggle action gives high mechanical advantage for easy cutting
- Body manufactured from thick section mild steel plate
- Handle balance spring assists ease of operation
- Simple lower blade adjustment for correct shearing tolerances
- Suitable for cutting sheetmetal



Capacity	MODEL HS4	MODEL HS5
Plate	4mm	5mm
Flat	60 x 5mm	70 x 6mm
Round	11mm	13mm
Blade Length	155mm	200mm
Cutting Length (Max)	125mm	175mm

BRAMLEY

Hand Lever Bench Punch

Model PUNCH

For punching holes in sheetmetal.
Supplied complete with all punches and dies for 3mm to 10mm.

- Punches and dies manufactured from high quality, wear resistant, precision ground tool steel
- Body manufactured from thick section steel plate
- The hand lever rotates a bronze eccentric cam giving the necessary mechanical advantage to a sliding plate which carries the punch



Punch Diameter	Material Thickness	Punch Diameter	Material Thickness
3mm	1.5mm	6mm	2.5mm
4mm	2mm	8mm	2.5mm
5mm	2.5mm	10mm	2.5mm

BRAMLEY

Circular Cold-Cut Saw

Model 250-1 - 1-phase

Model 250-3 - 3-phase/2-speed

Bramley Circular Cold-cut Saws are designed to provide fast, economical metal cutting of all types and shapes of steel with a precision, burr-free milled finish. Has fully supported gears, balanced & adjustable pivot point, and an integral blade coolant system making it especially suitable for industrial use. Features include:

- Rapid action, self-centring vice
- Enclosed guarding
- Infinitely variable mitre cutting (0 - 45°)
- Blade coolant system
- Heavy-duty construction



0°	70mm	60mm	80 x 50mm	38mm	38mm
45°	60mm	50mm	65 x 50mm	32mm	32mm

Model	Motor	Speeds	RPM	Power
250-1	240V Single Phase	1 speed	40	1.1kW (1.5HP)
250-3	415V Three Phase	2 speed	40 / 80	1.5kW / 1.1kW (2.0HP / 1.5HP)

BRAMLEY

Chassis Hole Punches

1/2" - 3" individual sizes available

(see table below)

Set of 6 popular sizes

(16, 20, 22, 25.4, 32 & 35 mm)

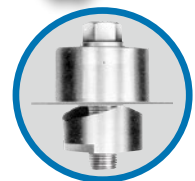
For simple cutting of neat holes in sheetmetal up to 1.6mm mild steel.

Simple to use:

1. Drill a hole 1/32" larger than drive screw
2. Insert screw through die
3. Place screw through hole in metal & screw on punch
4. Turn drive screw with spanner or wrench until metal is cut



MODEL	Size	MODEL	Size
CP12.5	1/2" (12.5mm)	CP32	1-1/4" (32mm)
CP16	5/8" (16mm)	CP35	1-3/8" (35mm)
CP19	3/4" (19mm)	CP38	1-1/2" (38mm)
CP20	20mm	CP41.5	1-5/8" (41.5mm)
CP22	7/8" (22mm)	CP44.5	1-3/4" (44.5mm)
CP25.5	1" (25.5mm)	CP48	1-7/8" (48mm)
CP28.5	1-1/8" (28.5mm)	CP51	2" (51mm)
CP30	1-3/16" (30mm)	CP75	3" (75mm)



Set of 6



Metal Cutting Bandsaws

Model BS8SW

Model BS712

- Automatic down feed stop
- Quick release vice and swivel cutting head from -45° to $+45^{\circ}$ (BS8SW)
- All ball-bearing blade guides
- All cast-iron frame and bed
- Hydraulic down feed control with infinitely variable adjustment
- Wheels allow easy movement around the workshop
- 3-speed belt drive allows machine to handle a wide range of materials



Model: BS712
(Fixed Bow)



Model: BS8SW
(Swivel Bow)

MODEL	BS712	BS8SW
Motor	750W	1.1kW
Blade Size (mm)	2360 x 20 x 0.9	2360 x 20 x 0.9
Blade Speed (m/min)	34, 41, 59, 98	24, 41, 61, 82
Bow Swivel	-	-45° - $+45^{\circ}$
Cutting Capacity at 90°	● 180mm ■ 180 x 300mm	● 205mm ■ 205 x 215mm
Cutting Capacity at 45°	● 110mm ■ 110 x 180mm	● 143mm ■ 143 x 115mm
Carton Dimensions	1260 x 460 x 1080	1230 x 650 x 820 (body) 575 x 545 x 260 (stand)
Weight (kg) - Nett / Gross	145 / 175	190 / 227



Portable Bandsaw

Model BSAW100

Suitable for steel, non-ferrous, plastics, wood etc:

- Full aluminium construction for easy, portable use
- Only 20kg weight for easy & practical transport
- Strong and sturdy enough for stable work, but small enough to fit in car or ute
- Electronic infinitely variable speed
- Solid and stable base.
- From 0° to 45° adjustable cutting angle
- No cutting lubrication required



MODEL	BSAW100
Motor	1.8kW DC
Blade Size (mm)	1140 x 13 x 0.65
Blade Speed (m/min)	20 - 70
Vice Tilt	0° - 60°
Cutting Capacity at 90°	● 100mm ■ 100 x 105mm
Cutting Capacity at 45°	● 55mm ■ 55 x 60mm
Carton Dimensions (mm)	550 x 370 x 400
Weight (kg) - Nett / Gross	20 / 21



Heavy-duty Metal Cutting Bandsaw

Model BS260

- Can replace the function of traditional cold-cut saws, but with greater capacity
- Adjustable hydraulic cylinder for automatic feed option
- Swivel head can mitre cut to 60°
- Includes blade cleaning wire wheel
- Ball bearing blade guides
- 27mm wide blade minimises run-out for more accurate cutting
- Supplied on Machine Stand with integrated coolant system



MODEL	BS260
Motor	1.1kW
Blade Size (mm)	2460 x 27 x 0.9
Blade Speed (m/min)	72
Vice Tilt	0° - 60°
Cutting Capacity at 90°	● 220mm ■ 220 x 220mm ■ 260 x 110mm
Cutting Capacity at 45°	● 150mm ■ 145 x 145mm
Cutting Capacity at 60°	● 90mm ■ 85 x 85mm
Carton Dimensions (mm)	1450 x 570 x 1040 (body) 830 x 780 x 170 (stand)
Weight (kg) - Nett / Gross	220 / 264

See page 10 for Flat Roller Stands.

Note: Spare blades available for all models.



Heavy-duty Industrial Roller Stands

Model RS-Flat

Model RS-V

- RS-Flat suitable for Bandsaws, etc
- RS-V suitable for Threading Machines, Pipe and Rod, etc



MODEL	Roller Ø mm	Nett / Gross Weight kg	Operating Height	Max Capacity kg	Measurements mm
RS-Flat	52	15.1 / 16.1	580 - 790	400	530 x 515 x 95
RS-V	52	15.6 / 16.6	580 - 790	400	515 x 515 x 95



Asada

Reciprocating Pipe Saw

Model PS165S

- Powerful 1050 W (1.5HP) electric motor.
- Variable speed switch (850 – 2,300 spm) permits cutting of wide range of materials.
- Double insulated motor and electrical overload protection assure safe operation.
- Lightweight - at only 4.3 kg makes it suitable for on-site, high or overhead jobs.
- Supplied complete with chain vice & spare blades in sturdy carry case.



MODEL	PS165S
Motor	1050W
Cutting Capacity (mm)	Ø165
Stroke Length (mm)	26
Weight (kg)	4.3



High quality Spare Blades readily available

Asada

Circular Pipe Saw

Model BS280E

- Able to cut large range of pipe sizes smoothly and easily.
- Smooth rotating roller with stopper for reverse.
- Wide opening to fit pipe.
- 2-speed (low speed for SS).

C/w 140mm TCT saw blade, cutting supports, safety glass & carrying case.



