

MAXIGEAR



MARKAL

Tempil

LOC-LINE

ULLMAN

PIHER

NOGA
SIMPLY SOPHISTICATED

TEXAS PNEUMATIC TOOLS, INC.

LANG TOOLS
Professional Tools For 4 Generations

LLAMBRICH

StrongHandTools
Better Tools. Better Price.

ALBRECHT

MAX

GP

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PRICES DO NOT INCLUDE GST AND ARE
SUBJECT TO CHANGE WITHOUT NOTICE

RETURNED GOODS MAY BE SUBJECT
TO RE-STOCKING FEES AND MUST BE IN
ORIGINAL PACKAGING AND QUOTING
RETURN AUTHORIZATION NUMBER

GOODS RETURNED WITHOUT PRIOR
AUTHORIZATION WILL NOT BE ACCEPTED





MARKING TOOLS AND TEMPERATURE INDICATORS

ABOUT: LA-CO Industries, Inc. is a family owned global manufacturing company specializing in the manufacturing of industrial hand-held markers and temperature indicators. Since 1934, LA-CO have taken pride in the design and manufacturing of high quality, performance-based products for our customers' unique applications.

Like any other tool, markers and temperature indication products are specialized to help professionals do the jobs they need to do. As the industry's leader in these categories, LA-CO continuously invest in research and development to meet the requirements of a constantly changing and advancing marketplace. Through careful product evaluation and analysis, our chemists create proprietary formulas, which are designed to meet the needs of our customers.

MARKAL

Markal® is the global leader in high-performance, hand-held industrial marking products. LA-CO's North American and European manufacturing locations, supporting the hardworking contractors that build the world's great bridges, ships, automobiles, homes, office towers, power plants, railways and many other engineering marvels with Markal products.

PRO-LINE HIGH PERFORMANCE MARKERS

PRO-LINE® HP is a liquid paint marker developed for superior marking performance on oily and greasy surfaces. The high performance paint penetrates through oils and greases to dry quickly and leave a bold, permanent mark that is wear, weather and fade-resistant.

PRO-LINE HP



- **HIGH PERFORMANCE MARKERS**
- High performance paint penetrates through oils and greases to dry quickly and leave a bold, permanent mark
- Unique paint formula resists spreading and dries quickly through oily surfaces to leave precise, permanent marks
- Marking range: -46°C to 66°C

Colour	Part No	
White	MK96960	
Yellow	MK96961	
Red	MK96962	
Black	MK96963	
Orange	MK96964	
Blue	MK96965	
Green	MK96966	
Pink	MK96973	
Replacement Nibs	MK96908	\$2.40



Mark Size 3mm
LIST PRICE \$8.40

PRO LINE FINE & PRO LINE MICRO



- **FINE TIP FOR PRECISION MARKING**
- Liquid paint marker for fine line marking
- High-strength, lightweight barrel designed for industrial-grade use
- Small tip sizes provide highly-visible, sharp lines for greater mark identification.
- Marking range: -18°C to 66°C

Colour	Type	Part No
White	Fine	MK96871
Yellow	Fine	MK96872
Black	Fine	MK96873
White	Micro	MK96888
Yellow	Micro	MK96889
Black	Micro	MK96890



Pro Line Fine:
Mark Size 1.5mm
LIST PRICE \$7.80

Pro Line Micro:
Mark Size 1mm
LIST PRICE \$8.70



HIGH QUALITY INDUSTRIAL MARKPAINT MARKERS

NEW

MARKPAINT

Markpaint is a high quality permanent paint marker. Paint offers an opaque and glossy mark on most light or dark surfaces. Perfect for indoor and outdoor use, the paint is weatherproof. Marks do not fade, for long-lasting results. This market does not contain xylene or toluene protecting users health.

- Low odor
- Made in Germany
- Smudge-proof
- Waterproof
- Marking Temp range -16C° TO 50C°
- Light and durable barrel w/ acrylic bullet nib 2-4mm

Colour	Part No
White	MK97520
Yellow	MK97521
Red	MK97522
Black	MK97523
Blue	MK97524
Green	MK97525
Orange	MK97526
Pink	MK97527
Purple	MK97528



INDIVIDUAL MARKERS
LIST PRICE \$6.30



PACK OF 3 MARKERS ON HANG CARDS

MK975Y3	3 X YELLOW
MK975W3	3 X WHITE
MK975B3	3 X BLACK

LIST PRICE \$18.95



MK199015
CUSTOM COLOURS X 32
COUNTER DISPLAY

LIST PRICE \$260.00

Industry Uses:

- Automotive & Other transportations
- Automotive Assembly
- Industrial Manufacturing
- Metal Fabrication
- Construction
- Welding
- Textile Industry
- Rail Industry
- Shipping Supply
- Military

Surface Uses:

- Steel, Iron, Non-ferrous Metals
- Aluminum
- Rubber/ Tyres
- Glass
- Plastic
- Cardboard
- Ceramic
- Cloth & Fabric (Textiles)
- Pipes, Tubes, & Plates
- Tiles, Concrete & Stone



PRO LINE WP



- WET SURFACE MARKING**
- Specially formulated paint resists running or spreading on wet or damp surfaces to leave permanent, highly-visible marks
- Marking range: -46°C to 66°C

Colour	Part No
Yellow	MK96931
Black	MK96933



Mark Size 3mm
LIST PRICE \$8.70

PRO MAX



- EXTRA LARGE MARKING**
- Extra large tip ideal for signage or safety marking where immediate identification is required
- Valve-actuated tip releases paint on-demand for smooth, continuous use
- Marking range: -18°C to 66°C

Colour	Part No
Yellow	MK90900
Black	MK90903



Mark Size up to 14mm
LIST PRICE \$16.50

PRO WASH D



- REMOVABLE LIQUID PAINT MARKER**
- Fast drying paint easily removes leaving surfaces free of mark ghosting or paint residue.
- Pro-Wash D marks can be removed with detergent solutions that have a pH level of 10 or above.
- Marking range: -18°C to 66°C

Colour	Part No
Yellow	MK97011
Black	MK97013



Mark Size 3mm
LIST PRICE \$8.70

STYLMARK TUBE MARKER

Markal® Stylmark® is a metal-ball tip marker for marking most surfaces. The aluminum squeeze tube and thick paint makes it suitable for rough, vertical and overhead surfaces with excellent adhesion on oily and wet surfaces. Xylene-free paint reduces user health risks.



- METAL-BALL TIP PAINT MARKER FOR MULTIPLE SURFACES**
- Aluminum squeeze tube and thick paint makes it suitable for rough, vertical and overhead surfaces with excellent adhesion on oily and wet surfaces.
- Marking range -20°C to 70°C

Colour	Part No
White	MK96652
Yellow	MK96653
Black	MK96655



Mark Size 3mm
LIST PRICE \$10.70

SECURITY CHECK PAINT MARKER

Security Check Paint Marker is perfect for indicating tampering or loosening of bolts or parts, Markal Security Check paint provides an easy-to-read visual indication. The non-drip formula easily applies across bolt threads and cracks when loosened.



- Paint marks crack for visual indication of loosening or tampering of bolts and parts
- Each tube packed with extended plastic tip
- Dry to touch: 15 minutes
- Full Cure: 4 days
- Larger volume tube holds 70% more paint than leading competitor
- Marking range: -4°F to 158°F, (20°C to 70°C)
- Mark temperature resistance: 392°F. (200°C)

Colour	Part No
Orange	MK96674



Mark Size 3mm
LIST PRICE \$24.20

QUIK STIK

Quik Stik® is a smooth-marking solid paint crayon that dries quickly to leave a bold, permanent mark on most surfaces. The durable plastic twist-up holder prevents breakage. Keep hands, clothing, and toolboxes clean with the industry's largest twist-up solid paint marker.

QUIK STIK TWIST UP



- FAST-DRYING SOLID PAINT IN TWIST-UP HOLDER**
- Marks dry in 5 to 7 minutes
- Contains 20% more paint than other brands
- Marks on virtually any surface: wet, smooth, rough, or hot
- Airtight, self-storing cap keeps the marker clean and fresh between uses
- Weather- and UV-resistant paint for long-lasting mark
- Marking range: -18°C to 200°C

Colour	Part No
Red	MK61049
Black	MK61050
White	MK61051
Blue	MK61070

- AVAILABLE IN HI-VISIBILITY YELLOW**

Colour	Part No
Fluoro Yellow	MK61041



LIST PRICE \$13.90



LIST PRICE \$14.92

QUIK STIK MINI



- MINI MARKER FOR FINE LINE MARKING**
- Ideal for finer line marking on smooth or rough surfaces.
- Fast-drying, vibrant paint marks dry in 5 to 7 minutes
- Marks on virtually any surface: wet, smooth, rough, or hot
- Weather- and UV-resistant paint for long-lasting mark
- Marking range: -18°C to 200°C

Colour	Part No
White	MK61126
Yellow	MK61127
Red	MK61128
Black	MK61129



LIST PRICE \$8.50

PAINTSTIK

As Markal's most versatile and economic marker, the original B® Paintstik® solid paint marker combines the durability of paint in the convenience of a crayon. The real paint formula has superior marking performance on oily, icy, wet, dry or cold surfaces and is weather and UV-resistant. This Paintstik® works on rough, rusty, smooth, or dirty surfaces.

PAINTSTIK B



- MULTI-PURPOSE PERMANENT SOLID PAINT CRAYON**
- Real paint for long-lasting, highly visible marks
- Solid paint marker eliminates replacement tips, sharpening or priming, increasing productivity
- Weather- and UV-resistant for long-lasting marks
- Marking range: -46°C to 66°C

Colour	Part No
White	MK80220
Yellow	MK80221
Red	MK80222
Black	MK80223
Blue	MK80225



Mark Size 17mm
LIST PRICE \$3.65

LUMBER CRAYON 500 CLAY BASED LUMBER CRAYON

NEW



Markal Lumber Crayon #500 is a harder, clay-based crayon for longer marking life and is suitable for marking in hot climates. The bold, bright marks are weather and UV-resistant.

available in YELLOW only	
Part No	List Price
MK80321	\$4.30



LIST PRICE \$4.30

PAINTSTIK CONT.

As Markal's most versatile and economic marker, the original B® Paintstik® solid paint marker combines the durability of paint in the convenience of a crayon. The real paint formula has superior marking performance on oily, icy, wet, dry or cold surfaces and is weather and UV-resistant. This Paintstik® works on rough, rusty, smooth, or dirty surfaces.

PAINTSTIK B-L BLEED THRU



Designed to bleed through solvent- or oil-based primers or painted surfaces, the B-L Paintstik is ideal for structural steel parts or layout work where marks are required to show through a covering coat of paint or primer.

Colour	Part No	NEW
Blue	MK80725	



Mark Size 17mm
LIST PRICE \$13.95

PAINTSTIK H - HOT SURFACE MARKER



- **THE INDUSTRY ORIGINAL** Writes on hot castings, forgings, coils, billets, plates and other hot metal surfaces
- Lasts up to 3X longer than the writing life of hot chalk
- Fast-drying marks are permanent and will not run, char, flow, discolor, peel or crack
- Forgings and parts can be immediately dipped into cold water baths without damaging the marks
- Marking range: 107°C to 593°C

Colour	Part No	List Price
Yellow	MK81021	\$4.70
Black	MK81023	\$4.70

EXTRA LONG METAL HOLDER TO SUIT

Length	Part No	List Price
28mm	MK85700	\$143.00



Box Quantity 144
Mark Size 9.5mm

PAINTSTIK N - WHITE MARKER



- **MARKS WILL NOT SHOW THROUGH TOP COAT OF PAINT OR PRIMER**
- Ideal for ship building or other metal fabrication
- Solid paint formula designed for marking on wet, dry, oily, rusty, icy, smooth, or rough surfaces
- Marking range: -18°C to 66°C

Colour	Part No
White	MK82120



Mark Size 17mm
LIST PRICE \$6.80

PAINTSTIK WS - 3/8 WATER SOLUBLE



- **REMOVABLE SOLID PAINT CRAYON**
- The fine line marks are easily wiped away with water and will not ghost.
- Ideal for temporary marking on non-porous surfaces
- Marking range: -18°C to 66°C

Colour	Part No
Yellow	MK82421



Mark Size 9.5mm
LIST PRICE \$6.20

PAINTSTIK P - GALVANISER'S MARKER



- **SUPERIOR MARKING ON ROUGH, RUSTY, OILY, OR SMOOTH SURFACES**
- Designed for use in pickling baths or galvanizing operations.
- Marks remove in pickling baths to allow excellent adhesion for zinc coating compared to liquid paint markers
- Solid paint crayon makes wide, bold marks for instant identification

Colour	Part No
White	MK83420



Mark Size 17mm
LIST PRICE \$10.40

DURA INK - PERMANENT INK MARKERS

DURA-INK 5



- **PERMANENT MARKER WITH EXTENDED MICRO TIP**
- For precision marking needs and is ideal to use through drill holes, mounting brackets, or in any hard to reach areas.
- Industrial-strength ink is smear- and water-resistant for longer lasting marks

Colour	Part No
Black	MK96520



Mark Size 1mm
LIST PRICE \$7.60

DURA-INK 20



- **RETRACTABLE MARKER WITH FINE BULLET TIP**
- Marker features a one-handed, push-button for easy opening and closing.
- Fast-drying ink formula completely washes off all non-porous surfaces
- High-visibility marks are water and detergent removable without ghosting or residue

Colour	Part No
Black	MK96575
Red	MK96576



Mark Size 3mm
LIST PRICE \$5.20

DURA-INK 55



- **MEDIUM CHISEL TIP**
- Permanent ink marker with medium chisel tip to produce both fine and broad permanent marks.
- Industrial-strength ink is smear- and water-resistant for longer lasting marks

Colour	Part No:
Red	MK96528
Black	MK96529



Mark Size 1.5mm / 4.5mm
LIST PRICE \$2.95

DURA-INK 200



- **LARGE BROAD CHISEL TIP**
- Can produce both extra-large or medium-sized marks
- Industrial grade tip will not spread or mush
- Jumbo ink supply for greater marking mileage

Colour	Part No:
Red	MK96916
Black	MK96917



Mark Size 9.5mm / 16mm
LIST PRICE \$12.70

DURA-INK WASH AWAY



- **TEMPORARY INK MARKER**
- Quickly and completely washes off non-porous surfaces with water or cleaning solutions without leaving a residue or ghosting on the surface.
- Engineered specially for temporary marking applications, the highly-visible ink formula dries quickly to avoid smudging or lost marks and is ideal for use on most metals and glass.