High quality Spare Blades readily available: TCT, Cermet or Diamond

MODEL	BS280E
Motor	1.75kW - 2900 / 3900 rpm
Cutting Capacity (mm)	Ø40 - 280
Max. Thickness	Steel Pipe - 10mm Plastic Pipe - 38mm
Carton Dimensions (mm)	415 x 255 x 260
Weight (kg)	9.4





Industrial Drill Presses

Model DB20

Model DP25

Model DP32

- Square tables for larger work area, with 'T' slots for solid clamping
- Tables tilt and rotate
- Solid one piece Cast Iron operating handles
- Safety Guard with flip up cover over chuck as standard
- Emergency stop switches
- Heavy-duty precision depth stops
- Quick action, positive motor adjustment for belt tensioning
- Rack & pinion table height adjustment
- Column & Quill precision machined from thick wall tube for rigidity
- Work light under head (bulb not included for transport reasons)
- Powerful 240V Aluminium TEFC motors
- Includes Drill Chuck & Arbor, Chuck Key and Drill Drift

Manufactured to a premium quality standard to suit heavy-duty applications

MODEL	DB20	DP25	DP32
Type	Bench	Pedestal	Pedestal
Motor	550W	750W	1100W
Max Drilling Capacity	20mm	25mm	32mm
Chuck Size (mm)	3 - 16	3 - 16	3 - 16
Swing (mm)	356	432	508
Spindle Taper	MT2	MT3	MT4
Spindle Travel (mm)	80	80	120
No. of Speeds	12	12	12
Speed Range (rpm)	120 - 2580	120 - 2580	150 - 2700
Overall Height (mm)	1000	1650	1710
Column Diameter (mm)	80	80	92
Quill Diameter	52	52	72
Table Dimensions (mm)	290 x 290	345 x 345	475 x 425
Carton Dimensions	840 x 570 x 290	1440 x 650 x 320	1475 x 650 x 350
Weight (kg) - Nett / Gross	82 / 86	108 / 117	143 / 153

BRAMLEY

Drill Drift

Model DRIFT

- Spring-loaded drive action requires just one hand to operate. Tap, tap and the drill is safely out
- Hand-made from high strength bronze casting, complete with hammer head for other jobs



Model DP25



Model DB20



Model DP32



Heavy-duty Bench Grinders

Model BG6 - 150mm

Model BG8 - 200mm

Model BG10 - 250mm

The Linishall Heavy-duty Industrial Bench Grinder is the first choice for all applications where reliability, long-life and usability are important. Unique adjustable eyeshields with magnifying glass assist in safe, accurate finishing or roughing of all types of componentry, tooling, etc.

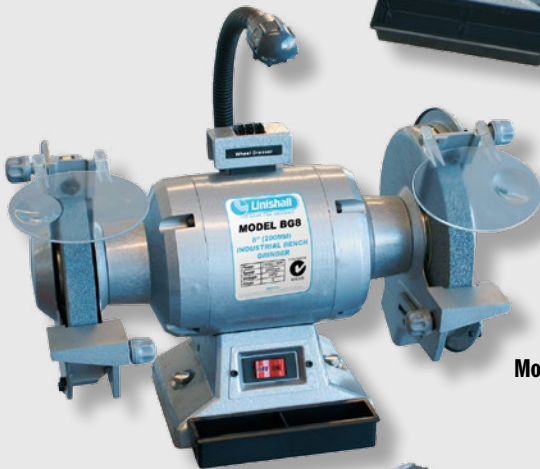
Optional additions include a pedestal stand, belt and disc grinding attachment and a mitre table.

- Wheel dresser
- Adjustable oval eyeshields with magnifying glass
- Cast metal tool rests
- Adjustable work light
- Pre-loaded bearings (no end play)
- 2850 rpm
- Heavy sheetmetal wheel guards

C-Tick Approval



Model: BG6



Model: BG8



Model: BG10

MODEL	Grinding Wheel Dia.	Motor	Shaft Dia. (Wheel Bore)	Thread (Nut)
BG6	150mm (6")	450W (0.6HP)	12.7mm (1/2")	M12 x 1.75
BG8	200mm (8")	750W (1.0HP)	16mm (5/8")	M16 x 2.0
BG10	250mm (10")	900W (1.2HP)	19.5mm (3/4")	M18 x 2.5



Combined Wheel & Belt Grinders

- Supplied fully assembled
- Can be fitted on Pedestal for a complete package

Model BG8/915

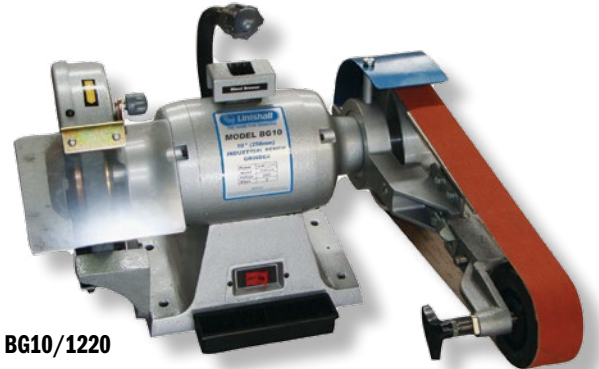
- Model BG8/915 consists of a 915 Belt & Disc Grinding Attachment fitted to the Linishall 8" (200mm) Heavy Duty Bench Grinder



Model: BG8/915

Model BG10/1220

- Model BG10/1220 consists of a 1220 Belt Grinding Attachment fitted to the Linishall 10" (250mm) Heavy Duty Bench Grinder



Model: BG10/1220

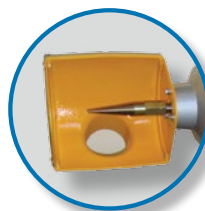


Combined Wheel & Polisher

Model BG8/GW/TS

Model BG10/GW/TS

- Consists of a Taper Spindle fitted to the Linishall 8" (200mm) Heavy Duty Bench Grinder, or the Linishall 10" (250mm) Heavy Duty Bench Grinder.
- Supplied fully assembled
- Optional Buff Guard for 8" (200mm) Grinder
- Can be fitted on Pedestal for a complete package



Optional Buff Guard.



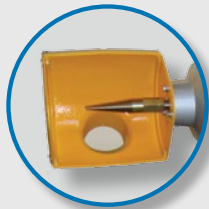


Combined Belt Grinder & Polisher

Model BG8/915/TS

Model BG10/1220/TS

- Model BG8/915/TS consists of a 915 Belt & Disc Grinding Attachment and Taper Spindle fitted to the Linishall 8" (200mm) Heavy Duty Bench Grinder
- Model BG10/1220/TS consists of a 1220 Belt Grinding Attachment and Taper Spindle fitted to the Linishall 10" (200mm) Heavy Duty Bench Grinder
- Supplied fully assembled
- Optional Buff Guard for 8" (200mm) Grinder
- Can be fitted on Pedestal for a complete package



Optional Buff Guard.

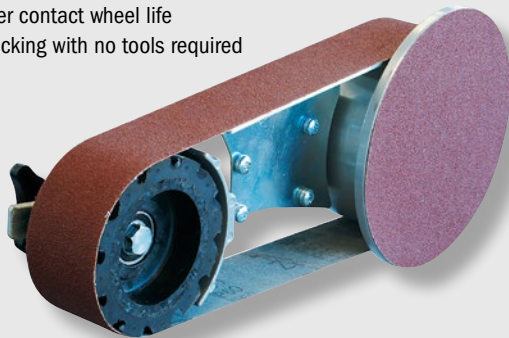


Belt & Disc Grinding Attachment

Model 915

supplied in clear blister packaging with full installation instructions.

- Fits easily to most 150mm (6") or 200mm (8") bench grinders
- Belt size: 915 mm x 50 mm (36"x2")
- Disc size: 178 mm (7")
- Rugged cast metal construction
- Simple assembly & adjustment
- Longer rubber contact wheel life
- Easy belt tracking with no tools required



Bench Grinder Accessories

Pedestal

Model BGSHEET

Suitable for mounting Linishall, and most other brands' 6" and 8" grinders.

- sheetmetal construction



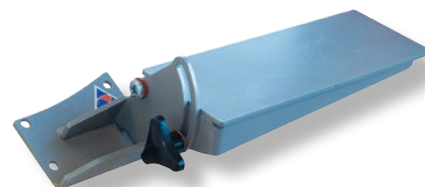
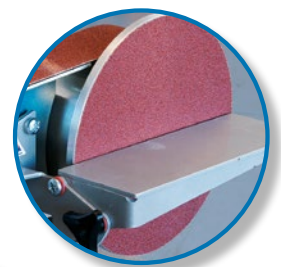
Fully featured Linishall Grinder with Belt & Disc Grinding Attachment, Pedestal and Mitre Table.

Mitre Table

Model 915TABLE

Designed to fit the Model 915 Belt & Disc Grinding Attachment

- Side tilting for stable grinding against disc.





Polisher

Model BG8BUFF

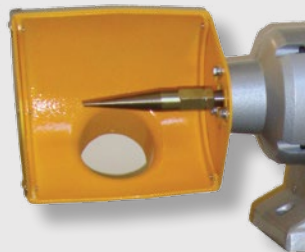
BG8 grinder fitted with Buff Guards & taper spindles to take calico mops or similar to create a polishing machine.