Colour	Part No:
Blue	MK96302



Mark Size 3mm / 8mm
LIST PRICE \$9.00

TRADES MARKER - GREASE HOLDER WITH 5 REFILLS



- Trades Marker has the marking versatility of a paper-wrapped grease pencil combined with simple push-button advance that helps reduce cost and waste.
- This refillable, all-surface marker leaves a wear-resistant mark and is safe for all surfaces.
- Suitable for Smooth, rough, rusty, or dirty surfaces
- Holder maximizes complete use of marker
- Marks are rub- and weather-resistant, leaving a bold, permanent mark
- Contains 5 coloured refills:
- **Orange** **White** **Red** **Yellow** **Black**

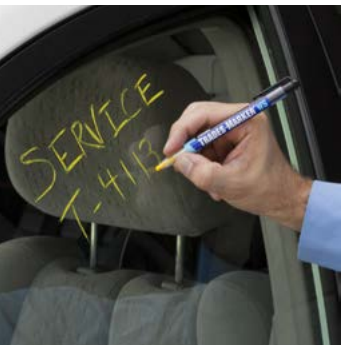


PART NO: MK96000
LIST PRICE \$30.50

12 PCE REFILL PACK
LIST PRICE \$29.80

Colour	Part No
Orange	MK96247
White	MK96240
Red	MK96242
Yellow	MK96241
Black	MK96243

TRADES MARKER - WATER SOLUBLE 12 PCE - YELLOW



- Trades Marker WS is a refillable, all-surface marker that leaves a removable mark and is safe for all surfaces.
- Marks can be wiped away easily with water. Ideal for quality control and temporary marking needs
- Suitable for Smooth, rough, rusty, or dirty surfaces
- Holder maximizes complete use of marker

TRADES MARKER KIT

Colour	Part No	List Price
Yellow	MK96191	\$40.80

12 PCE REFILL PACK

Colour	Part No	List Price
Yellow	MK96181	\$35.50



MARKAL PRO HOLDER



- Markal Pro Holder uses a long needle-nose tip to mark in hard-to-reach spots.
- The all-metal and refillable construction, built-in sharpener, and one-click advance provide years of reliability and ease-of-use.

6 PCE REFILL PACK LIST PRICE \$37.60

Colour	Part No
Silver Streak Pro	MK96271
Red Riter Pro	MK96272
Graphite, Red & Yellow	MK96276

PRO HOLDER
PART NO: MK96270
LIST PRICE \$69.80



SILVER-STREAK METAL MARKER



- Highly visible marks illuminate when cutting or welding
- Superior to soapstone in markability and durability; will not rub, burn or blow off surface
- Marks on oily, wet or rusty metals, and will not scratch or abrade surfaces
- Durable, mechanical holder prevents stick breakage and features a convenient, built-in sharpener and pocket clip for easy storage.
- **MARKER WITH 1 LEAD SILVER REFILL**
MK96006 \$30.50
- **MARKER WITH 6 LEAD SILVER REFILLS**
MK96107 \$46.00
- **SILVER STREAK REFILL PACK OF 6**
MK96007 \$22.90



WELDERS PENCIL - SILVER STREAK & RED RITER

Welders pencils for metal layout and fabrication



- **RED TO SUIT ALUMINUM OR OTHER BRIGHT METALS, SILVER SUITS DARKER SURFACES**
- Reflective lead illuminates when cutting or welding for improved visibility
- The soapstone alternative: marks resists torch flames; will not rub, burn or blow off
- Durable marks will not scratch or abrade metal surfaces

Box of 12	Part No	List Price
Red Riter	MK96100	\$31.20
Silver Streak	MK96101	\$27.60

NEW

Pack of 3	Part No	List Price
2 x Silver 1 x Red	MK22219	\$12.90
3 x Silver	MK22220	\$12.90



3 PCE HANG PACKS



BOX QUANTITY 12

VALVE ACTION PAINT MARKER

The UV-visible Valve Action makes an invisible paint mark that glows bright blue when viewed with a UV or black light, making it ideal for security, quality control, tamper-proofing, and anti-counterfeiting processes. The permanent invisible liquid paint dries quickly to provide long-lasting, weather- and wear-resistant marks.



- **UV INVISIBLE MARKER**
- Ideal for security, theft-prevention and quality control.
- Fast-drying formula to reduce smearing.
- Dura-Nib medium bullet tip resists wear and tear for a longer marking life
- Marking range: -46°C to 66°C

Colour	Part No
Ultraviolet Blue	MK97054

Mark Size 3mm
LIST PRICE \$9.20



TEMPIL

Tempil® is an industrial leader in advanced and accurate temperature indication technologies. From protecting NASA's Space Shuttle Orbiter to measuring critical temperatures of life saving drugs and devices, engineers and professionals rely on the accuracy of Tempil for the most vital applications.

TEMPILSTIK - TEMPERATURE INDICATING STICK

Fast, accurate surface temperature indicator.

Providing accuracy, confidence and compliance for over 80 years, Tempilstik is the original temperature-indicating stick with the best combination of precision and convenience for surface temperature measurement. Specially engineered for accurate temperature indication in pre-heating, interpass and post-weld heat treating applications, Tempilstik is the industry's leading choice for use in the most critical jobs.

Stick instantly melts at designated temperature for easy and immediate visual inspection

Accurate to within +/- 1% of Fahrenheit and +/- 3% Celsius rated

Part No:	Temperature Reading °	List Price \$
TS28006	66 C / 150 F	\$41.50
TS28301	50 C / 122 F	\$41.50
TS28310	100 C / 212 F	\$41.50
TS28318	150 C / 302 F	\$41.50
TS28327	200 C / 392 F	\$41.50
TS28336	250 C / 482 F	\$41.50
TS28600	20 Piece Temperature Indicator Kit	\$895.00





HEAVY DUTY 3 POINT PUNCHES

- Produce holes in sheet metal up to 3mm (10 SWG) in mild steel, or 2mm (14 SWG) in Stainless Steel
- 3 Point Punches have a hexagon head bolt to facilitate use with a ratchet and socket.
- Thrust races are also available to reduce friction & make for easier use on thicker materials

Sheet Metal Punches Produce accurate Burr Free Holes in steel and brass.

WAD PUNCHES

For cutting accurate holes in cardboard, rubber, leather and other soft materials Alloy tool steel, Precision Machine Ground
Hardened & Tempered, Powder coated finish



Part No.	Size	List \$
WP02	2mm 1/16 inch	\$16.48
WP03	3mm 1/8 inch	\$16.48
WP04	4mm 5/32 inch	\$16.48
WP05	5mm 3/16 inch	\$16.48
WP06	6mm 7/32 inch	\$16.48
WP07	7mm 1/4 inch	\$16.48
WP08	8mm 5/16 inch	\$17.07
WP09	9mm 11/32 inch	\$17.76
WP10	10mm 3/8 inch	\$20.01
WP11	11mm 7/16 inch	\$22.47
WP12	12mm 15/32 inch	\$24.34
WP13	13mm 1/2 inch	\$28.03
WP14	14mm 9/16 inch	\$28.89
WP15	15mm 19/32 inch	\$32.10
WP16	16mm 5/8 inch	\$35.20
WP17	17mm 21/32 inch	\$37.66
WP18	18mm 11/16 inch	\$40.45
WP19	19mm 3/4 inch	\$42.75
WP20	20mm 25/32 inch	\$48.15
WP21	21mm 13/16 inch	\$53.39

Part No.	Size	List \$
WP22	22mm 7/8 inch	\$54.57
WP23	23mm 29/32 inch	\$61.95
WP24	24mm 15/16 inch	\$66.23
WP25	25mm 1 inch	\$70.94
WP26	26mm 1-1/32 inch	\$77.04
WP28	28mm 1-3/32 inch	\$88.60
WP29	29mm 1-1/8 inch	\$93.41
WP30	30mm 1-3/16 inch	\$99.08
WP31	31mm 1-7/32 inch	\$104.65
WP32	32mm 1-1/4 inch	\$109.68
WP33	33mm 1-9/32 inch	\$115.88
WP35	35mm 1-3/8 inch	\$125.99
WP38	38mm 1-1/2 inch	\$146.38
WP41	41mm 1-5/8 inch	\$170.13
WP42	42mm 1-21/32 inch	\$180.30
WP44	44mm 1-3/4 inch	\$199.02
WP47	47mm 1-7/8 inch	\$233.26
WP48	48mm 1-29/32 inch	\$249.31
WP50	50mm 2 inch	\$274.99
WP53	53mm 2-11/128 inch	\$334.91

INTERCHANGEABLE WAD PUNCH SET

SET 3mm - 20mm
(3, 4, 6, 8, 10, 12, 14, 16, 18, 20 + holder)

For cutting washers, sealing rings made of foam, cardboard, leather, fibers, plastics, lead etc.

NEW



PART NO. WPIK0320 LIST \$325.00

Part No.	Size	List \$
WP55	55mm 2-3/16 inch	\$367.01
WP56	56mm 2-13/64 inch	\$388.41
WP57	57mm 2-1/4 inch	\$404.46
WP60W	60mm 2-3/8 inch	\$462.88
WP63	63mm 2-1/2 inch	\$526.44
WP69	69mm 2-23/32 inch	\$592.78
WP70	70mm 2-3/4 inch	\$614.18
WP73	73mm 2-7/8 inch	\$634.51
WP75	75mm 3 inch	\$736.16
WP82	82mm 3-1/4 inch	\$944.81
WP100	100mm 4 inch	\$1,459.48

Other sizes in the range 1mm - 120mm available on special buy in terms. Conform to DIN 7200

PIPE-PRO CUTTING GUIDES

Pipe-Pro Guides are easy-to-use templates that provide an easy guide for marking cuts on pipes.

They save time and money with less waste and a better fit.

Two double-sided templates create 4 different cutting guides at 45°, 90°, and 22.5°.

Pipe-Pro Guides are flexible with a "forever hinge," metal and magnetic that's almost indestructible. They're lightweight and durable, and every Guide comes with a lifetime guarantee. Use Pipe-Pro Guides for fencing, corrals, handrails, race cars, and more!

INDIVIDUAL PIPE-PRO CUTTING GUIDES



Part No	To Suit Pipe Outside Diameter:	To Suit Pipe Inside Diameter:	List Price \$
PPCG0032	1-5/8" / 41mm	1-1/4" / 32mm	\$37.60
PPCG0040	1-7/8" / 48mm	1-1/2" / 40mm	\$37.60
PPCG0050	2-3/8" - 60mm	2" / 50mm	\$37.60

PIPE-PRO CUTTING GUIDE KITS



Part No	To Suit Pipe Outside Diameter:	To Suit Pipe Inside Diameter:	List Price \$
PPCG3240	1-5/8" / 41mm 1-7/8" / 48mm	1-1/4" / 32mm 1-1/2" / 40mm	\$66.30
PPCG4065	1-7/8" / 48mm 2-3/8" / 60mm 2-7/8" / 73mm	1-1/2" / 40mm 2" / 50mm 2-1/2" / 65mm	\$86.00

NEW



Part No	To Suit Pipe Outside Diameter:	To Suit Pipe Inside Diameter:	List Price \$
PPCG8900	3-35/64 90mm 4-21/64 110mm	3-1/2 / 89mm/ 4-1/2 / 115mm	\$86.00

MAXIGEAR

RATCHETING WRENCHES - COMBINATION THE NEW PREMIUM IN RATCHETING WRENCHES.

Deeper Gear Teeth enables stronger torque

72 Teeth ratchet for a 5° swing arc to turn a fastener

Small head profile and professional plating for corrosion resistance.

Meets or exceeds DIN and A.N.S.I. standards

Guaranteed to be free from manufacturers and material defects for the life of the tool during normal use.