Buff or Polishing Guard

Model BG8-BUFFGUARD

- Suits most 200mm (8") Grinders
- Fits either RH or LH side
- Includes Dust extraction port (Does not include taper spindle shown)



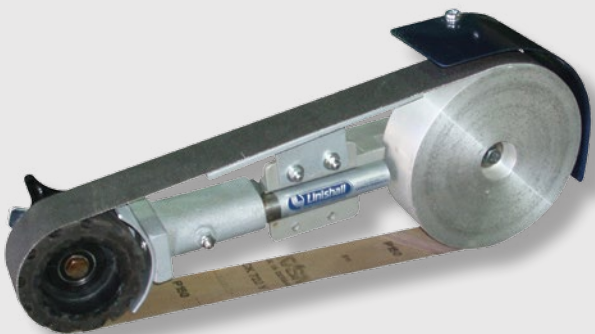
Belt Grinding Attachments

Model 1220/50

Model 1520/50

Model 1520/100

- Attaches to an electric motor (preferred) or some bench grinders
- Performance is directly related to motor power - Minimum 750 W (1 HP) recommended
- 3 common belt sizes
- Longer Rubber Contact Wheel life with air grooves for cooling
- Easy belt tracking with no tools required



MODEL	Belt Size	Contact Wheel	Drive Wheel
1220/50	1220mm x 50mm	100mm x 50 mm	175mm x 50mm
1520/50	1520mm x 50mm	100mm x 50 mm	175mm x 50mm
1520/100	1520mm x 100mm	100mm x 100 mm	175mm x 100mm



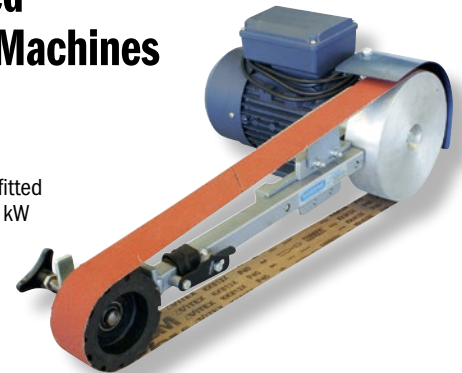
Bench-mounted Belt Grinding Machines

Model 1220/50/M1 or M3

Model 1520/50/M1 or M3

Model 1520/100/M1 or M3

- Belt Grinding Attachment fitted to a continuous rated 1.1 kW (1.5 HP) TEFC Motor
- Single or 3 Phase option as indicated by model number
- 3 common belt sizes
- Longer Rubber Contact Wheel life with air grooves for cooling.
- Easy belt tracking with no tools required



MODEL	Belt Size	Motor
1220/50/M1	1220mm x 50mm	1 Ph ~ 240V
1220/50/M3	1220mm x 50mm	3 Ph ~ 415V
1520/50/M1	1520mm x 50mm	1 Ph ~ 240V
1520/50/M3	1520mm x 50mm	3 Ph ~ 415V
1520/100/M1	1520mm x 100mm	1 Ph ~ 240V
1520/100/M3	1520mm x 100mm	3 Ph ~ 415V



Pedestal-mounted Belt Grinding Machines

Model 1220/50/P1 or P3

Model 1520/50/P1 or P3

Model 1520/100/P1 or P3

- Belt Grinding Attachment fitted to a continuous rated 1.1 kW (1.5 HP) TEFC Motor and mounted on a pedestal to form a free standing machine
- All pedestal units have IP65 rated switchgear fitted which includes thermal overload and no-volt release
- Single or 3 Phase option as indicated by model number.
- 3 common belt sizes
- Longer Rubber Contact Wheel life with air grooves for cooling
- Easy belt tracking with no tools required



MODEL	Belt Size	Motor
1220/50/P1	1220mm x 50mm	1 Ph ~ 240V
1220/50/P3	1220mm x 50mm	3 Ph ~ 415V
1520/50/P1	1520mm x 50mm	1 Ph ~ 240V
1520/50/P3	1520mm x 50mm	3 Ph ~ 415V
1520/100/P1	1520mm x 100mm	1 Ph ~ 240V
1520/100/P3	1520mm x 100mm	3 Ph ~ 415V

Grinding



Heavy-duty Linishers

Model 1220/100/P1

Model 2000/75/P1 or P3

Model 2000/150/P3

Model 2000/220/P3

- Fully guarded with hinged flap on top for platen lishing
- Front dust chute
- Rear dust extractor port
- Front eye guard
- Tool rests
- Adjustable (by swivelling about pivot point) for height
- Simple tracking & belt change
- 1 or 3 Phase options as indicated by model number
- 4 belt sizes:
 - 1220 x 100mm
 - 2000 x 75 mm
 - 2000 x 150 mm
 - 2000 x 220 mm



Model: 2000/75/P1



Model: 2000/150/P3



Model: 2000/220/P3



Model: 1220/100/P1
 Slower speed machine avoids burning softer material such as wood, plastics etc. Can also be used as a bench mounted machine by removing the included delta stand - see at left.

MODEL	Belt Size	Motor
1220/100/P1	1220mm x 100mm	1.5kW (2HP)
2000/75/P1	2000mm x 75mm	3.0kW (4HP) ~ 1Ph
2000/75/P3	2000mm x 75mm	3.0kW (4HP) ~ 3Ph
2000/150/P3	2000mm x 150mm	4.0kW (5HP) ~ 3Ph
2000/220/P3	2000mm x 220mm	4.0kW (5HP) ~ 3Ph



Abrasive (Linishing) Belts

To suit all Linishall, and most other Belt Grinders.



Sizes	915 x 50, 1220 x 50, 1520 x 50, 1520 x 100, 2000 x 75, 2000 x 150, 2000 x 220
Grits	40, 60, 80 or 120G

Abrasive Discs

Suits Linishall 915 Belt & Disc Grinding Attachment and other brands.

- 178mm (7") diameter
- Pack of 10 - 60, 80 or 120G and Mixed Grit
- Stick on or "Hook & Loop" types
- "Hook & Loop" conversion disc available



Calico Mops for Buffing & Polishing

Used in conjunction with Taper Spindles on Bench Grinders. Sizes:

- 200mm (8")
- 250mm (10")



Grinding Wheels

In medium & fine grits. To suit bench grinders:

- 150mm (6")
- 200mm (8")
- 250mm (10")



Wire Wheels

To suit bench grinders:

- 150mm (6")
- 200mm (8")
- 250mm (10")



Wheel Reducing Bush Sets

Fits in Grinding & Wire Wheels to reduce the bore to suit grinder shaft.



Taper Spindles

To take polishing & buffing mops. Models for:

- BG8 Grinder (M16 thread)
- BG10 Grinder (M18 thread)
- Other Grinders (M20 thread)
- Left Hand & Right Hand Models



MODEL	Grinder Model	Thread Size	Length
BG8-LHTS or BG8-RHTS	BG8	M16	130mm
BG10-LHTS or BG10-RHTS	BG10	M18	140mm
M20-LHTS or M20-RHTS	Others	M20	140mm



Rubber Contact Wheels

- Grooved to create air flow for natural cooling effect
- Crowned to assist belt tracking
- Large size range to fit most Linishing machines or custom applications. Can be attached to a motor, or suitably powered grinder, and used in conjunction with a Backstand Idler



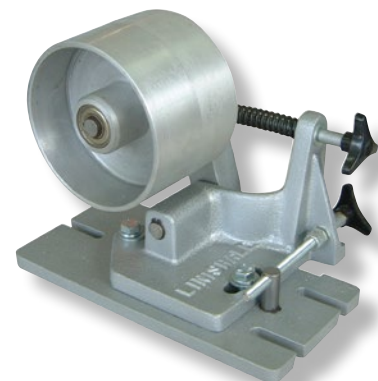
Wheel Size	Replacement Wheel only	Complete with spindle or mounting hub
100mm dia x 50mm wide (4" x 2")	RCW420	RCW421
100mm dia x 100mm wide (4" x 4")	RCW440	RCW441
150mm dia x 50mm wide (6" x 2")	RCW620	RCW625
150mm dia x 100mm wide (6" x 4")	RCW640	RCW645
175mm dia x 50mm wide (7" x 2")	RCW720	RCW725
175mm dia x 100mm wide (7" x 4")	RCW740	RCW745
200mm dia x 50mm wide (8" x 2")	RCW820	RCW825
200mm dia x 100mm wide (8" x 4")	RCW840	RCW845
122mm dia x 100mm wide (5" x 4")	RCW122/100	(Suits Linisher 1220/100)
200mm dia x 75mm wide (8" x 3")	RCW200/75	(Suits Linisher 2000/75)
200mm dia x 150mm wide (8" x 6")	RCW200/150	(Suits Linisher 2000/150)
200mm dia x 220mm wide (8" x 9")	RCW200/220	(Suits Linisher 2000/220)



Back Stand Idler

Model BS 100 - up to 100 mm belt width

- Suitable for longer belt length applications to provide cooler working and longer time between belt changes
- Floor, bench or wall mounting
- Positive tracking & tensioning adjustments



Asada

Pipe & Bolt Threading Machines

Model B50-AT (Automatic)

Model B80-AT (Automatic)

Model B100-AT (Automatic)

- Threading Machines designed to give accurate threads for most pipe and bolt (rod) applications
- BSPT, NPT, BSW, UNC, UNF, Conduit and Metric threads possible in such materials as stainless, high tensile, galvanised and mild steels
- Footswitch included on all machines for safety



Model: B50-AT



Model: B80-AT



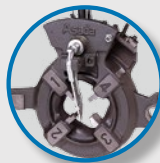
Model: B100-AT



Powerful motor



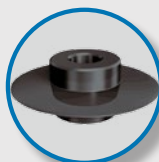
Non-slip impact clamping Hammer Chuck



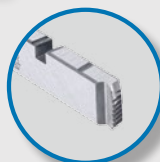
Automatic Die Head



Specially forged Reamer



Cutter Blades available for Stainless Steels



Dies available for Stainless or High Tensile Steels



Quality Pipe Cutter

MODEL	Standard Threading Capacity	Motor	Spindle Speed
Beaver 50 (Auto)	1/4" - 2" BSPT or NPT Pipe Automatic Die-Head version	Universal Single Phase 750W	40rpm (No load)
Beaver 80 (Auto)	1/4" - 3" BSPT or NPT Pipe Automatic Die-Head version	Universal Single Phase 1140W	33rpm (No load)
Beaver 100 (Auto)	1/4" - 4" BSPT or NPT Pipe Automatic Die-Head version	Universal Single Phase 1140W	48 / 18rpm (2 Speed)

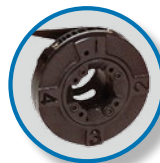
Note: all machines supplied as standard with all dies & dieheads from 1/2" BSPT up to capacity, cutter, reamer, threading oil and tubular legs. Dieheads and dies for 1/4" - 3/8" BSPT, NPT, Conduit and all bolt sizes are available as optional extras.