	MAXIGEAR	Equivalent	Overall	
Size	No.	Size	Length	List \$
6mm	MGC4006	9106	136mm	\$14.66
7mm	MGC4007	9107	136mm	\$17.32
8mm	MGC4008	9108	136mm	\$17.84
9mm	MGC4009	9109	143mm	\$18.04
10mm	MGC4010	9110	160mm	\$19.50
11mm	MGC4011	9111	168mm	\$20.44
12mm	MGC4012	9112	174mm	\$20.90
13mm	MGC4013	9113	180mm	\$21.79
14mm	MGC4014	9114	193mm	\$22.26
15mm	MGC4015	9115	200mm	\$22.67
16mm	MGC4016	9116	216mm	\$23.45
17mm	MGC4017	9117	233mm	\$24.86
18mm	MGC4018	9118	239mm	\$26.99
19mm	MGC4019	9119	250mm	\$30.73
20mm	MGC4020	9120	285mm	\$34.16
21mm	MGC4021	9121	285mm	\$35.46
22mm	MGC4022	9122	285mm	\$36.45
24mm	MGC4024	9124	325mm	\$42.48
25mm	MGC4025	9125	325mm	\$48.10
27mm	MGC4027	9127	359mm	\$58.24
30mm	MGC4030	9130	425mm	\$69.68
32mm	MGC4032	9132	425mm	\$72.75
36mm	MGC4036	9136	425mm	\$152.57
	MAXIGEAR	Equivalent	Overall	
Size	No.	Size	Length	List \$
1/4"	MGC4052	9008	136mm	\$17.21
5/16"	MGC4054	9010	136mm	\$17.63
11/32"	MGC4055	9011	143mm	\$18.15
3/8"	MGC4056	9012	160mm	\$18.51
7/16"	MGC4058	9014	168mm	\$19.03
1/2"	MGC4060	9016	180mm	\$21.27
9/16"	MGC4062	9018	193mm	\$21.79
5/8"	MGC4064	9020	216mm	\$23.66
3/4"	MGC4068	9024	250mm	\$30.73
13/16"	MGC4070	9026	286mm	\$35.62
7/8"	MGC4072	9028	286mm	\$37.08
15/16"	MGC4074	9030	325mm	\$43.16
1"	MGC4076	9032	325mm	\$44.72
1-1/16"	MGC4077	9034	359mm	\$58.24
1-1/8"	MGC4078	9036	425mm	\$63.69



MAXIGEAR Set No.	Equivalent Sizes	Contents	List \$
MGC4080 12 piece	9412	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	\$193.15
MGC4090 16 piece		8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24mm	\$305.60
MGC4086 12 piece	9312	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 13/16, 7/8, 15/16, 1 inch	\$245.00

MAXIGEAR

RATCHETING WRENCHES - REVERSIBLE

Compact reversible switch enables moving from forward to reverse without removing the tool from the fastener

15° offset head for knuckle clearance and safe operation above the workpiece

	MAXIGEAR	Equivalent	Overall	
Size	No.	Size	Length	List \$
6mm	MGR6006	-	124mm	\$21.80
7mm	MGR6007		140mm	\$21.80
8mm	MGR6008	9608	140mm	\$21.80
9mm	MGR6009	9609	142mm	\$22.15
10mm	MGR6010	9610	158mm	\$22.15
11mm	MGR6011	9611	167mm	\$25.65
12mm	MGR6012	9612	173mm	\$26.90
13mm	MGR6013	9613	179mm	\$29.35
14mm	MGR6014	9614	189mm	\$31.80
15mm	MGR6015	9615	199mm	\$31.80
16mm	MGR6016	9616	215mm	\$31.80
17mm	MGR6017	9617	232mm	\$36.70
18mm	MGR6018	9618	238mm	\$39.20
19mm	MGR6019	9619	247mm	\$39.20
20mm	MGR6020	-	285mm	\$51.35
21mm	MGR6021	9621	285mm	\$51.35
22mm	MGR6022	9622	285mm	\$58.65
24mm	MGR6024	9624	325mm	\$58.65
	MAXIGEAR	Equivalent	Overall	
Size	No.	Size	Length	List \$
1/4"	MGR6052	-	124mm	\$21.80
5/16"	MGR6054	9525	135mm	\$21.80
3/8"	MGR6056	9526	158mm	\$23.25
7/16"	MGR6058	9527	167mm	\$25.65
1/2"	MGR6060	9528	179mm	\$26.90
9/16"	MGR6062	9529	189mm	\$29.35
5/8"	MGR6064	9530	215mm	\$31.80
11/16"	MGR6066	9531	232mm	\$36.70
3/4"	MGR6068	9532	247mm	\$39.20
13/16"	MGR6070	9534	285mm	\$48.90
7/8"	MGR6072	9538	285mm	\$51.35
15/16"	MGR6074	9539	325mm	\$58.65
1"	MGR6076	9540	325mm	\$68.45



MAXIGEAR Set No.	Equivalent Sizes	Contents	List \$
MGR6080 12 piece	9620	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	\$268.90
MGR6090 16 piece	9602	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24mm	\$378.90
MGR6085 8 piece	9533	5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 inch	\$185.85
MGR6087 13 piece	9509	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1 inch	\$305.96

MAXIGEAR TOOL ROLLS Set No.		List \$
MGTR8	8 piece	\$21.80
MGTR13	13 piece	\$21.80
MGTRS12	12 piece Stubby	\$21.80

MAXIGEAR

RATCHETING WRENCHES - FLEX HEAD

Flex Head tilts 180° at any interval with continuous head tension

Flex Head permits access to fasteners in difficult to access areas

	MAXIGEAR	Equivalent	Overall	
Size	No.	Size	Length	List \$
8mm	MGF5008	9908	136mm	\$26.90
9mm	MGF5009	9909	143mm	\$27.40
10mm	MGF5010	9910	160mm	\$29.55
11mm	MGF5011	9911	168mm	\$31.00
12mm	MGF5012	9912	174mm	\$31.80
13mm	MGF5013	9913	180mm	\$33.05
14mm	MGF5014	9914	193mm	\$33.90
15mm	MGF5015	9915	200mm	\$34.55
16mm	MGF5016	9916	216mm	\$35.65
17mm	MGF5017	9917	233mm	\$37.85
18mm	MGF5018	9918	239mm	\$41.05
19mm	MGF5019	9919	250mm	\$46.55
20mm	MGF5020	-	285mm	\$53.70
21mm	MGF5021	9921	285mm	\$54.00
22mm	MGF5022	9922	285mm	\$55.45
24mm	MGF5024	9924	325mm	\$64.53
25mm	MGF5025	9925	325mm	\$69.70
	MAXIGEAR	Equivalent	Overall	
Size	No.	Size	Length	List \$
1/4"	MGF5052	-	136mm	\$26.80
5/16"	MGF5054	9705	136mm	\$26.80
3/8"	MGF5056	9706	160mm	\$28.25
7/16"	MGF5058	9707	168mm	\$28.75
1/2"	MGF5060	9708	180mm	\$32.25
9/16"	MGF5062	9709	193mm	\$33.05
5/8"	MGF5064	9710	216mm	\$35.90
11/16"	MGF5066	9711	233mm	\$39.70
3/4"	MGF5068	9712	250mm	\$46.55
13/16"	MGF5070	9713	285mm	\$54.20
7/8"	MGF5072	9714	285mm	\$56.45
15/16"	MGF5074	9715	325mm	\$65.55
1"	MGF5076	9716	325mm	\$68.00



MAXIGEAR Set No.	Equivalent Sizes	Contents	List \$
MGF5080	9901	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	\$293.40
MGF5087	9702	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1inch	\$306.75

MAXIGEAR

STUBBY COMBINATION RATCHETING WRENCHES

The same features as the Combination MAXIGEAR in a compact design for use in tight spaces

	MAXIGEAR	Equivalent	Overall	
Size	No.	Size	Length	List \$
6mm	MGS7006	-	88mm	\$17.11
8mm	MGS7008	-	88mm	\$17.88
10mm	MGS7010	9510	96mm	\$19.51
11mm	MGS7011	9511	100mm	\$20.98
12mm	MGS7012	9512	104mm	\$22.40
13mm	MGS7013	9513	108mm	\$23.76
14mm	MGS7014	9514	114mm	\$25.18
15mm	MGS7015	9515	118mm	\$26.16
16mm	MGS7016	9516	122mm	\$27.96
17mm	MGS7017	9517	128mm	\$30.79
18mm	MGS7018	9518	132mm	\$32.21
19mm	MGS7019	9519	138mm	\$35.04
	MAXIGEAR	Equivalent	Overall	
Size	No.	Size	Length	List \$
3/8"	MGS7056	-	96mm	\$21.85
7/16"	MGS7058	-	100mm	\$22.45
1/2"	MGS7060	-	108mm	\$24.25
9/16"	MGS7062	-	118mm	\$26.11
5/8"	MGS7064	-	122mm	\$28.12
11/16"	MGS7066	-	128mm	\$29.54
23/4"	MGS7068	-	138mm	\$33.52



MAXIGEAR Set No.	Equivalent Sizes	Contents	List \$
MGS7080	9520	8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	\$169.00
MGS7089	9507	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 inch	\$135.00

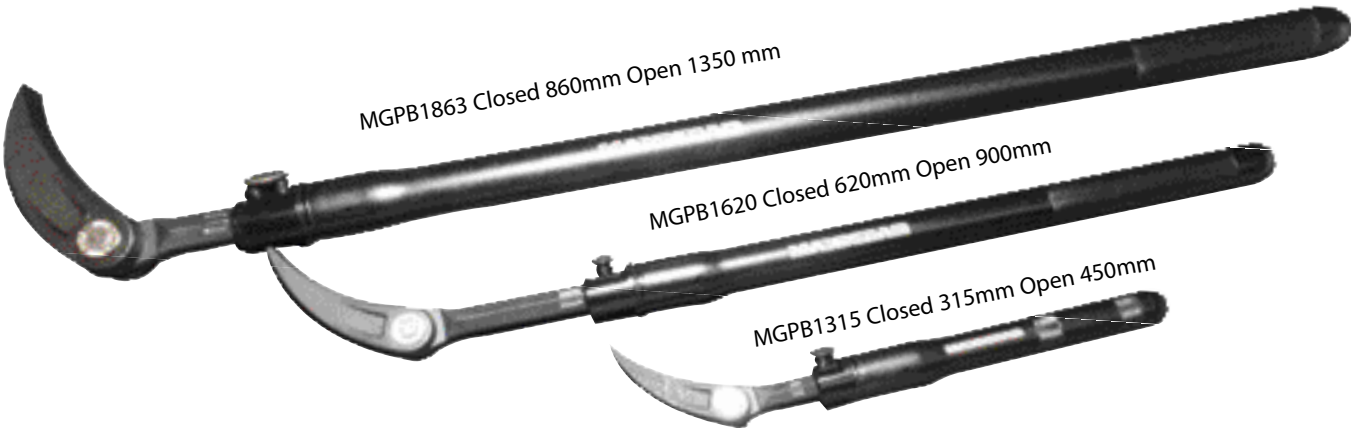
MAXIGEAR® MULTI ANGLE HEAD & EXTENDING BAR - ANSI TESTED

Indexing head: Pivots through 180°, adjusted by simply pressing a button on the head to move the bar into multiple locking positions allowing for close precision work in shifting, sliding, parting & aligning.

Extending variable body length: Press the locking button on the main body handle to increase / decrease the desired length required, when compacted can be stored in a tool chest

Strength is built in; Maxigear Pry Bars are manufactured & rigorously tested to ANSI standards.

Part No	Description	List \$
MGPB1315	Pry Bar Indexing Head & Extendable 315mm - 450mm	\$74.00
MGPB1620	Pry Bar Indexing Head & Extendable 620mm - 900mm	\$105.00
MGPB1863	Pry Bar Indexing Head & Extendable 860mm - 1350mm	\$229.00



HEX KEYS

THE ONLY HEX KEY WHICH CAN DRIVE 100% ROUND HEX DRIVE SCREWS PATENTED DESIGN
Insert or extract cap head screw without damaged as well as being able to remove worn or damaged heads utilising the same patented key set.

9PC METRIC HEX KEY / EXTRACTOR SET
Long Arm - 1.5mm /10mm **MGHK2050 \$45.90**

9PC SAE HEX KEY / EXTRACTOR SET
Long Arm - 1/16" - 3/8" **MGHK2075 \$45.90**



HEX KEY BALL-on-BALL WHEN YOU NEED A 3rd HAND
Retaining the fastener on the key whilst inserting or extracting using Ball-on-Ball Locking System.

9PC METRIC BALL ON BALL HEX KEY SET
Long Arm - 1.5mm /10mm **MGHK1050 \$48.00**

Note: Ball-on-Ball is fitted to 3mm .



SOCKET INHEX BALL END

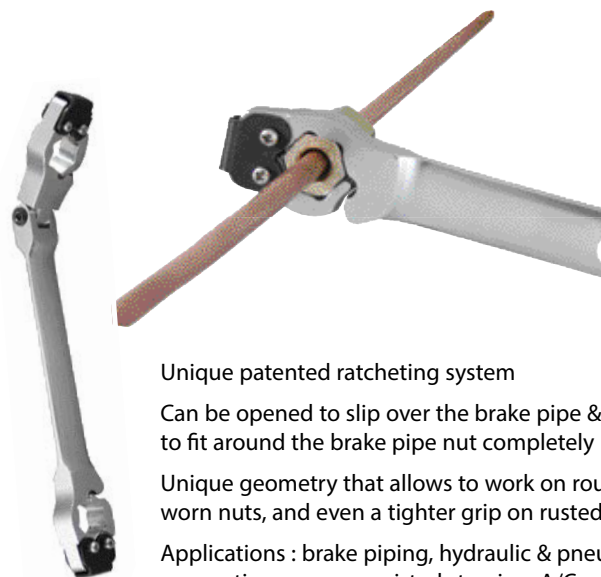
3/8 SQ DR 120mm
8 PC mm Set

Part No.: MGHK3880
List:
\$54.00



Supplied on anodized aluminium socket rail with 2 extra 3/8" SQ DR stud retainers
This product is designed for use by hand & not with power tools

LINE WRENCHES



Unique patented ratcheting system
Can be opened to slip over the brake pipe & closed to fit around the brake pipe nut completely
Unique geometry that allows to work on rounded & worn nuts, and even a tighter grip on rusted nuts
Applications : brake piping, hydraulic & pneumatic connections, power assisted steering, A/C and fuel lines.

Part No.	Contents	List \$
PST-70010	8 x 9, 10 x 11, 12 x 13, 14 x 15mm	\$181.00
PST-70070	5/16 x 3/8, 7/16 x 1/2, 9/16 x 5/8, 11/16 x 3/4	\$209.00
PST-70124	24mm flex-hd combination	\$66.00
PST-70132	32mm flex-hd combination	\$93.00

MAXIGEAR TWIN FULCRUM PLIERS

DIFFICULT TO REACH AREAS? NOT ANY MORE

Ground flush finish produces a narrow but strong profile whilst maintaining maximum reach with Twin Fulcrum Pliers allowing the jaws to be fully open in a single handed operation holding the twin-dipped comfort handles maximising grip via the serrated jaw tips, available in Straight & 45° Jaw styles with an overall length of 340mm.

Part No.	Style	List \$
MGM5800	Straight	\$48.70
MGM5500	TWIN PACK	\$89.00

Twin Pack contains 1x MGM5800 straight & 1xMGM5900 45°



FLEXIBLE SOCKET SET

3/8" Sq Dr. 10pc Metric 6 Point
Sizes 10,11,12,13,14,15,16,17,18,19mm
Supplied on Socket Rail

Part No. MGM8086
List \$89.00



MAGNETIC SOCKET RAILS

Easy glide 360° rotating studs make easy work of making your socket selection.
Magnetic rail makes for convenient storage.
10 turnable Square Drive Studs.

Part No:	Size	List Price
MGM7038	3/8"	\$29.00
MGM7012	1/2"	\$29.00



VERSA-DRIVE ADAPTERS

Versa-Drive adapters allow users to easily switch between sockets and hex bits without having to switch adapters.
Product comes in 2 1/4" Hex shank adapters

- 3/8" Drive adapter with 1/4" hex for bits
- 1/2" Drive adapter with 5/16" hex for bits

Unlike current 1/4" hex-to-square socket adapters, the Versa-Drive incorporates the hex drive into the square socket head itself allowing users to go back and forth between bit and socket without ever removing the adapter from the tool. Used with 1/4" hex drive tools like impact drivers or 1/4" drill chucks the Versa-Drive is a real time saver in a variety of applications. Enables users to easily switch between sockets and hex bits. Impact rated for use in 1/4" cordless and pneumatic impact drivers For torques up to 112.22 M/Kg or 900kg

Part No.: CV00490 **List \$38.17**



MAXIGEAR

DIAMOND WET & DRY CUT HOLESAWS / CORE DRILLS

Effective cutting of Ceramic, Glass, Masonry, Granite, Gypsum. Use with an Electric or Battery Powered Drill for sizes up 12mm. Sizes 14mm and over use with an Angle Grinder with M14 x 2 mount Fast and Efficient Cutting of some of the most difficult materials

Part No.	Diameter	Mount	Cut	List \$
HDW70006	6mm	1/4 Hex	Wet	\$26.90
HDW70008	8mm	1/4 Hex	Wet	\$28.30
HDW70010	10mm	1/4 Hex	Wet	\$31.20
HDW70012	12mm	1/4 Hex	Wet	\$34.00
HDW75000	4 Piece Set	1/4 Hex	Wet	\$105.00
HDW70014	14mm	1/4 Hex	Wet	\$37.60
HDD70020	20mm	M14 x 2	Dry	\$49.25
HDD70022	22mm	M14 x 2	Dry	\$52.70
HDD70035	35mm	M14 x 2	Dry	\$83.50
HDD70040	40mm	M14 x 2	Dry	\$94.75
HDD70045	45mm	M14 x 2	Dry	\$106.00
HDD70053	53mm	M14 x 2	Dry	\$142.50
HDD70068	68mm	M14 x 2	Dry	\$181.15

TUNGSTEN CARBIDE COATED HOLESAWS

For the easy drilling of large diameters in masonry, tiles, bricks, gypsum plaster, for wall sockets, pipe lines, cable ducts & discharge pipes.

Part No.	Diameter	List \$
HTC80001	Arbor with Drill	\$28.50
HTC80033	33mm	\$17.00
HTC80043	43mm	\$21.25
HTC80053	53mm	\$25.80
HTC80067	67mm	\$32.50
HTC80073	73mm	\$34.80
HTC80083	83mm	\$39.00
HTC80103	103mm	\$55.00
HTC85000	6 Piece Set	\$139.00
33mm, 53mm, 67mm, 73mm, 83mm & Arbor with Drill		

ENGINEERS CHALK

Suitable for Welding and fabrication for marking clear, dustless lines on metals, steel, stone and masonry
Made from first Grade mineral, and the whiteness of 93%
Dust free, high visibility. Won't run, char, discolour, peel, or crack when welding

Part No.	Description	Box Qty	List \$
EC10x10BX	10mm x 10mm x 80mm sticks	50 sticks	\$17.00
EC10x10CT	10mm x 10mm x 80mm sticks	1000 sticks	\$325.00
EC10x5BX	10mm x 5mm x 75mm sticks	100 sticks	\$28.00
EC10x5CT	10mm x 5mm x 75mm sticks	2000 sticks	\$540.00



MAXIGEAR



MAGNETIC IMPACT SOCKETS

Features Deep Impact Socket and Standard Impact Socket. Magnetic for a secure hold on any fastener. Deep Series consists of a spring loaded magnet that retracts into the socket for extended bolt application.

Part No:	Drive	Size	List Price
MGID1410	1/4DR	10mm	\$17.23
MGID1412	1/4DR	12mm	\$19.66
MGID1413	1/4DR	13mm	\$23.06
MGID1414	1/4DR	14mm	\$23.69
MGID3810	3/8DR	10mm	\$21.04
MGID3812	3/8DR	12mm	\$22.79
MGID3813	3/8DR	13mm	\$24.27
MGID3814	3/8DR	14mm	\$24.86
MGID1210	1/2DR	10mm	\$29.95
MGID1212	1/2DR	12mm	\$31.80
MGID1213	1/2DR	13mm	\$32.33
MGID1214	1/2DR	14mm	\$33.28



MAGNETIC IMPACT SOCKET 12 PIECE SETS

Set No:	Drive	Size	List Price
MGIS1400	1/4 Drive Standard	4 - 15mm	\$87.20
MGID1400	1/4 Drive Deep	4 - 15mm	\$151.50
MGIS3800	3/8 Drive Standard	8 - 19mm	\$125.35
MGID3800	3/8 Drive Deep	8 - 19mm	\$212.55
MGIS1200	1/2 Drive Standard	10 - 21mm	\$194.00
MGID1200	1/2 Drive Deep	10 - 21mm	\$293.00



DOUBLE FLARING TOOL

This 45 degree DOUBLE FLARING TOOL set is designed to withstand the high pressure. It includes 5 double flare adapters, drop forged compressor yoke Includes bar assembly with size capacity- 4.15, 5, 6, 8 and 10mm.

PST-70153 METRIC List \$103.60



IN LINE FLARING TOOL

This low profile design In Line Flaring Tool enables automotive technicians to flare copper or soft steel tubing in tight spaces using a ratchet or wrench.

The patented new flaring tool design makes perfect single or double flares easily. The double clamp and hex body keeps tube from slipping, keeps flares centred, and makes the job of flaring easier. Superior to bar type flaring tools. For flaring 3/16" and 4.75mm tubing.

Part No. PST-70161 List \$68.80



AUTOMOTIVE SPECIALTY TOOLS



PORTABLE BEARING PACKER

The Portable Bearing Packer works on bearings up to 89mm [3-1/2"] outside diameter. The grease stays in the tool cavity, not on your hands. To pack a bearing, place the bearing on the piston Press down on the cap until the old grease is forced out and the new grease shows on top of the bearing

Part No. PST-72775 List \$68.80



SCREW EXTRACTOR KIT - 5 PIECE

- Forged alloy steel, this tapered style extractor can be used to extract broken studs, screws, pipe and pipe fittings.
 - Has gradual taper and long flutes.
- Part No. PST-65000 List \$43.70**



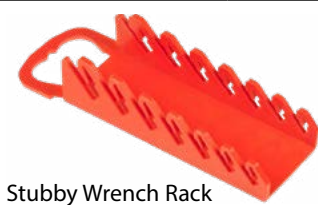
HEAVY DUTY OIL FILTER STRAP WRENCH

- This deluxe wrench adjusts quickly to any spin-on filter.
 - Features 3/8-in. and 1/2-in. forged driver and heavy duty strap for high torque requirements.
- Handles filters up to 9-in. (228mm) especially high torque requirements on truck and tractors
- Part No. PST-27800 List \$75.21**

TOOL GRIPPER WRENCH RACKS

Manufactured from flexible rubber as opposed to stiff plastic. The rubber flexes around the wrench to hold it in place at virtually any angle. Very durable and won't crack or split like plastic versions. Manufactured in the USA.

Part No.	Description	List \$
PST-5040E	4 pce wrench rack - RED	\$15.19
PST-5080E	7 pce wrench rack - RED	\$17.12
PST-5015E	12 pce wrench rack -RED	\$23.86
PST-5013E	13 pce wrench rack - RED	\$24.50
PST-5088E	15 pce wrench rack - FLURO	\$24.50
PST-5188R	15 pce reverse wrench rack -RED	\$24.50
PST-5072E	7 pce wrench rack Stubby - RED	\$17.12
PST - 5082HV	15 pce wrench rack - FLURO	\$26.64
PST-5500E	10 pce plier organiser - RED	\$58.85



Stubby Wrench Rack



Pliers Organiser



REVERSE Wrench Rack

STANDARD Wrench Rack



COMBINATION INTERNAL / EXTERNAL SNAP RING PLIERS SETS ('V' SWITCH) **NEW**

Part No.	Tip	Angle	List	Part No.	Tip	Angle	List
LG3583	.038	0°	\$45.78	LG3589	.070	0°	\$52.54
LG3584	.038	45°	\$45.78	LG3590	.070	45°	\$52.54
LG3585	.038	90°	\$45.78	LG3591	.070	90°	\$52.54
LG3586	.047	0°	\$45.78	LG3592	.090	0°	\$74.00
LG3587	.047	45°	\$45.78	LG3593	.090	45°	\$74.00
LG3588	.047	90°	\$45.78	LG3594	.090	90°	\$74.00

Includes tip diameters of 0.038", 0.047", 0.070" and .090" at 0, 45 and 90 degree angles - Easily convert between internal and external configurations without separating the handles - cushioned grip handles for comfort - Heat treated steel for durability.

6 Piece
Combination
**Set No.
LG3597**
List \$289.00



12 Piece
Combination
Set No. LG3595
List \$585.00



INTERNAL / EXTERNAL SNAP RING PLIERS SETS

Part No.	Tip	Angle	List	Part No.	Tip	Angle	List
LG3483	.038	0°	\$32.16	LG3489	.070	0°	\$33.79
LG3484	.038	45°	\$32.16	LG3490	.070	45°	\$33.79
LG3485	.038	90°	\$32.16	LG3491	.070	90°	\$33.79
LG3486	.047	0°	\$33.25	LG3492	.090	0°	\$51.90
LG3487	.047	45°	\$33.79	LG3493	.090	45°	\$51.90
LG3488	.047	90°	\$33.79	LG3494	.090	90°	\$51.90

6 Piece
Combination
**Set No.
LG3497** **List \$224.90**



12 Piece
Combination
Set No. LG3495
List \$349.00



QUICK SWITCH INTERNAL & EXTERNAL REPLACEMENT

- Convert between internal and external with a quick flip of a switch
- A once relatively time consuming and complicated process is made easy by eliminating the jaw aligning pushpin process
- Double-dipped custom grip made of low-temp, high-impact material for comfort and durability
- Spring return handles
- Each pliers includes a tip kit containing five pairs of durable alloy, colour-coded, interchangeable tips and Allen wrench, all stored in handy pouch
- Also included are a set of thumbscrews that can be screwed in quickly for light-duty applications
- Most user friendly convertible pliers on the market
- Will replace 10 or more of any single competitor's pliers



Part No.	Internal	External	List
HT1421	1/4" - 1" 7mm - 26mm	1/8" - 1" 3mm - 26mm	\$71.87
HT1434	3/8" - 2" 10mm - 51mm	1/4" - 2" 7mm - 51mm	\$81.51
HT75	1-13/16" - 4" 46mm - 102mm	1-1/2" - 4" 32mm - 102mm	\$176.58



Contains 3 sets of Lang pliers.
Made in the USA
Includes the following pliers in packaging:
HT1421, HT1434 & HT75

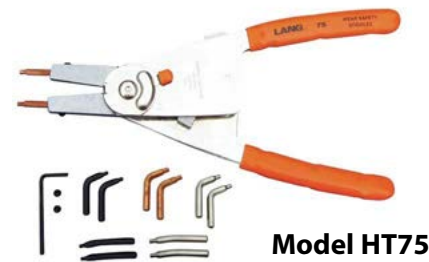
Model HT1465 List \$369.51



Provides safe and stable service of extra large retaining rings
Compound screw lever for easy ring installation and removal
Includes 6 pairs of alloy steel colour coded tips & a hex key
Internal 3-1/2" - 7" / 90mm - 175mm External 3-1/2" - 7" / 90mm - 175mm

Model HT87 List \$311.74

LANG
TOOLS



48 PIECE MASTER THREAD RESTORER KIT

Properly repair or renew damaged threads.

Part No LG0971 List \$295.00

Contents-

Rethreader taps

UNC	UNF	Metric	
1/4" - 20	1/4" - 28	6 x 1.00	12 x 1.25
5/16" - 18	5/16" - 24	8 x 1.25	12 x 1.50
3/8" - 16	3/8" - 24	10 x 1.00	12 x 1.75
7/16" - 14	7/16" - 20	10 x 1.25	14 x 1.50
1/2" - 13	1/2" - 20	10 x 1.50	
9/16" - 12	9/16" - 18	11 x 1.50	

Rethreader Dies

UNC	UNF	Metric	
1/4" - 20	1/4" - 28	6 x 1.00	12 x 1.50
5/16" - 18	5/16" - 24	8 x 1.25	12 x 1.75
3/8" - 16	3/8" - 24	10 x 1.00	14 x 1.50
7/16" - 14	7/16" - 20	10 x 1.25	
1/2" - 13	1/2" - 20	10 x 1.50	
9/16" - 12	9/16" - 18	11 x 1.50	

Threaded files

US Thread Pitch	Metric Thread Pitch
11 16	.75 1.75
12 18	1.00 2.00
13 20	1.25 2.50
14 24	1.50 3.00

15 PIECE METRIC THREAD RESTORER KIT

Properly repair or renew damaged threads.

Part No LG2584 List \$118.00

Contents-

Rethreader taps

Metric	
6 x 1.00	12 x 1.25
8 x 1.25	12 x 1.50
10 x 1.25	12 x 1.75
10 x 1.50	

Rethreader Dies

Metric	
6 x 1.00	12 x 1.25
8 x 1.25	12 x 1.50
10 x 1.25	12 x 1.75
10 x 1.50	

Threaded files

Metric Thread Pitch	
.75 1.75	
1.00 2.00	
1.25 2.50	
1.50 3.00	

26 PIECE SAE SET

Contains 6 UNC & 6 UNF taps, plus 7 UNC & 7 UNF Dies

Part No. LG2581 List \$97.00



Tools are colour coded in gold, black & silver for quick visual identification



THREAD RESTORER FILES

Restore damaged external threads.