Asada

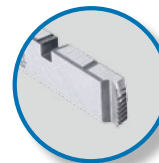
Rod/Bolt Threading Machine

Model BTM1

- Dedicated machine designed specifically for threading bolt and rod
- Faster spindle speed than Pipe Threading Machines
- Rod is held in vice to allow threading of long lengths or bent material



Die Heads available for left hand threading



Dies available for Stainless or High Tensile Steels



Oil lubrication system and 4 jaw vice clamping

MODEL	Standard Threading Capacity	Motor size	Spindle Speed
No.1 (BTM1)	8mm -24mm	Universal Single Phase 650W	100rpm (No load)

Note: supplied as standard with M12 and M14 - M16 dies.

SUPER EGO

Portable Power Pipe Threaders

Model 8638806 (1/2" - 1.1/4")

Model 8642202 (1/2" - 2")

- Designed for versatile power threading without a vice.
- Suitable for "on-site" applications
- Threads at 15-25 rpm with 60 rpm geared reverse
- Die-Heads & Dies are the same as Hand Ratchet Threaders
- All sets supplied in a robust carrying case



Power Pipe Threader in carrying case



MODEL	Description	Die-Heads Supplied
#8632206	1/2" - 1-1/4" BSPT 240V	1/2", 3/4", 1", 1.1/4"
#8642202	1/2" - 2" BSPT 240V	1/2", 3/4", 1", 1.1/4", 1.1/2", 2"

See page 26 for Pressure Test Pumps.



Hand Ratchet Threader Sets

- Model 6002409 (1/2" - 1")
- Model 6002206 (1/2" - 1 1/4")
- Model 6002302 (1/2" - 2")

- Designed for portability and easy threading in tight spaces
- Quality HSS Dies.
- Die-Heads are interchangeable with most leading brands of Hand Ratchet Threaders and hand held Power Threaders
- All sets supplied in a robust carrying case



MODEL	Die-Heads Supplied
#6002409 1/2" - 1" BSPT Set	1/2", 3/4", 1"
#6002206 1/2" - 1-1/4" BSPT Set	1/2", 3/4", 1", 1-1/4"
#6002302 1/2" - 2" BSPT Set	1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

Model: 6002302
1/2" - 2" version shown

Asada Roll Groover

Model RG6

- Compact, durable and efficient lightweight roll grooving attachment
- Fits to most Threading Machines including Portable Power Threaders (*machine must be specified to allow correct base plate to be included*)
- Up to 6" N.B. pipe capacity
- Easy operation with ergonomic handle to apply pressure to wheels



Asada Neat Threading Oil

- Part No. SP-OIL5 (Standard - 5 L)
- Part No. SP-OIL20 (Standard - 20 L)
- Part No. SP-OIL5HT (High Grade - 5 L)
- Part No. SP-OIL20HT (High Grade - 20 L)

- Essential for long die life.
- Includes ingredients to handle the high pressures generated during threading operation
- Standard grade for general purpose threading
- High grade for threading stainless and high tensile steels



5 L container



20 L container

Asada

Reciprocating Pipe Saw

Model PS165S

- Powerful 1050 W (1.5HP) electric motor.
- Variable speed switch (850 - 2,300 spm) permits cutting of wide range of materials
- Double insulated motor and electrical overload protection assure safe operation
- Light weight - at only 4.3 kg makes it suitable for on-site, high or overhead jobs
- Supplied complete with chain vice & spare blades in sturdy carry case



High quality Spare Blades readily available

Asada

Spare Dies

- Many sizes available: BSPT, NPT, BSPS, Conduit, BSW, Metric, UNC, UNF
- Made from special pre heat-treated steel, ensuring long life and easy threading
- Available in two grades - Alloy for general purpose threading such as black or galvanised pipe & rod and HSS for stainless steels and high tensile steels
- The life of the dies is greatly affected by the quality of cutting oil used... Asada Threading Oil is strongly recommended

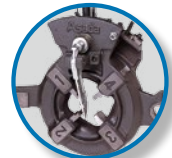


Dies to suit Asada Threading Machines

Spare Die Heads

For pipe, rod and bolt threading machines in all sizes.

- BSPT, NPT, BSW, UNC, UNF, Conduit and Metric threads



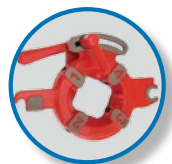
Automatic Die-Head for Pipe Machines



Bolt Die Head for Pipe Machines



Bolt Die Head for Bolt Machine



Manual Die Head for Pipe Machines



Pipe Stand

Model RS-V

For supporting material that is being worked on, especially long lengths.



MODEL	Roller Ø mm	Nett / Gross Weight kg	Operating Height	Max Capacity kg
RS-V	52	15.6 / 16.6	580 - 790	400



Round Webbing Slings

- Round Slings manufactured to A.S. 4497.1 - 1997 - Safety Factor 7:1
- WLL (Working Load Limit) is clearly marked on each sling
- Each sling is colour coded to WLL for safety
- Test Certificate supplied with every sling



ROUND SLINGS		
WLL	Length	Part No.
1,000 kg	0.5m	GRS1T0.5M
	0.75m	GRS1T0.75M
	1m	GRS1T1M
	1.5m	GRS1T1.5M
	2m	GRS1T2M
	2.5m	GRS1T2.5M
	3m	GRS1T3M
	3.5m	GRS1T3.5M
	4m	GRS1T4M
	5m	GRS1T5M
6m	GRS1T6M	
2,000 kg	0.5m	GRS2T0.5M
	1m	GRS2T1M
	1.5m	GRS2T1.5M
	2m	GRS2T2M
	2.5m	GRS2T2.5M
	3m	GRS2T3M
	3.5m	GRS2T3.5M
	4m	GRS2T4M
	5m	GRS2T5M
	6m	GRS2T6M
3,000 kg	1m	GRS3T1M
	1.5m	GRS3T1.5M
	2m	GRS3T2M
	2.5m	GRS3T2.5M
	3m	GRS3T3M
	3.5m	GRS3T3.5M
	4m	GRS3T4M
	5m	GRS3T5M
	6m	GRS3T6M

ROUND SLINGS			
WLL	Length	Part No.	
4,000 kg	1m	GRS4T1M	
	1.5m	GRS4T1.5M	
	2m	GRS4T2M	
	2.5m	GRS4T2.5M	
	3m	GRS4T3M	
	4m	GRS4T4M	
	5m	GRS4T5M	
	6m	GRS4T6M	
	5,000 kg	1m	GRS5T1M
		1.5m	GRS5T1.5M
2m		GRS5T2M	
2.5m		GRS5T2.5M	
3m		GRS5T3M	
3.5m		GRS5T3.5M	
4m		GRS5T4M	
5m		GRS5T5M	
6m		GRS5T6M	
6,000 kg		3m	GRS6T3M
	4m	GRS6T4M	
	6m	GRS6T6M	
	8,000 kg	4m	GRS8T4M
10,000 kg	6m	GRS8T6M	
	4m	GRS10T4M	
	6m	GRS10T6M	
	8m	GRS10T8M	
	10m	GRS10T10M	

We are constantly adding to our range of Round and Flat Sling sizes in accordance with demand. The tables below show sizes at time of printing

Flat Webbing Slings

- Flat Slings manufactured to A.S. 1353 Parts 1&2 1990 - Safety Factor 8:1
- WLL (Working Load Limit) is clearly marked on each sling
- Each sling is colour coded to WLL for safety
- Test Certificate supplied with every sling



FLAT SLINGS		
WLL	Length	Part No.
1,000 kg	1m	GFS1T1M
	2m	GFS1T2M
	3m	GFS1T3M
	4m	GFS1T4M
	5m	GFS1T5M
	6m	GFS1T6M
2,000 kg	1m	GFS2T1M
	2m	GFS2T2M
	3m	GFS2T3M
	4m	GFS2T4M
	5m	GFS2T5M
	6m	GFS2T6M

FLAT SLINGS		
WLL	Length	Part No.
3,000 kg	1m	GFS3T1M
	2m	GFS3T2M
	3m	GFS3T3M
	4m	GFS3T4M
	5m	GFS3T5M
	6m	GFS3T6M
4,000 kg	2m	GFS4T2M
	3m	GFS4T3M
	4m	GFS4T4M
	5m	GFS4T5M
	6m	GFS4T6M
	5,000 kg	2m
3m		GFS5T3M
4m		GFS5T4M
5m		GFS5T5M
6m		GFS5T6M
8m		GFS5T8M