Part No LG2665 List \$36.40

Pitches include (threads per inch):
11, 12, 13, 14, 16, 18, 20, 24

Part No LG2670 List \$36.40

Pitches include (mm per thread):
1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00

THREAD RESTORER TAPS

For repair of damaged internal threads on nuts. Chase out damaged threads and remove nicks and burrs without undercutting good threads. Use with standard wrench and light oil.

6 Piece Metric Set

Part No LG2588

List \$45.24

Sizes:
6 x 1.00
8 x 1.25
10 x 1.50
12 x 1.25
12 x 1.50
12 x 1.75



Super Strength High Tech

MAGNETIC PICK-UP TOOL with POWERCAP

The POWERCAP shields the sides of the magnet from attaching to unwanted surfaces, and increases lifting capacity by over 45% Stainless steel telescoping handle is strong, long & lightweight, comfortable textured cushion grip keeps handle secure even in oily hands



Part No.	Lifts	Handle Length	List \$
HT-1	900g	165-845mm	\$36.40
HT-2	2.2kg	165-845mm	\$41.80
HT-3	4.5kg	171-769mm	\$56.00

HIGH TECH INSPECTION MIRRORS - Longer, Stronger & Lightweight

Stainless steel telescoping handle is strong, long and lightweight comfortable textured cushion grip keeps handle secure even in oily hands. Mirror encased in rugged corrosion resistant brushed stainless steel. All-angle ball joint holds mirror firmly for 360° viewing.

Part No.	Mirror Size	Handle Length	List \$
HTE-2	32mm	165-890mm	\$35.20
HTC-2	57mm	165-924mm	\$35.40
HTC-2LM	57mm	300-1295mm	\$50.20
HTS-2	83mm	165-750mm	\$43.00
HTS-2L	83mm	300-1334mm	\$51.00
HTK-2	56 x 87mm	170-650mm	\$45.00

ULLMAN COUNTER DISPLAY



NEW

Part No. HT-DISP LIST \$720.00

Eye catching counter or shelf display for High-tech magnetic pick-up tools & inspection mirrors.

- INCLUDES:

3 x HT-1

3 x HT-2

3 x HT-3

3 x HTE-2

3 x HTC-2

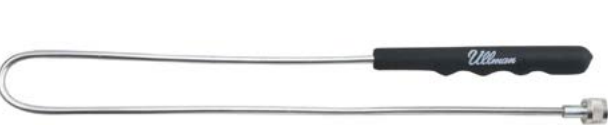
3 x HTS-2

FLEXIBLE MAGNETIC PICK UP TOOL

With Powercap bend to any angle.
2.2Kg Pick Up, 735mm Length

Part Number: HT-2FL

List: \$47.90



CIRCULAR FLEXIBLE INSPECTION MIRROR

Bend to any angle mirror
55mm Length 810mm

Part Number: HTC-2FL

List: \$43.30



NEW

MG-2 TELESCOPING MAGNIFYING GLASS

Shatter resistant magnifying head Comfortable textured cushion grip handle (175mm extends to 915mm).

List \$39.00



C2-X MAGNETIC BASE INSPECTION MIRROR

With a 2-1/4" diameter round mirror and 7-1/8" overall length, the C-2X inspection mirror can be adjusted for optimal viewing and inspection. The magnetic base and adjustable arm allow hidden areas to be brought into full view in seconds.

List \$57.80



LED LIGHTED INSPECTION MIRRORS



LED Light illuminates dark areas for perfect inspection
All-angle ball joint holds the round mirror head firmly at any angle for perfect viewing
Long, strong, and lightweight stainless steel shaft. Non slip cushion handle for wet or oily hands.
Rectangular model features rotating lights

Part No.	Leds	Mirror Size	Handle Length	List \$
HTE-2LT	1	35mm	170-902mm	\$53.80
HTC-2LT	1	60mm	170-940mm	\$53.40
HTS-2LT	3	86mm	170-768mm	\$67.00
HTK-2LT	3	57 x 89mm	171-760mm	\$59.40

LED LIGHTED MAGNETIC PICK UP TOOLS



Steel Magnetic Head to pick up objects up to 3.6kg.
LED Light illuminates dark areas.
Powercap slides over magnet to shield its sides from unwanted objects.
Long, strong, and lightweight stainless steel shaft. Non slip cushion handle for wet or oily hands.

Part No.	Magnet Capacity	Handle Length	List \$
HTLP-1	3.6kg	170 - 705mm	\$56.00
HTLP-2	3.6kg	200 - 832mm	\$55.00
LPT-75	3.4kg	171- 700mm	\$51.00

DIGITAL INSPECTION MIRROR

VIEW & CAPTURE THOSE HARD TO SEE AREAS.

With the Ullman Digital Inspection Mirror, you can increase trust and credibility by showing diagnostic inspection images and videos to your customers.

PART NO: E-DM-1
LIST PRICE: \$340.00

720P
CAMERA

SMART
INSPECTION

INCREASE TRUST & CREDIBILITY
BY SHOWING INSPECTION IMAGES
& VIDEOS TO YOUR CUSTOMERS.

SMARTPHONE ENABLED 720P CAMERA
WITH LED ILLUMINATION

DUAL POINT 360°
ROTATIONAL KNUCKLE

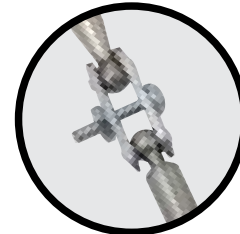
TELESCOPING STEEL ANTENNA

LED ILLUMINATION

TEXTURED CUSHIONED GRIP

RECHARGEABLE VIA MICRO USB
PORT WITH 30 MINUTE RUNTIME

VIEW & SAVE IMAGES TO YOUR
SMARTPHONE BY USING
THE ULLMAN APP



DUAL POINT 360°
ROTATIONAL KNUCKLE



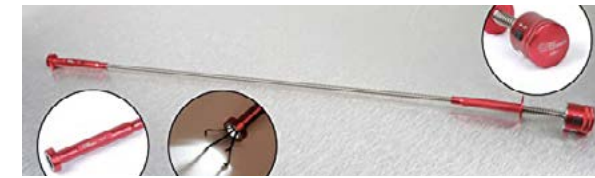
RECHARGEABLE VIA
MICRO USB PORT WITH 30 MIN-
UTE RUNTIME



SMARTPHONE APP
RECORDS PICTURES
& VIDEOS

The Ullman Devices Digital Inspection Mirror is a smartphone enabled 720p camera with LED illumination. Users can connect this product to their phone through a downloadable app. This new device is rechargeable via micro USB port with a 30-minute run-time. Technicians can use this device to help increase trust and their credibility by showing inspection images and videos to customers that can be stored on their phones and viewed later.

FLEXIBLE SPRING CLAMP RANGE

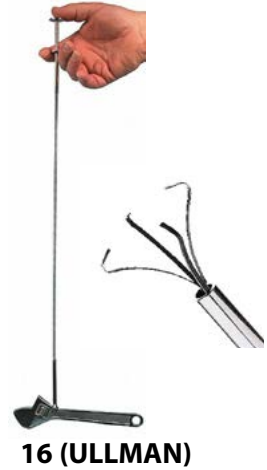


16MLT



16LT

Part No.	Description	Handle Length	List \$
16 (Ullman)	Bright plated, flexible, steel spring	684mm	\$23.10
16LT	LED Lighted, flexible, steel spring	645mm	\$52.25
16MLT	LED Lighted, Magnetic, flexible steel spring Mag lifts 2.25kg	642mm	\$66.00



16 (ULLMAN)

SCREW STARTERS

Suit ferrous or non-ferrous screws tool releases & resets automatically.
Features pocket clip & magnet

Part No.	Description	List \$
Model D-2	Suits slotted screws	\$24.75
Model PD-10	Suits Phillips® Head screws	\$28.00
Model F-2	suits Torx® T-10, T-15, T-20, T-25, T-27, T-30 & most Allen Hex and Phillips® Head screws	\$25.40



POCKET TELESCOPIC MAGNETIC RETRIEVING TOOLS

Powerful enough to pick up objects weighing 680g. Closes down to 150mm, extends to 650mm

Part No.	Colour	List \$
15X	Chrome	\$23.65
15X0R	Bright Orange	\$26.50
15XGR	Neon Green	\$26.50



MAGNETIC RAIL 10-1/4"

Ullman's strong N35 magnets allow rail to be mounted to benches, toolboxes and inside of service vehicles. Mounting holes allow rails to adhere to walls and other non-magnetic surfaces. The Ullman Magnetic Rails allow you to neatly organize your tools and sockets, saving you time from sifting through cluttered drawers and tool boxes.



Part No.	Colour	List \$
UMR10	Chrome	\$55.00

NEW



SOCKET HOLDERS WITH HEAVY DUTY SPRING CLIPS.

Bright, durable, plated steel rail with slide-on spring clips to hold sockets tight & rattleproof 430mm length

Part No.	Drive Clips	List \$
#25	16 x 1/4"	\$13.90
#35	16 x 3/8"	\$13.90
#50	16 x 1/2"	\$13.90
#75	8 x 3/4"	\$16.40



HOOK AND PICK SETS

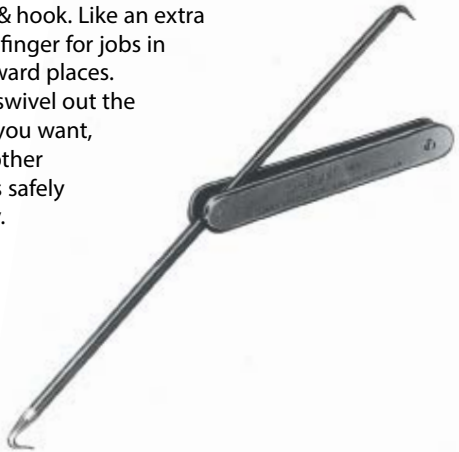
PSP-4 List \$37.00

Each hook & pick is made of high carbon polished steel and is permanently inserted into a sturdy plastic handle.



SW-10 SWINGER List \$22.50

Combination reversible pick & hook. Like an extra long finger for jobs in awkward places. Just swivel out the end you want, the other tucks safely away.



H4W List \$26.00

Aluminium handle with 4 screw-in tips

Zippered top vinyl pouch



CHP4-L List \$42.90

Extra long hook & pick set with textured cushion grip handles. Each item 250mm long



CHP4-LT List \$95.00



LED Lighted Four Piece Hook & Pick Set
Ideal for separating wires, removing small fuses or o-rings, retrieving and marking metal in dark or hard to view areas.
- Includes 90 degree,
- Each tool 250mm long.
- Durable Carbon Polished Heat-Treated Steel
Ergonomic Composite Handle with On/Off Button
High Intensity LED Light illuminates the work area

1830 POCKET SCRIBER List \$28.00

Sharp tungsten carbide tip cuts into hard surfaces, leave clear mark on metal, glass, plastic, tools.

All in one "Push-Click" SAFETY COVER on tungsten carbide with magnetic pick up.



1810 DOUBLE POINTED SCRIBER List \$10.70

Scriber has straight and 90 degree angle points for marking in awkward places.

Knurled aluminium handle.

Heat treated bright polished, high carbon needle steel points

Overall length 240mm



UNIVERSAL SPARK PLUG GAP GAUGE

Easy to read.

Scaled from .020" to .100" (0.5mm to 2.4mm)
Pewter plating makes the inches and millimetres more legible for the user to read
Easy accurate spark plug adjustment

SG-2 List \$8.50



ULLMAN LED LIGHTING RANGE

NEW & IMPROVED

ROTATING MAGNETIC LED WORK LIGHT RT-3SMD (REPLACES RT-2LT)

The RT-3SMD's sturdy aluminum housing with 3 high-intensity SMD LEDs is rated 110 Lumens. A rotating head easily adjusts to illuminate dark spaces, while the magnetic base attaches to any metal surface in seconds for hands-free use. Three AAA batteries are included.

Part No. RT-3SMD List \$64.00



FLEXIBLE MAGNETIC SMD LED WORKLIGHT

Durable aluminum housing
3 x High Intensity SMD LED lights provide a brightness of 110 Lumens.
Heavy duty spring adjusts light beam to required angle with limitless positions.
3 x AAA batteries included
Strong magnetic base with hang hook

Part No: FL-3SMD List \$95.00



ROTATING MAGNETIC LED WORK LIGHT

(6) SMD LED's
375 Lumens
Sturdy Aluminum Housing
Head Rotates light Beam to Needed Angle
Strong Magnet will Attach to Metal Surfaces
Contains (3) AA Batteries

Part No: RT-6SMD List \$105.00



LED CLAMP WORK LIGHT

6 SMD work light with clamp for hands free use.
375 Lumens
Colour anodised aluminium housing
Durable dual injection grip clamp with soft grip 3" clamping jaw.
Continuous 3 Hour run time.
Supplied with 3 AA Alkaline batteries

Part No: CL-6SMD List \$119.00





LED LIGHT RANGE

3 IN 1 LED 10W SOLAR POCKET LAMP

One Tool with 3 Features: Power Bank, Work Light & Solar Panel. Features include
USB Charger Port
U Shaped Bracket
Micro USB Capable
Removable Super Strong Magnetic Attachment
4400 mAh Power Bank
LED to 450 Lumens
5 Hour Run Time without Charge
Part Number MGLS75311 **List \$79.00**



5 IN 1 LED 10W ULTRATHIN POCKET LAMP

One Tool - 5 Features:
Power Bank, Work Light, Magnet, SOS & Dimmer
Features include :
USB Charger Port
U Shaped Bracket
Micro USB Capable
4400 mAh Power Bank
LED to 450 Lumens
4-8 Hour Run Time without Charge
Part Number MGLP75511 **List \$45.00**



PISTOL GRIP 3 WATT LED SPOT LIGHT

Impact resistant casing
Dust & Splash Proof [IP44]
240V & 12V chargers
Self Locking Switch
Charge time 7-8 hours
Work Time 3 hours
Part No. PST-75570 **List \$65.00**



RECHARGEABLE LED HEAD LAMP

LED 200 Lumens - Light Range up to 150 Metres
IPX4 Splashproof - resistant from any direction.
Battery: Built in 1200mah li-polymer battery
USB Rechargeable.
Net weight: 72g - Lightweight !
Multi Lighting Modes:
Full Brightness, Half Brightness, Sensor & Pulse.
Sensor controlled by secondary switch.
Adjustable Strap
Multi Angle
Part Number MGLH75020 **List \$25.00**



MAXIGEAR



LED FLASHLIGHT

New MAXIGEAR torch featuring:
Adjustable Beam
USB Rechargeable
3 Modes - FULL, HALF, FLASHING.
LED to 130 Lumens
Part Number MGLF75310

List \$27.00



SLIM LINE LED PEN TORCH

1 Watt ReChargeable
with USB Charger
Lithium Battery
Charge time 4-5 hours
Work time 3 hours
Pocket Clip
160mm overall length

Part Number PST-75505
List \$56.00

MAXIGEAR

STRAIGHT EDGES



Finished precision ground on both sides & edges
One edge bevelled to 35°

Carbon Steel - Ungraduated / no size markings

Part No.	Length	Width	Thickness	Markings	List \$
SE1.5M	1.5 metre	40mm	8mm	plain	\$296.00
SE2M	2 metre	40mm	8mm	plain	\$425.00
SE3M	3 metre	50mm	8mm	plain	\$849.00

Carbon Steel - Graduated markings every 1mm

Part No.	Length	Width	Thickness	Markings	List \$
SE500GRAD	500mm	40mm	8mm	1mm	\$95.00
SE1MGRAD	1 metre	40mm	8mm	1mm	\$189.60
SE1.5MGRAD	1.5 metre	40mm	8mm	1mm	\$361.00
SE2MGRAD	2 metre	40mm	8mm	1mm	\$474.00
SE3MGRAD	3 metre	50mm	8mm	1mm	\$1,123.00

Stainless Steel - Ungraduated / no size markings

Part No.	Length	Width	Thickness	Markings	List \$
SE1MSS	1 metre	40mm	8mm	plain	\$415.00
SE2MSS	2 metre	50mm	8mm	plain	\$853.00

Stainless Steel - Graduated markings every 1mm

Part No.	Length	Width	Thickness	Markings	List \$
SE1MGRADSS	1 metre	40mm	8mm	1mm	\$567.00
SE2MGRADSS	2 metre	50mm	8mm	1mm	\$1,230.00
SE500MGRADSS	500mm	40mm	8mm	1mm	\$291.00

Carbon Steel - Precision Straight Edge

Supplied with certification to DIN 874/0 or 874/1

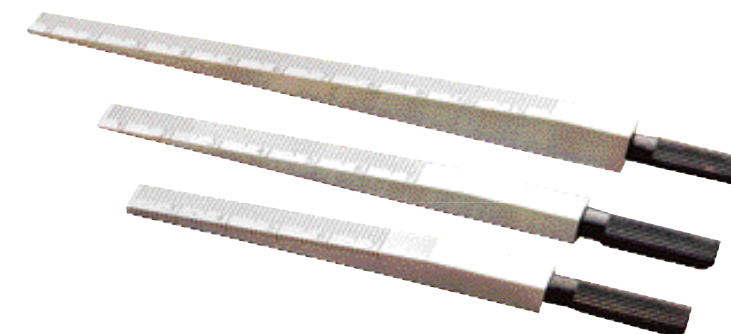
Lapped on all 4 square sides. Ungraduated / No size markings - CERTIFIED

Part No.	Length	Width	Thickness	Standard	List \$
SE1000GR0	1 metre	60mm	12mm	874/0	\$899.00
SE1000GR1	1 metre	50mm	10mm	874/1	\$398.00
SE1500GR1	1.5 metre	60mm	12mm	874/1	\$731.00
SE2000GR0	2 metre	80mm	15mm	874/0	\$2,561.00
SE2000GR1	2 metre	70mm	15mm	874/1	\$1,905.00

MEASURING WEDGES

For measuring of gap dimensions
Special steel, ground on all sides, chrome plated
scale laser cut, knurled handle
Dimensions 153 x 12 x 8mm

Part No.	Range	Reading	List \$
MW0511	0 - 11mm	0.1mm	\$225.00





MAXIGEAR

DRILL CHUCKS - PORTABLE POWER TOOLS

COMPLIMENTING OUR PREMIUM QUALITY LLAMBRICH RANGE OF INDUSTRIAL CHUCKS & ACCESSORIES, OUR MAXIGEAR ECONOMY DRILL CHUCKS ARE A DURABLE, RELIABLE, & COST EFFECTIVE OPTION FOR A STATIONERY EQUIPMENT SUCH AS BENCH AND PEDESTAL DRILLS.

MAXIGEAR ECONOMY KEYED CHUCKS

Model	Capacity	Mount		Sizes	mm		
No.	mm	K	Key	O	L1	L2	List \$
CK13AC6JT	1-13MM	J-6	K3	-	-	-	\$59.00
CK16AC3JT	1-16mm	J-3	K4	-	-	-	\$77.00

THESE CHUCKS COME IN A BALL BEARING CONSTRUCTION

*THESE CHUCKS ARE SUPPLIED IN STURDY PLASTIC CONTAINER.

CHUCK, KEY AND ARBOR COMPLETE

Model No	Range	Mount	List \$
CK13AC2MT	1 - 13mm	2 Morse Taper	\$84.70
CK13AC3MT	1 - 13mm	3 Morse Taper	\$89.00
CK13AC4MT	1 - 13mm	4 Morse Taper	\$119.00
CK16AC2MT	1 - 16mm	2 Morse Taper	\$100.50
CK16AC3MT	1 - 16mm	3 Morse Taper	\$107.00
CK16AC4MT	1-16mm	4 Morse Taper	\$136.00

MAXIGEAR ECONOMY KEYLESS CHUCKS

Model	Capacity	Mount	Sizes	mm		
No.	mm	K	O	L1	L2	List \$
CL13AC6JT	1-13MM	J-6	-	-	-	\$97.00
CL16AC6JT	1-16mm	J-3	-	-	-	\$119.00

*THESE CHUCKS ARE SUPPLIED IN STURDY PLASTIC CONTAINER.

CHUCK AND ARBOR COMPLETE

Model No	Range	Mount	List \$
CL13AC2MT	1 - 13mm	2 Morse Taper	\$122.70
CL13AC3MT	1 - 13mm	3 Morse Taper	\$127.00
CL13AC4MT	1 - 13mm	4 Morse Taper	\$157.00
CL16AC2MT	1 - 16mm	2 Morse Taper	\$140.70
CL16AC3MT	1 - 16mm	3 Morse Taper	\$145.00
CL16AC4MT	1 - 16mm	4 Morse Taper	\$179.00

PIN CHCKS ALSO AVAILABLE, REFERENCE PAGE 138

LLAMBRICH

ALL METAL KEYLESS CHUCKS



Manufactured in Spain



Manufactured in Spain

Keyless Drill Chuck with metal body, locking mechanism and carbide jaw-inserts. With a locking mechanism, no key is required for closing or opening, for hammer drilling and also screwdriver operations. Carbide jaw-inserts (for 13mm capacity) reduce bit slippage and enhance wear resistance. Ergonomic and strong design with full metal sleeves in black oxide finish that eliminate the possibility of rust. With through hole for clockwise and anticlockwise rotation. Supplied with screw M5 (R-3/8") or M6 (R-1/2") to fix chuck to drilling machine. Fits any type of drill (up to 1000W) via UNF thread, male and female. Wide range of accessories (see more info in our Price List)

Model	Capacity	MOUNT		SIZES MM		
No.	mm	K	O	L1	L2	LIST \$
CPM-10 R-3/8	1-10	3/8-24	41	54.5	64.5	\$105.00
CPM-10 R-1/2	1-10	1/2-20	41	54.5	64.5	\$105.00
CPM-13 R-3/8	2-13	3/8-24	43	62.5	74.5	\$156.00
CPM-13 R-1/2	2-13	1/2-20	43	62.5	74.5	\$156.00

Light-Duty Drill Chuck with key for portable drilling machines.

Ideal for electric portable drilling machines, with or without batteries, cutting direction reversible or non reversible.

Fits tools of up to 16mm.

Fits to machine via UNF screw fittings, male and female, DIN-238 and E-6.3.

Model	Capacity	MOUNT			SIZES MM		
No.	mm	K	Key	O	L1	L2	LIST \$
CL-06-ATOR	1 - 6.5	1/4 hex	LKC4	30	44	55	\$59.90
CL-06-R-3/8	1 - 6.5	3/8-24	LKC4	30	44	55	\$45.00
CL-10 R-1/2	1-10	1/2-20	K7	33	50	60	\$45.00
CL-10 R-3/8	1-10	3/8-24	K7	33	50	60	\$45.00
CL-13 B-16	1-13	B-16	S2	43	59	73	\$90.00
CL-13 R-1/2	1.5-13	1/2-20	S2	43	59	73	\$57.80
CL-13 R-3/8	1.5-13	3/8-24	S2	43	59	73	\$57.80
CL-16 B-16	3-16	B-16	K3	54	66	66	\$90.00

DRILL CHUCKS - KEYED - BALL BEARING INDUSTRIAL

KEYED CHUCKS



Manufactured in Spain

Ball Bearing Drill Chuck with key for production drilling equipment.

Drill chuck with key for industrial applications that require the toughest machining conditions. Equipped with ball bearings to reduce friction in the tightening mechanism and provide a better grip on the drill shaft.

All the pieces are hardened and ground.

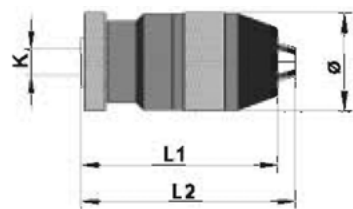
The one piece gear ring and sleeve eliminate the possibility of tooth breakage.

Fits tools of up to 25mm (1"), machine fitting via Jacobs tapers.

Model	Capacity	Mount		Sizes	mm		Equivalent	
No.	mm	K	Key	O	L1	L2	size	List \$
CBB-08 J2	1-8mm	J-2S	LK30SB	47	55	70	-	\$279.00
CBB-10 J2	1-10mm	J-2S	LK32S9	47	55	70	11N	\$293.00
CBB-13 J3	1-13mm	J-3	LS3	62	75	94	14N	\$359.80
CBB-13 J6	1-13mm	J-6	LS3	62	75	94	-	\$359.80
CBB-16 J3	1-16mm	J-3	LK4S13	67	81	102	16N	\$567.00
CBB-19 J4	1-19mm	J-4	LK4S13	75	99	125	18N	\$595.00
CBB-25 J5	5-25mm	J-5	LK5	93	112	147	20N	\$869.00

DRILL CHUCKS - KEYLESS - INDUSTRIAL

INDUSTRIAL KEYLESS CHUCKS



Industrial keyless drill chuck for portable drilling machines or stationery machines.

Drill chucks for industrial use (medium duty), available with screw fittings for professional portable drilling machines and with taper fittings for stationery drilling machines.

Automatic fitting for efficient, fast change of tools.

Self tightening mechanism automatically increases the grip in proportion to the increase in torque during the drilling and avoids the tool slipping in clockwise rotation.

Fits tools of up to 20mm in diameter.

Machine fitting via DIN-238 or Jacobs tapers and UNF thread fittings.



Manufactured in Spain

Model	Capacity	Mount		Sizes mm			Equivalent	
No.	mm		O	L1	L2	size	List \$	
CKS-04 J-1	0,5-4	J1	26	50	55	-	\$243.00	
CKS-06 R-3/8	0,5-6,5	3/8-24	34	63	70	-	\$209.00	
CKS-06 J-1	0,5-6,5	J1	34	63	70	-	\$211.00	
CKS-08 J-2S	0,8-8	J2	37	72	78	-	\$214.00	
CKS-10 J-2	0,8-10	J2	40	79	86	-	\$249.60	
CKS-10 R-3/8	0,8-10	3/8-24	37	72	78	-	\$228.00	
CKS-13 B-16	1-13mm	B-16	47	93	103	-	\$280.00	
CKS-13 J-2	1-13mm	J2	47	93	103	-	\$280.00	
CKS-13 J-33	1-13mm	J33	47	93	103	-	\$282.00	
CKS-13 J-6	1-13mm	J6	47	93	103	33366	\$279.00	
CKS-13 R-1/2	2-13 mm	1/2-20	40	76	83	33363D	\$249.60	
CKS-13 R-3/8	2-13 mm	3/8-24	40	76	83	-	\$249.60	
CKS-16 B-16	3-16mm	B-16	52	95	105	-	\$334.00	
CKS-16 B-18	3-16mm	B-18	52	95	105	-	\$334.00	
CKS-16 J-6	3-16mm	J-6	52	95	105	33370	\$331.00	
CKS-16 R-1/2	3-16mm	1/2-20	52	95	105	-	\$331.00	
CKS-16 R-5/8	3-16mm	5/8-16	52	95	105	-	\$331.00	
CKS-20 J-3	5-20mm	J-3	64	121	131	-	\$515.00	

KEYLESS CHUCKS WITH MORSE TAPER ARBORS

Model No	Range	Mount	List \$
CKS-13-2MT	1 - 13mm	2 Morse Taper	\$318.70
CKS-13-3MT	1 - 13mm	3 Morse Taper	\$330.60
CKS-13-4MT	1 - 13mm	4 Morse Taper	\$363.30
CKS-16-2MT	3 - 16mm	2 Morse Taper	\$370.70
CKS-16-3MT	3 - 16mm	3 Morse Taper	\$382.60
CKS-16-4MT	3 - 16mm	4 Morse Taper	\$415.30

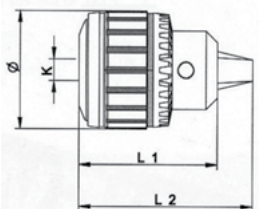


Note - Chucks supplied with arbor, they are not integral mounted.