Heavy-duty Ratchet Tie Downs

- Heavy duty Ratchet Tie Down assemblies for securing loads safely with minimum effort
- Complete with straps hooks and keepers
- Comply with AS/NZS 4380.2001
- Sizes: 0.75T - 25mm x 5 metre (P/N: GRTD25-0.75T)
1.5T - 35mm x 6 metre (P/N: GRTD35-1.5T)
2.5T - 50mm x 9 metre (P/N: GRTD50-2.5T)



GARRICK LIFTING EQUIPMENT

Chain Blocks

Models from 0.25 T to 10 T and 2 m to 6 m lift

- Robust all steel construction
- Super strength alloy steel chain
- All hooks fitted with spring safety latch
- Durable stainless steel labels
- Test Certificate and Instruction Manual supplied with every Chain Block
- Comply with AS/NZS1418.2
- Meet or exceed other International Standards such as GS, CE & ANSI

MODEL	Size	Lift
GCB0022	0.25T	2 m
GCB0053	0.5T	3 m
GCB0056	0.5T	6 m
GCB0103	1T	3 m
GCB0106	1T	6 m
GCB0203	2T	3 m
GCB0206	2T	6 m
GCB0503	5T	3 m
GCB0506	5T	6 m
GCB1003	10T	3 m
GCB1006	10T	6 m



0.25T / 2m

1.0T / 3m

We can re-chain any block or hoist to any length of lift required

GARRICK LIFTING EQUIPMENT

Lever Hoists

Models from 0.25 T to 6 T with 1.5m lift

- Robust all steel construction
- Super strength alloy load chain - 1.5T, 3T & 6T models fitted with grade 100 chain
- All hooks fitted with spring safety latch
- Durable stainless steel labels
- Test Certificate and Instruction Manual supplied with every Lever Hoist
- Comply with AS/NZS1418.2
- Meet or exceed other International Standards such as GS, CE & ANSI

MODEL	Size	Lift
GLH025	0.25T	1.5 m
GLH050	0.5T	1.5 m
GLH075	0.75T	1.5 m
GLH150	1.5T	1.5 m
GLH300	3T	1.5 m
GLH600	6T	1.5 m



0.75T / 1.5 m

0.25T / 1.5 m

GARRICK LIFTING EQUIPMENT

Girder Trolleys

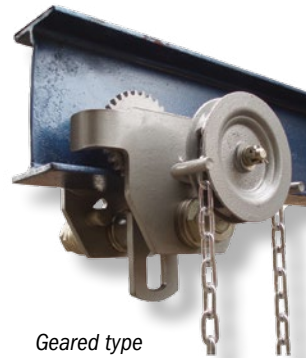
Models from 1 T to 10 T

- Robust all steel construction
- Adjustable to various beam widths
- Durable stainless steel labels
- Test Certificate and Instruction Manual supplied with every Trolley
- Comply with AS/NZS1418.2
- Meet or exceed other International Standards such as GS, CE & ANSI



Push type

MODEL	Size	Style	Beam
GPT005	0.5T	Push	64-152mm
GPT010	1T	Push	64-210mm
GPT020	2T	Push	88-210mm
GPT030	3T	Push	102-210mm
GPT050	5T	Push	114-210mm
GPT100	10T	Push	125-210mm



Geared type

MODEL	Size	Style	Beam
GGT010	1T	Geared	64-210mm
GGT020	2T	Geared	88-210mm
GGT030	3T	Geared	102-210mm
GGT050	5T	Geared	114-210mm
GGT100	10T	Geared	125-210mm

GARRICK LIFTING EQUIPMENT

Girder Clamps

Models from 1 T to 10 T

- Robust all steel construction
- Durable stainless steel labels
- Test Certificate and Instruction Manual supplied with every Clamp
- Comply with AS/NZS1418.2
- Meet or exceed other International Standards such as GS, CE & ANSI



MODEL	Size	Beam
GGC010	1T	75-230mm
GGC020	2T	75-230mm
GGC030	3T	80-320mm
GGC050	5T	90-320mm
GGC100	10T	80-320mm

Universal Plate Clamps

Models from 0.5 T to 5 T

- Robust all steel construction
- Durable stainless steel labels
- Test Certificate and Instruction Manual supplied with every Clamp
- Comply with AS/NZS1418.2
- Meet or exceed other International Standards such as GS, CE & ANSI



MODEL	Size	Opening
GVC005	0.5T	0 - 15mm
GVC010	1T	0 - 20mm
GVC020	2T	0 - 25mm
GVC030	3T	0 - 30mm
GVC050	5T	0 - 50mm

Articulated knuckle on eye permits plate to be laid flat



IREGA are a specialist manufacturer of adjustable wrenches ONLY, and have machinery and technology dedicated to making products of the highest quality



Chrome Adjustable Wrenches Model 77 - Traditional Design

Sizes from 4" to 30"

- Manufactured in Spain exceeding the highest standards including ISO 6787, DIN 3117, BS 6333, ASME B107.8M
- Perfectly parallel jaw surfaces ensure grip of nut
- Precision ground jaw slides provide smoother action and accurate adjustment of jaw and handle
- Chrome finish
- Triple coated (2 Ni + 1 Cr) for perfect chrome adherence and maximum rust resistance

MODEL	Size	Jaw Opening
7704	4" 100mm	13mm
7706	6" 150mm	19mm
7708	8" 200mm	24mm
7710	10" 250mm	29mm
7712	12" 300mm	34mm
7715	15" 375mm	43mm
7718	18" 450mm	53mm
7724	24" 600mm	62mm
7730	30" 760mm	78mm



Black Adjustable Wrenches Model 99 - Ergonomic Design

Sizes from 4" to 18"

- Non-protruding jaw shank
- Made from Chrome Vanadium steel permitting closer heat treatment tolerance of thin sections
- Thinner and longer jaws for greater accessibility in tight spaces
- Metric measuring scale on jaws for presetting and sizing of nuts, bolts etc.
- Ergonomic handle

MODEL	Size	Jaw Opening
9904	4" 100mm	13mm
9906	6" 150mm	19mm
9908	8" 200mm	24mm
9910	10" 250mm	29mm
9912	12" 300mm	34mm
9915	15" 375mm	43mm
9918	18" 450mm	53mm



Black Adjustable Wrenches Model 77 - Traditional Design

Sizes from 4" to 24"

- Manufactured in Spain exceeding the highest standards including UNE 16-532, ISO 6787, DIN 3117, ASME B107.8M
- Perfectly parallel jaw surfaces ensure grip of nut
- Precision ground jaw slides provide smoother action and accurate adjustment of jaw and handle
- Black Phosphate finish

MODEL	Size	Jaw Opening
B7704	4" 100mm	13mm
B7706	6" 150mm	19mm
B7708	8" 200mm	24mm
B7710	10" 250mm	29mm
B7712	12" 300mm	34mm
B7715	15" 375mm	43mm
B7718	18" 450mm	53mm
B7724	24" 600mm	62mm



Model 92 Wrenches

Sizes from 4" to 18"

First 22° 30' adjustable wrench with non-protruding jaw shank

- Wider jaw opening than traditional models
- Non-protruding jaw shank
- Perfectly parallel jaw surfaces ensure correct grip on nuts
- Chrome Vanadium steel - great resistance, minimum wear, unbeatable durability
- Thinner and longer jaws for greater accessibility in tight spaces
- Triple coated chrome finish
- Metric measuring scale on jaws for presetting and sizing of nuts, bolts etc
- Ergonomic handle design makes work easier and more efficient

MODEL	Size	Jaw Opening
9204	4" 100mm	13mm
92W06	6" 150mm	24mm
92W08	8" 200mm	30mm
92W10	10" 250mm	34mm
92W12	12" 300mm	39mm
92W15	15" 375mm	43mm
92W18	18" 450mm	53mm



SWO Adjustable Wrenches

- Super Wide Opening

Sizes: 6" and 8"

- Compact handle with large head capacity for where accessibility is a problem (e.g. Plumbing or Automotive), or where light weight is an advantage such as Maintenance applications
- 6" SWO opens up to 1.3/8" (35mm), 8" SWO opens up to 1.1/2" (38mm)
- Non-protruding jaw shank
- Replaceable Rubber Grip prevents damage to adjacent surfaces in confined spaces and allows more comfortable application of greater force on its shorter handle
- Longer, thinner Jaws for greater accessibility
- Made from Chrome Vanadium steel
- **Ideal for Maintenance, Plumbing, Automotive etc**

Model	Size	Jaw Opening	Packaging
SWO-06	6" 150mm	35mm	Bulk
SWO-06-BL	6" 150mm	35mm	Blister
SWO-08	8" 200mm	38mm	Bulk
SWO-08-BL	8" 200mm	38mm	Blister



Ideal for use in confined spaces.



Lightweight and compact adjustable wrench. Always handy: anytime, anywhere.



Blister Packaging.



Available in Bulk Counter Top Merchandiser with 6 x 6" and 6 x 8" wrenches.



1000V Insulated Adjustable Wrenches

Sizes from 6" to 12"

- For work on voltage up to 1,000V AC or 1,500V DC
- Each individual insulated wrench is submitted to a high voltage test according to the EN-60900 Standard (equivalent IEC-900). That is, 10,000 Volts for 10 seconds, and only those that pass the test are accepted
- The handles are insulated with "plastisol" material made of three layers of different colours to warn of danger due to damage - Red (Guaranteed), Orange (Caution) & Yellow (Danger)
- Available in sizes of 6" (150mm), 8" (200mm), 10" (250mm) & 12" (300mm)

Important: Insulated adjustable wrenches cannot be homologated to VDE standards because the part used for adjustment (the knurl) cannot be insulated. Consequently, complete user's security cannot be guaranteed

MODEL	Size
INS-06	6" 150mm
INS-08	8" 200mm
INS-10	10" 250mm
INS-12	12" 300mm



ErgoTop Adjustable Wrenches

With Replaceable Rubber Grip

Sizes from 6" to 12"

- ErgoTop is the world's first adjustable wrench that allows the professional to replace the ergonomic rubber grip, if necessary
- Even without the replaceable grip, the core is still the same internationally known IREGA Model 99 adjustable wrench
- Available in sizes: 6" (150mm), 8" (200mm), 10" (250mm) 12" (300mm)
- Manufactured according to the most stringent International Standards and exceeding UNE 16-532, ISO 6787, ASME B107.8M, BS ISO 6787 and DIN 3117



MODEL	Size	Jaw Opening
E9906	6" 150mm	19mm
E9908	8" 200mm	24mm
E9910	10" 250mm	29mm
E9912	12" 300mm	34mm



Pipe Wrenches

Sizes from 8" to 48" – Heavy-duty / Aluminium / Offset Aluminium

- **Heavy Duty Pipe Wrench (102 series)**
High strength construction with large capacity jaws and induction hardened teeth to retain sharp edge
- **Aluminium Pipe Wrench (104 series)**
Features & capacities similar to Heavy Duty Pipe Wrench, but 40% lighter due to aluminium alloy handle construction
- **Offset Aluminium Pipe Wrench (105 series)**
Exceptionally strong, yet ultra light. Ideal for use in confined space such as when pipe is against a wall
- **Spare Parts**
– Such as replacement hook & heel jaws, etc readily available
Parts interchange between models of same size and also suit many opposition brands

Size	Heavy Duty Pipe Wrench	Aluminium Pipe Wrench	Offset Aluminium Pipe Wrench
8"	1020800	-	-
10"	1021000	1041000	-
12"	1021200	-	-
14"	1021400	1041400	1051400
18"	1021800	1041800	1051800
24"	1022400	1042400	-
36"	1023600	1043600	-
48"	1024800	1044800	-



Steel Pipe Cutters

3 sizes for 1/8" to 4" steel pipe

Precision drop forged steel construction for easy burr-free cutting

- Heavy duty steel body
- Large handle for easy size adjustment
- Dual guide rollers for all pipe sizes
- Spare cutter wheels available

MODEL	Capacity
7010100	1/8" - 1-1/4"
7010200	1/8" - 2"
7100400	1.1/4" - 4"



Tube Cutters

Mini Tube Cutters

Fully adjustable precision tube cutting in limited space.

- Sizes: 1/8" to 1.1/8"

MODEL	Description	Capacity
7162000	Minicut No.1 Pro	1/8" - 5/8" O.D.
7222000	Minicut No.2 Pro	1/8" - 7/8" O.D.
Heavy duty compact tube cutters with large adjusting wheel.		
7221000	Minicut 2000 Tube Cutter	1/8" - 7/8" O.D.
7280000	Minimax Tube Cutter	1/8" - 1.1/8" O.D.



Minicut Tube Cutter



Minicut 2000 Tube Cutter

Pro Tube Cutters

Traditional design with spare wheel and fold-out reamer.

- Sizes: 1/8" to 2"

MODEL	Description	Capacity
7252000	No.30 Pro Tube Cutter	1/8" - 1.1/8" O.D.
7260000	No.50 Pro Tube Cutter	1/2" - 2" O.D.



Telescopic Tube Cutters

Stable telescopic tube cutter for exact cutting of tubes.

- For copper, brass, aluminium and thin-walled steel tubes.
- Constant, tight working radius of 123 mm (No. 35)
- Exact telescopic guide: Precise cut
- Extremely easy turning of the adjustment knob:
- Two guide rollers with recess
- Retractable tube internal deburrer:
- Spare cutter wheel in handle:
- Sizes: 1/4" to 1.5/8"

MODEL	Description	Capacity
7350000	No.35 Tube Cutter	1/4" - 1.3/8" O.D.
74200ZB	No.42 Pro Tube Cutter	1/4" - 1.5/8" O.D.



Automatic Tube Cutters

Spring-loaded action for instant change in tube sizes (Will also cut plastic tube with alternative wheel - see below)

- Sizes: 1/4" to 5"

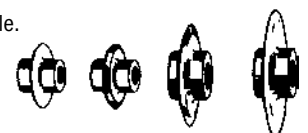
MODEL	Description	Capacity
7500000	Automatic Tube Cutter No.1	1/4" - 2.5/8" O.D.
7510000	Automatic Tube Cutter No.2	2" - 5" O.D.



Tube Cutter Wheels and Spares

Full range of replacement cutter wheels available.

- Copper cutter wheels
- Plastic cutter wheels
- Steel cutter wheels
- Stainless Steel (INOX) cutter wheels



Contact us for specific sizes.



Tube Benders

Pro-Bend Tube Benders

- Easier and more accurate to use
- Offset handles and grips for ultimate comfort
- Angle markings for reference to 180°
- Will bend hard drawn copper



Universal Tube Benders

Individual precision benders for tube bending to 180°.



Minibender

Compact precision bender for tube bending to 180°

- 3 sizes in one tool:
1/4", 5/16", 3/8" O.D.



Size	Minibender	Universal Tube Bender	Pro-Bend Tube Bender
1/4", 5/16", 3/8" O.D.	7610200	-	-
1/4"	-	7600100	-
5/16"	-	7600800	-
3/8"	-	7600200	-
1/2"	-	-	7670500
5/8"	-	7601600	-
3/4"	-	-	7677500

Refer to page 4 and 5 for Manual & Electric Tube Bending Machines



Deburrers

Pencil Deburrer

For deburring edges, tubular and sheet materials. Small and handy, ideal for carrying about. Blade can be swivelled to match material contours.

- Part No. 107052 with HSS all-purpose blade



HSS Deburrer

For quick deburring of edges, tubular and sheet materials.

- Replaceable blade and plastic handle
- Part No. 107050 with No.1 blade



Spare Deburrer Blades

- Part No. 21652 Pkt 10
No.1 HSS general purpose blade



Internal/External Deburrer

For the rapid removal of both internal and external burrs.

- Part No. 11006N 1/8"-1.3/8" O.D.



Flaring Tools

Universal Flaring Tool

Unique self-adjusting flaring tool for flaring any tube size from 3/16" to 5/8" O.D. Compact and easy to use, with innovative tube holding mechanism.

- Part No. 222601SE (3/16" to 5/8")



Standard Flaring Tool

For 45° single flares on copper, brass, aluminium and precision steel tube up to 1mm wall thickness.

- Hardened flare cone for high quality flares
- Self-centering clamp
- Tubing will not slip
- Part No. 4910000 (3/16" to 5/8")
Part No. 4930000 (3/16" to 3/4")



Double Flaring Tool Kit

For 45° single or double flares on copper, brass, aluminium and precision steel tube up to 1mm wall thickness.

- Set includes a Standard Flaring Tool (4910000), 7 double flare attachments and a No.30 Pro tube cutter (7252000).
- Also suitable for hydraulic / pneumatic and automotive applications
- Part No. 4910300 (3/16" to 5/8")



Pro Flaring Tool

For the production of 45° precision single flares. Heavy-duty handle and spindle with eccentric flaring cone and roller bearings, for smooth and easy flaring of heavy gauge and high pressure gas lines.

- Includes case and adaptor for the tool to be used with a ratchet or power tool
- Part No. R222402SE (1/8" to 3/4")



Tube Expander Set

Precision capillary socket forming tools for the production of end feed soldered joints in copper tube without fittings. All sets are complete with steel case and a deburring tool.

- Part No. 11135XS (1/2", 3/4" & 1" O.D.)
- Additional Expander Heads from 3/8" to 1.1/2" available





Pliers

Machined Groove Pliers

With interlocking anti-slip action and induction hardened teeth.

MODEL	Size
5090900	9.1/2"
5091200	12"
5091600	16"



Self Adjusting Pliers

With spring action for rapid gripping of all pipes and nuts. Automatically sizes to the object, removing the need for manual setting.

MODEL	Size
5251000	10"



Super Fast-lock Pliers

New push button locking multigrip that locks in place at the push of a button. 12 size adjustments & slim jaw for access in tight spaces.

MODEL	Size
5271000	10"



Multi-grip Pliers

Drop forged from chrome vanadium steel. Red finish.

MODEL	Size
5200700	7"
5241000	10"
5241200	12"



End Nippers

- Concreter's Nippers

Standard action Nippers with long handles for easy use.