DRILL CHUCKS - KEYED - INDUSTRIAL

KEYED INDUSTRIAL CHUCKS



Industrial drill chuck with key for stationary machines and portable drilling machines.

Specially designed for stationary drilling, turning, milling and wood working machines.

The one piece gear ring and sleeve eliminate the possibility of tooth breakage.

The jaws, gear ring and body are all totally hardened to avoid wear and lengthen the life of the drill chuck.

Fits tools of up to 19mm in diameter. (3/4")

Machine fitting via DIN-238 or Jacobs tapers and UNF screw fittings.



Manufactured in Spain

* Extra Heavy Duty Models

Model	Capacity	MOUNT		SIZES	MM		Equivalent	
No.	mm	K	Key	O	L1	L2	Size	List \$
CY-04 J-0	0,8-4	J-0	LK0	22	29	36	0	\$124.80
CY-06 J-1	0,8-6,5	J-1	LKC4	32	40	49	1A	\$131.00
CY-06 R-3/8	0,8-6,5	3/8-24	LKC4	32	42	52	1B3/8	\$124.80
CY-10 B-12	1-10mm	B-12	LS2	37	51	60		\$135.70
CY-10 B-16	1-10mm	B-16	LS2	43	53	68		\$135.70
CY-10 J-1	1-10mm	J-1	LS2	37	51	60	31-01	\$135.70
CY-10 J-2	1-10mm	J-2	LS2	37	51	60	2A	\$135.70
CY-10 R-3/8	1-10mm	3/8-24	LS2	37	51	60	41BA3/8	\$135.70
CY-10 R-1/2	1-10mm	1/2-20	LS2	37	51	60	41BA1/2	\$135.70
CY-13 B-16	1,5-13mm	B-16	LK2	46	62	77	-	\$175.00
CY-13 J-6	1,5-13mm	J-6	LK2	46	62	77		\$172.40
CYX-13 J-6*	1-13mm	J-6	LK3	53	69	89	34-06	\$189.00
CY-13 J-33	1,5-13mm	J-33	LK2	46	62	77	34-33	\$173.00
CY-13 R-3/8	1,5-13mm	3/8-24	LK2	46	62	77	33BA3/8	\$145.00
CY-13 R-1/2	1,5-13mm	1/2-20	LK2	46	62	77	33BA1/2	\$145.00
CY-13 R-5/8	1,5-13mm	5/8-16	LK2	46	62	77	33BA5/8	\$145.00
CY-16 J-3	1-16mm	J-3	LK3	57	77	95	3A	\$234.00
CY-16 B-16	1-16mm	B-16	LK3	57	77	95	-	\$234.00
CY-16 B-18	1-16mm	B-18	LK3	57	77	95	-	\$234.00
CY-16 J-6	1-16mm	J-6	LK3	57	77	95	-	\$234.00
CY-16 R-1/2	1-16mm	1/2-20	LK3	57	77	95	35B1/2	\$198.00
CY-16 R-5/8	1-16mm	5/8-16	LK3	57	77	95	3B5/8	\$198.00
CY-19 J-3	5-20mm	J-3	LK4	65	85	110	36	\$337.00
CY-19 R-3/4	5-20mm	3/4-16	LK4	68	85	110	36B3/4	\$337.00
CY-19 R-5/8	5-20mm	5/8-16	LK4	68	85	110	36B5/8	\$337.00

Simplify the ordering process.
Order the chuck complete
with the Morse Taper arbor
Manufactured in Spain

KEYED CHUCKS WITH MORSE TAPER ARBORS

Model No	Range	Mount	List \$
CY-13-2MT	1 - 13mm	2 Morse Taper	\$212.10
CY-13-3MT	1 - 13mm	3 Morse Taper	\$224.00
CY-16-2MT	1 - 16mm	2 Morse Taper	\$273.70
CY-16-3MT	1 - 16mm	3 Morse Taper	\$285.60
CY-16-4MT	1 - 16mm	4 Morse Taper	\$318.30
CY-19-3MT	5 - 20mm	3 Morse Taper	\$388.60
CY-19-4MT	5 - 20mm	4 Morse Taper	\$421.30

Note - Chucks supplied with arbor, they are not integral mounted.



ACCESSORIES

Chuck sold separately

SDS+ ADAPTOR

To fit a chuck with a 1/2-20 mount to an SDS power tool

Part No. CBSDS-1/2
LIST \$46.70



HEX ADAPTOR

Adapt a chuck with 1/4" Hex to 3/8-24 Thread
Part No. CB1/4HEX-3/8
LIST \$26.70



CHUCK KEYS



Part No.	Description	Pilot (mm)	Pilot (inches)	Teeth	List \$
LK0	CHUCK KEY SUIT CY-04 LLAMBRICH & 0 SERIES JACOBS	3.17	1/8"	11	\$10.60
LK0M	CHUCK KEY STAINLESS SUIT CSS-04 LLAMBRICH & 0 SERIES JACOBS	3.17	1/8	11	\$63.00
LK1M	CHUCK KEY STAINLESS SUIT CSS-06 LLAMBRICH & 1 SERIES JACOBS	3.97	5/32	11	\$98.00
LK1S7	CHUCK KEY SUIT 1 SERIES & S7 DIN	3.97	5/32"	11	\$12.90
LK2S17	CHUCK KEY SUIT CY-13 & 2 SERIES JACOBS	6.35	1.4"	11	\$10.60
LK30S8	CHUCK KEY SUIT CBB-08 LLAMBRICH & 41 SERIES & 8-1/2N JACOBS	5.95	-	10	\$14.00
LK32S9	CHUCK KEY SUIT CBB-10 LLAMBRICH & 33 SERIES & 11N JACOBS	6.35	-	10	\$14.00
LK3S10	CHUCK KEY SUIT CL-16, CYX-13, CY-16 LLAMBRICH & 3, 34 SERIES & 14N JACOBS	7.94	5/16"	11	\$14.70
LK4S13	CHUCK KEY SUIT CY-19, CBB-16, CBB-19 LLAMBRICH & 36 SERIES, 16N, 18N JACOBS	9.52	3/8"	12	\$29.40
LK5	CHUCK KEY SUIT CBB-25 LLAMBRICH & 20N JACOBS	11.11	7/16"	12	\$59.00
LK7	CHUCK KEY SUIT 7 SERIES JACOBS	5.55	7/32"	11	\$19.00
LKC4	CHUCK KEY TO SUIT CY-06 SERIES LLAMBRICH	5.42	7/32	12	\$16.95
LKGS14	CHUCK KEY SUIT CL-10 LLAMBRICH & 10MM JACOBS MULTICRAFT	6.5	9/32"	11	\$11.87
LKK	CHUCK KEY SUIT 22BA, 24BA, SERIES JACOBS	7.14	11/32"	10	\$10.90
LS1	CHUCK KEY SUIT ROHM PRIMA SERIES & LFA 4mm 6mm & 8mm	4.00	-	10	\$13.00
LS2	CHUCK KEY SUIT CL-13, CY-10 LLAMBRICH & ROHM PRIMA SERIES 8MM, 10MM, 13MM	6.00	-	12	\$10.40
LS3	CHUCK KEY DIN SERIES S3 8mm PILOT	8.00	-	12	\$23.00
LS4	CHUCK KEY SUIT ROHM PRIMA SERIES 20MM	9.00	-	14	\$51.00

INOX STAINLESS STEEL DRILL CHUCKS

The most complete Stainless Steel Drill Chuck Program, available in Keyed, Keyless, and also in Hybrid model types. For use in the medical, dental, and food industries

Manufactured from stainless steel to withstand corrosion. All FGE & GE models are bead blasted with glass balls and have passivation by a electro-polishing technique. This adds additional protection against all types of corrosion, eliminates undesirable residual contaminants, and improves the finish of the surface profile.

Model	Capacity	Mount		Sizes mm			
No.	mm	K	O1	O2	L1	Key	List \$
KEYED							
CSS-04-J0-GE	0.5 - 4mm	J0	22	28	35	LK0M	\$251.00
CSS-06R3/8-GE-DS	0.5 - 7.4mm	3/8-24	28.4	40	50.3	LK1M	\$369.50

Manufactured in Spain



SP SUPER PRECISION KEYLESS DRILL CHUCK

Model	Capacity	Mount		Sizes mm		
No.	mm		O	L1	L2	List \$
SP-13-J6	1-13mm	6JT	49	91	103	\$417.00
SP-16-J6	3-16mm	6JT	55	95	107	\$461.00

Manufactured in Spain



SPS-SOLID SUPER PRECISION KEYLESS DRILL CHUCK WITH INTEGRATED SHANK (MORSE TAPER)

Model	Capacity	Mount		Sizes mm		
No.	mm		O	L1	L2	List\$
SPS-13-MT2	1-13mm	2MT	48	80	92	\$549.00
SPS-13-MT3	1-13mm	3MT	48	80	92	\$561.00
SPS-16-MT3	3-16mm	3MT	54	85	96	\$638.00
SPS-16-MT4	3-16mm	4MT	54	85	96	\$670.00

Manufactured in Spain



ASL & AKL WRENCH LOCK & KEY LOCK SUPER PRECISION KEYLESS CHUCKS

Albrecht offers two drill chuck models designed specifically for CNC machining centres. ASL models have a wrench lock facility to allow extra tightening force to be applied. AKL models have a non-rotating hood - the chuck is opened & closed via a hex key inserted into the side of the body. Key-Lock models can be run forward & reverse and are the most accurate chucks available. Key-Lock models are excellent for use on CNC maching centres because sudden braking will not cause chuck to open.

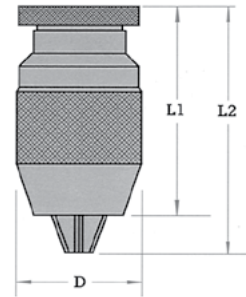


Model No	Capacity	Mount	List \$
ASL130-ISO40	1 - 13mm	ISO40	\$890.00
ASL130-BT40	1 - 13mm	BT40	\$890.00
ASL160-ISO40	1.5 - 16mm	ISO40	\$882.00
ASL160-BT40	1.5 - 16mm	BT40	\$862.00
AKL130-BT40	1 - 13mm	BT40	\$1060.00
AKL160-ISO50	1.5 - 16mm	ISO50	\$1260.00
AKL160-BT40	1.5 - 16mm	BT40	\$1080.00

ALBRECHT

SBF SUPER PRECISION KEYLESS CHUCKS

- Albrecht chucks incorporate a unique self-tightening feature, which causes them to grip drills tighter as more torque is applied.
- Even when high torque is applied, the chucks can be easily opened by hand.
- All parts exposed to wear are hardened and ground for accuracy and long life.



Manufactured in Germany



SBF SUPER DRILL CHUCK

Model	Capacity		Balanced	Unbalanced	
No.	Range	Mount	max RPM	max RPM	List \$
SBFC30-J0	0.2 - 3mm	J0	35,000	7,500	\$560.00
SBFC30-J1	0.2 - 3mm	J1	35,000	7,500	\$649.00
SBFC65-J1	0 - 6.5mm	J1	25,000	4,000	\$640.00
SBFC100-J2	0 - 10mm	J2	12,000	3,000	\$410.00
SBFC130-J6	1 - 13mm	J6	7,000	2,800	\$620.00
SBFC130-B16	1 - 13mm	B16	7,000	2,800	\$540.00
SBFC160-J6	3 - 16mm	J6	4,000	2,500	\$697.00
SBFC160-B16	3 - 16mm	B16	4,000	2,500	\$620.00

SBF-PLUS SUPER DRILL CHUCK

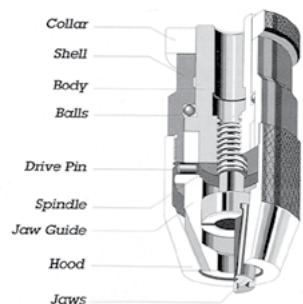
- Integral shank design is more compact than a combined drill chuck and arbor resulting in:
GREATER ACCURACY
GREATER RIGIDITY
LARGER WORK ENVELOPE
- Integral shank eliminates the possibility of a chuck slipping on its arbor

Model	Capacity	Shank	Open	Closed	Sleeve	
No.	Range	Type	L1	L2	D	List \$
SBFP130-MT2	1 - 13mm	MT2	86mm	98.5mm	50mm	\$591.00
SBFP130-MT3	1 - 13mm	MT3	86mm	98.5mm	50mm	\$602.00
SBFP130-R8	1 - 13mm	R8	88mm	97mm	50mm	\$750.00
SBFP160-MT3	3 - 16mm	MT3	90mm	104mm	57mm	\$675.00
SBFP160-MT4	3 - 16mm	MT4	92mm	104mm	57mm	\$700.00
SBFP160-R8	3 - 16mm	R8	89mm	100mm	57mm	\$835.00

REPLACEMENT PARTS

Description	Part No.	List \$
Jaw set 13mm	1060130 000	\$127.00
Jaw set 16mm	1060160 000	\$145.00
Body & spindle 13mm J6	1240130 J06	\$119.60
Body & spindle 16mm J6	1240160 J06	\$135.00

Other spares are carried ex-stock. Price on application



INDUSTRIAL TOOLHOLDERS

ARBORS

Features

- Precision machined and ground for maximum performance.
- Ideal for use with custom tool and work holder designs.