MODEL	Size
5070900	9"
5071000	10"



Plastic Pipe Shears

Professional Pipe Shears

Rugged precision shears for effortless cutting of plastic pipes. Designed for waste pipe, PP, PE, PEX, PB & PVDF.

MODEL	Size
5680600	0 - 26mm
5684000	0 - 32mm
5680200	0 - 42mm
5680500	0 - 50mm
5686300	0 - 63mm
5687500	0 - 75mm



Model: 5680600

Replacement blades available.

Ratchet Pipe Shears

Ratchet action cutters provide a fast, clean square cut in most types of plastic pipe including MDPE, PE, PP, PB and PEX.

MODEL	Size
55090N	0 - 32mm
55091N	0 - 42mm
55095N	0 - 63mm



Model: 55090N

Replacement blades available.



Chain & Strap Wrenches

Strap Wrench

High strength aluminium alloy construction with nylon strap for positive grip without marking surfaces.

- Part No. 1080200 (1" - 8")



Chain Wrenches

Reversible Chain Wrench

High strength positive grip for tightening and loosening without removal of chain.



Heavy-duty Chain Wrench

Designed for the most demanding jobs. Double-sided head and quick-release action.



Size	Reversible Chain Wrench	Heavy Duty Tongue Chain Wrench
2-1/2"	-	1033100
4"	1071200	1033200
6"	-	1033300



Soldering & Brazing Equipment

Brazing Torches

A range of brazing torches are available.



MAPP Disposable Gas Cylinders

Industrial grade gasses in tough impact resistant disposable steel cylinders (also suitable for other brand appliances with similar thread and valve connection).

- Part No. 35663C 399.7g



Inspection Cameras & Drain Cleaning Machines

Full details on request

Pipe and Drain Inspection Cameras

ROCOM® Mobile / PDM – Colour drain inspection cameras with Duo-Power and image capture. For hollow spaces and drains from \varnothing 50mm to 300mm.



Electric Drain Cleaning Machines

Exceptionally powerful drain cleaning machines requiring only one man operation.



Pressure Test Pumps

Asada Model TP50S (manual)

- Durable and reliable precision engineered unit for accurately testing all tube/pipe systems and pressure vessels when used with oil or water
- Hand operated version
- Accurate readings up to 50 bar (700 psi)



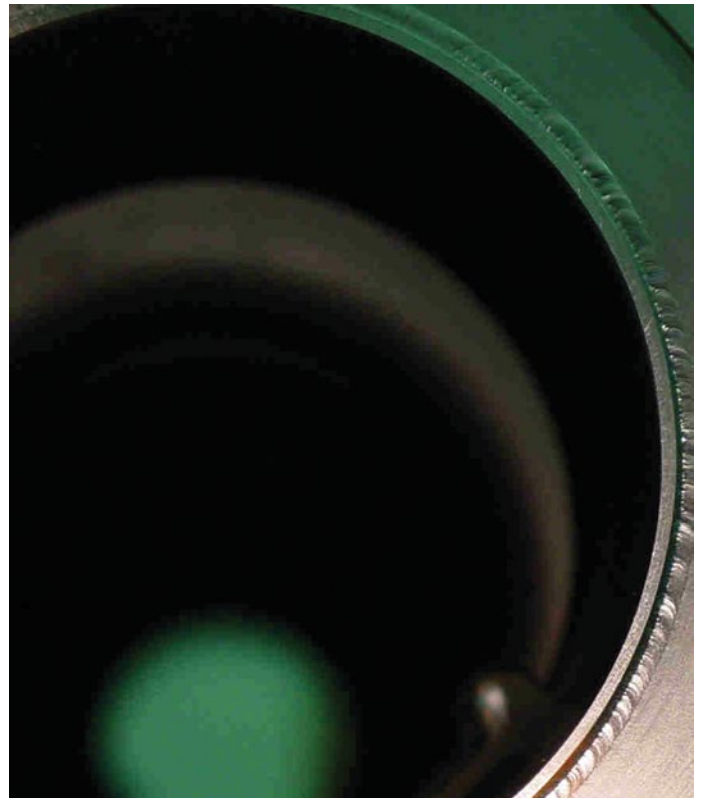
Super Ego Model RP 50-S (manual)

Durable, precision unit for accurately testing all tube/pipe systems & pressure vessels. Working parts rust-proofed, 12L tank is galvanised, epoxy coated.

- Large capacity pressure testing pump
- Double check valves with stainless steel ball seats
- Accurate readings up to 60 bar / 870 psi
- 12 litre tank capacity.
- Part No. 60200SE



Electric Pressure Test Pumps also available. Details on request.



Please refer to separate Super Ego Catalogue for the full range.



Natural Zeolite Absorbent

A natural absorbent for use with oil, petroleum and chemical spills of liquid and vapour

P/N: FXZEO-10 - 15 Litre (10kg) bags

P/N: FXZEO-15 - 22 Litre (15kg) bags

Zeolite is a rock type absorbent for use with oil, petroleum and chemical spills of liquid and vapour. It is a natural product formed due to intense volcanic activity about 250,000 years ago.

Due to its large internal surface area, it is faster acting & absorbs larger quantities than most other "kitty litter" types of absorbent. Its high Cation Exchange Capacity allows vapour and odour absorbency.

Being a light weight clay, it is easy to handle, but not too light that it can't be used in windy or draughty outdoor conditions.

- Universal Absorbent
- Fast Acting
- 100% Natural
- Workplace & Ecology Safe
- Absorbs liquids, vapours and odours
- Carefully screened particle size for maximum surface area contact with spill
- 22 Litre bag weighs 15 kg to comply with OH&S safe lifting requirements



EverSoak™

Absorbent Pads

Manufactured in USA from recycled fibres
Double the absorbency of most other pads

- Due to the extra thickness of Eversoak Absorbent Pads, independent tests have shown them to have double the fluid absorption capacity of competitors' general purpose pads.
- Made with 80% recycled cellulose fibers to create superior absorbency and a more cost effective alternative than oil based polypropylene sorbent pads.
- Class A fire retardant (lab tested per ASTM E84).
- Absorbs oil, water, grease, transmission fluid, coolants, and many other fluids.



MODEL	Pad Size	Absorption Capacity	Qty per Carton
FXPAD	380 x 480 mm	1.5 Litres of oil	50



Universal Organic Absorbent

An eco-friendly, fast acting, high absorbency coir product for safe and efficient cleanup of liquid spills

Spillfix can absorb up to 5 times its own weight in liquids. It is faster acting than other absorbents - absorbing 90% capacity in under 10 minutes.

- Coir is a natural and renewable resource that is free of any chemicals and toxins, produced as a by-product when coconut husks are processed
- The coir is washed, heat treated, screened and graded to a unique absorbent specification before being packed
- Spillfix Universal Organic Absorbent is consistent and uniform in texture and is a completely homogenous material composed of millions of capillary micro-sponges



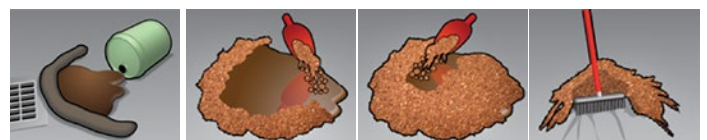
- It demonstrates a preference for hydrocarbons (e.g. oil) over water and will remove hydrocarbons from an oil / water emulsion making it suitable for emergency road response application
- Spillfix is a highly stable absorbent that is suitable for use in a wide range of hazardous spill applications including acids & caustics. The inert nature of the media does not cause any reaction with unstable liquid chemicals
- It has been tested to the USEPA Leachate standards for landfill disposal (always check with local authorities). It is biologically stable and free of harmful micro-organisms. When absorbed media is disposed of, it provides a perfect environment for the development of bio-degrading organisms that can oxidise contaminated waste

ABSORBENCY COMPARISONS		
Absorbent	by Mass	by Volume
Spillfix (coir)	295%	67%
Diatomite (clay) ("Kitty Litter" type)	40%	27%



SpillFix Universal Organic Absorbent works faster and absorbs more than most other absorbents.

Simple to Use and Clean-Up



Identify and isolate spill. Always follow workplace procedures for clean-up and disposal.

Apply absorbent to the perimeter of the spill to form a bund and stop spill migration.

Continue to apply absorbent working to the centre until spill is completely covered and no free liquid is visible.

Sweep with a stiff broom working dry material over spill area to remove all surface oil. Dispose of in accordance with local regulations

MODEL	Size	Weight per Bag	Qty per Pallet
FX15L	15 Litre Bag	3 kg	122
FX50L	50 Litre Bag	9 kg	72



Workshop or Yard Universal Spill Kits

Larger kits in “wheelie bin” storage so that they can be taken quickly and easily to the spill.

- Kits contain bags of Universal Organic Absorbent, Booms, Pads, Waste Bags & Ties, Dustpan & Broom, Gloves, Instruction Card, MSDS & Contents Re-order Sheet
- Refill components readily available



MODEL	Description	Used For:
FXSKLGE	Larger kit in a 240 litre Wheelie Bin	warehouses, production plants, workshops, truck stops and loading bays etc
FXSKMED	Medium kit in a 120 litre Wheelie Bin	Small manufacturing facilities, laboratories, workshops, liquid storage areas and service stations.



Transport or Workshop Universal Spill Kits

Economical Kit that can be stowed in vehicle cabin or conveniently hung in smaller workshops.

- Kit contains Universal Organic Absorbent, Boom, Pads, Waste Bag & Tie, Dustpan & Broom, Gloves, Instruction Card & Material Safety Data Sheet
- Compact Kit that even includes tools for disposal after fixing spill.
- Refill components readily available.
- Part No. FXSKBAG



As we assemble all Spill Kits in our warehouse, we can vary the contents to suit any custom requirement



Organic Absorbent Booms

1.5m & 3m Booms filled with the same Spillfix Universal Organic Absorbent, providing excellent absorbtion and surface contact to contain a spill prior to application of the loose absorbent material.

Spillfix Booms have strong wicking action - the nature of the coir absorbent provides a strong “wicking” action away from the surface meaning the spill is directed throughout the boom.



- The design of the organic boom provides increased surface contact to trap migrating liquids, maximise the absorbent action, and prevent leakage under the boom
- Because the Spillfix Universal Organic Absorbent used to fill the booms prefer hydrocarbons (e.g. oil) over water, they are ideal in an outdoor situation in wet conditions. If the boom becomes wet, the water will be sacrificed in favour of the oil spill to be contained. Some other booms will not absorb water, creating a dam with a backup of water. The oil will then float over the top of the boom, defeating the purpose of the exercise.



MODEL	Size (length)	Absorbtion Capacity	Qty per Carton
FXB1.5	1.5 m	7.5 Litres of oil	4
FXB3	3 m	15 Litres of oil	2



Bio-Waste Absorbent

Spillfix Bio-Waste is a natural, non-toxic absorbant powder that rapidly immobilises potentially infectious spills such as blood, vomit, urine & faeces that come from humans and animals.

- The spill is rapidly solidified to allow for easy sweep up and safe disposal, minimising risk of personal contact and contamination
- Available in 500ml sachets, 7 litre resealable plastic containers, or as a spill kit



Bio-Waste Absorbent is also great for getting spilt red wine out of carpets!

MODEL	Description
FXBW500ML	500ml sachets
FXBW7L	7 litre resealable plastic containers
FXSKBW	Kit containing 500ml Bio-Waste Absorbent, Gloves, Apron, Mask c/w Eyeshield, Scoops, Clinical Waste Bags, Hygienic Alcohol Wipes, Instructions and Material Safety Data Sheet.

Cutting Oils



Soluble Cutting Oil

A milky white, mineral based, general purpose water miscible cutting fluid.

Part No. SOL5 (5 L)

Part No. SOL20 (20 L)

Recommended Dilutions:

General Purpose Machining	1 : 20
Milling, Drilling & Tapping	1 : 10
Machining Cast Iron & Grinding	1 : 25

It is essential to add a calculated volume of oil to a known volume of water & mix well. (Adding water to oil may result in separation).

At recommended dilutions, the product is classified as non-hazardous.

205 L Drum also available



5 L Bottle



20 L Drum



Neat Threading Oil

Part No. SP-OIL-5 (Standard - 5 L)

Part No. SP-OIL-20 (Standard - 20 L)

Part No. SP-OIL-5HT (High Grade - 5 L)

Part No. SP-OIL-20 (High Grade - 20 L)

- The same cutting oil used in threading machines is ideal for general use such as drilling, tapping etc.
- High grade also available for stainless and high tensile steels.



5 L container



20 L container





Rechargeable Battery Electric Ride-on Mower

The Garrick Rechargeable Battery Electric Ride-on Mower is intended for domestic use, and has been designed as compact as possible to allow maximum manoeuvrability around the home yard which can often include obstacles such as gardens, trees, etc.

With its running time of up to 3 hours, it is the ideal mower for larger house blocks, but is equally comfortable on small lawns.

It is supplied as standard with both a grass deflector and a grass catcher.

- No more mixing petrol
- No more pulling cords to start
- No more spark plug or carburettor problems
- Environmentally friendly
- Quiet
- Easy to use!



Cutting Width	650mm (25")	Fully charged operating time	2 - 3 hrs
Riding Motor Power	500 W	Fully charged mowing area	2000-3000 m ²
Mowing Motors Power	2 x 900 W Motors	Cutting Heights	5 x Adjustable Levels
Batteries	36 V / 20AH (3 x 12 V Batteries)	Battery Charging Time (from dead flat)	13 - 14 hrs (approx)
Dimensions (with grass deflector fitted)	1340 L x 700 W x 1030 H (mm)	Dimensions (with grass catcher fitted)	1600 L x 700 W x 1030 H (mm)
Maximum sound level	93 dB (A)	Nett Operating Weight	120 kg



Rechargeable Battery Electric Push Mower

The Garrick Rechargeable Battery Electric Push Mower is intended for domestic use, and has been designed for ease-of-use on small to medium sized lawns.

With its running time of up to 1 hour, it is the ideal push mower when you want quiet operation and no smelly petrol fumes.

It is supplied as standard with grass catcher.

- No more mixing petrol
- No more pulling cords to start
- No more spark plug or carburettor problems
- Environmentally friendly
- Much lighter than petrol mowers (ideal for women)
- No electric cord required (which can get in the way, get cut or limit range)
- Quiet and easy to use!



Cutting Width	450mm (18")	Fully charged operating time	50 - 70 minutes
Motor Power	500 W	Cutting Heights	4 x Adjustable Levels
Battery	36 V / 7 AH	Battery Charging Time (from dead flat)	5 - 7 hrs (approx)
Motor Speed	3800 rpm	Grass Catcher Volume	45 litres
Maximum sound level	93 dB (A)	Nett Operating Weight	28 kg

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Belt Grinding Machines		Treadle	6	Shears	
Bench-mounted	14	H		Hand Lever	8
Pedestal-mounted	14	Hand Ratchet Threader Sets	18	Sheetmetal	
Bench Grinder Accessories		I		Curving Rolls	7
Mitre Table	13	Inspection Cameras	26	Folders - Box & Pan	6
Pedestal	13	Insulated Adjustable Wrenches	22	Guillotine	6
Bench Grinders	12, 13, 14	L		Punches - Chassis Hole	8
Bench Punch		Lever Hoists	20	Punch - Hand Lever	8
Hand Lever	8	Lifting Equipment	19, 20	Shears - Hand Lever	8
Benders		Linishers	12, 13, 14, 15	Swage, Jenny & Wiring Machines	7
Bar	4	M		Slings	
Pipe	5	MAPP Gas	26	Flat Webbing	19
Rod	4	Mowers (Battery Electric)		Round	19
Tube - Electric	5	Push	30	Soldering & Brazing Equipment	26
Tube - Hand	24	Ride-on	30	Spill Kits	28
Tube - Hydraulic	5	N		Stands	
Tube - Manual Thin Wall Steel	4	Natural Zeolite (Absorbent)	27	Bar Bender	4
Benders - Pool Fence	4	O		Bench Grinder	13
Bio-Waste (Absorbent)	28	Oil		Pipe	18
Bolt Threaders	17	Soluble & Neat Cutting Oil	29	Roller	10
Booms (Absorbent)	28	Threading	18	Tube Bender	4
Box & Pan Sheetmetal Folder	6	Organic Absorbent	27	Swage, Jenny & Wiring Machines	7
C		P		T	
Calico Mops	16	Pads (Absorbent)	27	Taper Spindles	16
Cameras	26	Pipe		Test Pumps	26
Chain Blocks	20	Benders	5	Threaders	17, 18
Chain Wrenches	25	Cutters	23	Threading Machine	
Chassis Hole Punches	8	Saws	10, 18	Pipe & Bolt	17
Circular Cold-Cut Saw	8	Stand	18	Rod & Bolt	17
Clamps		Threaders	17	Torches (Soldering & Brazing)	26
Girder	20	Wrenches	23	Trolleys	20
Plate	20	Plastic Pipe Shears	25	Tube Benders	
Cold-cut Saw	8	Plate Clamps	20	Electric	5
Contact Wheels		Pliers	25	Hand	24
Rubber	16	Polishers	12, 13, 14	Hydraulic	5
Curving Rolls		Pool Fence Tube Bender	4	Manual Thin Wall Steel	4
Bench	7	Pressure Test Pumps	26	Pool Fence	4
Sheetmetal	7	Pumps (Pressure Test)	26	Tube Cutters	23
Cutting Oil	29	Punches		Tube Expander	24
D		Chassis Hole Punches	8	W	
Deburrers	24	Hand Lever	8	Wire Wheels	16
Die Heads	18	Push Mower (Battery Electric)	30	Wrenches	
Drain Cleaners	26	Z		Adjustable	21, 22
Drill Drift	11	Zeolite Absorbent	27	Chain & Strap	25
Drill Presses	11			Pipe	23
E				Z	
ErgoTop Adjustable Wrenches	22			Zeolite Absorbent	27
Expander (Tube)	24				



**460 - 462 The Boulevard,
Kirrawee, NSW 2232**

P.O. Box 3118, Kirrawee, NSW 2232

Phone: (02) 9545 6633 Fax: (02) 9545 4222

Email: sales@garrickherbert.com.au

Website: www.garrickherbert.com.au