MORSE TAPERS

Morse			
Taper No.	D-1 mm	D-2 mm	L-1 mm
1	12.065	9.70	65.5
2	17.780	14.90	80
3	23.825	20.20	99
4	31.267	26.50	124
5	44.399	38.20	156
6	63.348	54.60	218

JACOBS TAPERS

Jacobs			
Taper No.	D-3 mm	D-4 mm	L-2 mm
0	6.350	5.802	11.112
1	9.754	8.469	16.669
2 short	13.940	12.386	19.050
2	14.199	12.386	22.225
33	15.850	14.237	25.400
6	17.170	15.582	25.400
3	20.599	18.951	30.956
4	28.550	26.346	42.069
5	35.890	33.422	47.625

DIN (METRIC) TAPERS

DIN			
Taper No.	D-3 mm	D-4 mm	L-2 mm
B10	10.094	9.40	14.50
B12	12.065	11.10	18.50
B16	15.733	14.50	24.00
B18	17.780	16.20	32.00
B22	21.793	19.80	40.50
B24	23.825	21.30	50.50

MORSE TO JACOBS & DIN (B) TAPERS

Part	Equivalent	Description	Overall	List \$
No.	Size		Length mm	
MT0JT0	-	0 Morse x 0JT	75mm	\$81.00
MT1JT0	-	1 Morse x 0JT	80mm	\$63.00
MT1JT1	-	1 Morse x 1JT	84mm	\$36.70
MT1JT2	A0102	1 Morse x 2JT	91mm	\$36.70
MT1JT6	A0106	1 Morse x 6JT	95mm	\$36.70
MT1JT33	-	1 Morse x 33JT	95mm	\$36.70
MT2JT1	A0201	2 Morse x 1JT	101mm	\$39.70
MT2JT2	A0202	2 Morse x 2JT	106mm	\$39.70
MT2JT3	A0203	2 Morse x 3JT	113mm	\$39.70
MT2JT4	A0204	2 Morse x 4JT	125mm	\$51.40
MT2JT6	A0206	2 Morse x 6JT	107mm	\$39.70
MT2JT33	-	2 Morse x 33JT	109mm	\$39.70
MT3JT1	-	3 Morse x 1JT	119mm	\$51.60
MT3JT2	A0302	3 Morse x 2JT	125mm	\$51.60
MT3JT3	A0303	3 Morse x 3JT	134mm	\$51.60
MT3JT4	A0304	3 Morse x 4JT	145mm	\$51.60
MT3JT5	A0305	3 Morse x 5JT	151mm	\$141.00
MT3JT6	A0306	3 Morse x 6JT	129mm	\$51.60
MT3JT33	-	3 Morse x 33JT	129mm	\$51.60
MT4JT2	-	4 Morse x 2JT	150mm	\$84.30
MT4JT3	-	4 Morse x 3JT	159mm	\$84.30
MT4JT4	A0404	4 Morse x 4JT	170mm	\$84.30
MT4JT5	-	4 Morse x 5JT	175mm	\$84.30
MT4JT6	A0406	4 Morse x 6JT	153mm	\$84.30
MT4JT33	-	4 Morse x 33JT	154mm	\$84.30
MT5JT3	A0503	5 Morse x 3JT	191mm	\$170.00
MT5JT4	A0504	5 Morse x 4JT	202mm	\$170.00
MT5JT5	-	5 Morse x 5JT	207mm	\$170.00
MT5JT6	-	5 Morse x 6JT	187mm	\$170.00
MT1B10	-	1 Morse x B10	85mm	\$39.70
MT1B12	-	1 Morse x B12	88mm	\$39.70
MT1B16	-	1 Morse x B16	93mm	\$39.70
MT2B10	-	2 Morse x B10	98mm	\$39.70
MT2B12	-	2 Morse x B12	102mm	\$39.70
MT2B16	-	2 Morse x B16	108mm	\$39.70
MT2B18	-	2 Morse x B18	116mm	\$39.70
MT3B12	-	3 Morse x B12	121mm	\$51.60
MT3B16	-	3 Morse x B16	127mm	\$51.60
MT3B18	-	3 Morse x B18	135mm	\$51.60
MT3B22	-	3 Morse x B22	143mm	\$49.50
MT4B16	-	4 Morse x B16	152mm	\$81.00
MT4B18	-	4 Morse x B18	160mm	\$81.00
MT4B22	-	4 Morse x B22	168mm	\$81.00
MT5B16	-	5 Morse x B16	184mm	\$170.00
MT5B18	-	5 Morse x B18	192mm	\$170.00



EXTENSION SOCKETS - MORSE TAPER

Hardened Tang, accurately ground externally.

Part	Equivalent	Morse	Taper	
No.	Size	Outside	Inside	List \$
XMT1MT1	-	1	1	\$132.00
XMT1MT2	-	1	2	\$161.20
XMT2MT1	821	2	1	\$161.20
XMT2MT2	-	2	2	\$161.20
XMT2MT3	-	2	3	\$170.00
XMT3MT1	831	3	1	\$170.00
XMT3MT2	832	3	2	\$184.00
XMT3MT3	-	3	3	\$191.50
XMT3MT4	-	3	4	\$244.00
XMT4MT1	-	4	1	\$214.00
XMT4MT2	842	4	2	\$214.00
XMT4MT3	843	4	3	\$229.00
XMT4MT4	-	4	4	\$258.00
XMT4MT5	-	4	5	\$345.00
XMT5MT1	-	5	1	\$410.00
XMT5MT2	-	5	2	\$410.00
XMT5MT3	853	5	3	\$410.00
XMT5MT4	854	5	4	\$410.00
XMT5MT5		5	5	\$495.00



EJECTING DRIFTS

To eject Morse Tapers from sleeves, sockets and machine spindles.

✓ Hardened and tempered

Part		
No.	To Eject	List \$
EDMT0	0 Morse Taper	\$17.20
EDMT12	1 & 2 Morse Taper	\$18.20
EDMT34	3 & 4 Morse Taper	\$27.00
EDMT45	4 & 5 Morse Taper	\$45.00
EDMT6	6 Morse Taper	\$78.00
DD1MTA	1 Morse Taper	\$10.40
DD2MTA	2 Morse Taper	\$12.50
DD3MTA	3 Morse Taper	\$14.60
DD4MTA	4 Morse Taper	\$22.50
DD5MTA	5 Morse Taper	\$35.40
DD1-2MTEA	1 & 2 Morse Taper	\$16.70
DD2-3MTEA	2 & 3 Morse Taper	\$16.70
DD3-4MTEA	3 & 4 Morse Taper	\$26.00



ARBORS - CONTINUED

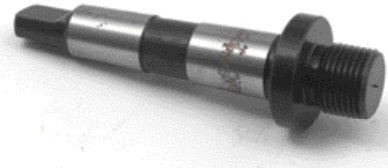
Straight Shank to Jacobs Taper

Part	Equivalent	Overall		
No.	Size	Description	Length mm	List \$
SS6JT0	-	6mm x 0JT	46mm	\$81.00
SS3/8JT0	-	3/8 x 0JT	79mm	\$124.80
SS1/2JT0	-	1/2 x 0JT	79mm	\$81.00
SS1/2JT1	-	1/2 x 1JT	84mm	\$81.00
SS1/2JT2	-	1/2 x 2JT	90mm	\$81.00
SS1/2JT3	-	1/2 x 3JT	98mm	\$81.00
SS1/2JT33	-	1/2 x 33JT	93mm	\$81.00
SS1/2JT6	-	1/2 x 6JT	93mm	\$81.00
SS5/8JT1	-	5/8 x 1JT	84mm	\$81.00
SS5/8JT2	-	5/8 x 2JT	90mm	\$81.00
SS5/8JT3	-	5/8 x 3JT	98mm	\$81.00
SS5/8JT33	-	5/8 x 33JT	93mm	\$81.00
SS5/8JT6	-	5/8 x 6JT	93mm	\$81.00
SS3/4JT2	-	3/4 x 2JT	102mm	\$81.00
SS3/4JT3	-	3/4 x 3JT	111mm	\$81.00
SS3/4JT6	-	3/4 x 6JT	106mm	\$81.00
SS1JT3	-	1 x 3JT	111mm	\$81.00
SS1JT6	-	1x 6JT	106mm	\$81.00
SS20JT6	-	20mm x 6JT	105mm	\$168.00
SS25JT6	-	25mm x 6JT	105mm	\$174.00
SS32JT6	-	32mm x 6JT	130mm	\$187.20



Morse Taper to Threaded Shank

Part	Equivalent		Overall	
No.	Size	Description	Length mm	List \$
MT2T3/8	A0261	2 Morse x 3/8-24	94mm	\$72.00
MT2T1/2	A0264	2 Morse x 1/2-20	103mm	\$72.00
MT2T5/8	A0268	2 Morse x 5/8-16	106mm	\$71.80
MT2T3/4	-	2 Morse x 3/4-16	106mm	\$69.00
MT3T1/2	-	3 Morse x 1/2-20	122mm	\$92.00



Bridgeport (R-8) Taper to Jacobs Taper

Part	Equivalent		Overall	
No.	Size	Description	Length mm	List \$
R8JT2	-	R-8 Bridgeport x 2JT	132mm	\$110.20
R8JT3	-	R-8 Bridgeport x 3JT	140mm	\$110.20
R8JT6	-	R-8 Bridgeport x 6JT	135mm	\$110.20
R8B16	-	R-8 Bridgeport x B16	135mm	\$110.20



MORSE TAPER TO JACOBS TAPER			
Part No.	Morse Taper	Jacobs Taper	List \$
CA0MT0JT	0	0	\$47.00
CA1MT0JT	1	0	\$51.00
CA1MT1JT	1	1	\$34.00
CA1MT2JT	1	2	\$34.00
CA1MT3JT	1	3	\$39.00
CA1MT6JT	1	6	\$24.00
CA1MT33J	1	33	\$34.00
CA2MT0JT	2	0	\$37.00
CA2MT1JT	2	1	\$24.50
CA2MT2JT	2	2	\$24.50
CA2MT3JT	2	3	\$24.50
CA2MT4JT	2	4	\$69.50
CA2MT5JT	2	5	\$152.00
CA2MT6JT	2	6	\$25.70
CA2MT33J	2	33	\$24.50
CA3MT1JT	3	1	\$49.00
CA3MT2JT	3	2	\$31.20
CA3MT3JT	3	3	\$30.00
CA3MT4JT	3	4	\$31.20
CA3MT5JT	3	5	\$102.00
CA3MT6JT	3	6	\$30.00
CA3MT33T	3	33	\$31.20
CA4MT2JT	4	2	\$61.00
CA4MT3JT	4	3	\$59.00
CA4MT4JT	4	4	\$73.00
CA4MT5JT	4	5	\$83.00
CA4MT6JT	4	6	\$60.00
CA4MT33J	4	33	\$63.00
CA5MT3JT	5	3	\$145.50
CA5MT4JT	5	4	\$173.00
CA5MT5JT	5	5	\$189.00
CA5MT6JT	5	6	\$124.00
CA6MT3JT	6	3	\$255.00
CA6MT6JT	6	6	\$255.00
ROUND SHANK TO JACOBS TAPER			
Part No.	Diameter	Jacobs Taper	List \$
CA1/2-0J	1/2"	0	\$69.00
CA1/2-1J	1/2"	1	\$61.00
CA1/2-2J	1/2"	2	\$61.00
CA1/2-3J	1/2"	3	\$61.00
CA1/2-6J	1/2"	6	\$61.00
CA1/2-33J	1/2"	33	\$61.00
CA5/8-1J	5/8"	1	\$61.00
CA5/8-2J	5/8"	2	\$61.00
CA5/8-3J	5/8"	3	\$61.00
CA5/8-4J	5/8"	4	\$61.00
CA5/8-6J	5/8"	6	\$61.00
CA5/8-33J	5/8"	33	\$61.00
CA3/4-2J	3/4"	2	\$61.00
CA3/4-3J	3/4"	3	\$61.00
CA3/4-4J	3/4"	4	\$61.00
CA3/4-6J	3/4"	6	\$61.00
CA3/4-33J	3/4"	33	\$61.00
CA1-3J	1"	3	\$101.00
CA1-4J	1"	4	\$101.00

MORSE TAPER TO BLANK END			
Part No.	Morse Taper	Blank End Dimensions	List \$
CA1MTBLANK	1	22mm x 29mm	\$51.00
CA2MTBLANK	2	25mm x 36mm	\$57.00
CA3MTBLANK	3	25mm x 36mm	\$64.20

Discontinued
when current
stocks depleted

MORSE TAPER TO DIN TAPER			
Part No.	Morse Taper	DIN Taper	List \$
CA1MTB10A	1	B10	\$34.00
CA1MTB12A	1	B12	\$34.00
CA1MTB16A	1	B16	\$34.00
CA1MTB18A	1	B18	\$34.00
CA2MTB10A	2	B10	\$29.00
CA2MTB12A	2	B12	\$29.00
CA2MTB16A	2	B16	\$29.00
CA2MTB18A	2	B18	\$29.00
CA2MTB22A	2	B22	\$41.00
CA3MTB12A	3	B12	\$31.20
CA3MTB16A	3	B16	\$31.20
CA3MTB18A	3	B18	\$31.20
CA3MTB22A	3	B22	\$45.00
CA3MTB24A	3	B24	\$54.00
CA4MTB16A	4	B16	\$63.00
CA4MTB18A	4	B18	\$63.00
CA4MTB22A	4	B22	\$72.00
CA4MTB24A	4	B24	\$91.00
CA5MTB16A	5	B16	\$129.00
CA5MTB18A	5	B18	\$129.00
CA5MTB22A	5	B22	\$149.00
CA5MTB24A	5	B24	\$178.00



ROUND SHANK TO DIN TAPER			
Part No.	Diameter	DIN Taper	List \$
CA1/2-B16	1/2"	B16	\$67.00
CA1/2-B18	1/2"	B18	\$67.00
CA5/8-B16	5/8"	B16	\$64.20



MORSE TAPER TO THREADED SHANK				
Part No.	Morse Taper	Thread	Comment	List \$
CA1MT3/8TA	1	3/8-24		\$47.00
CA1MT1/2TA	1	1/2-20		\$47.00
CA1MT5/8TA	1	5/8-16		\$47.00
CA2MT3/8TA	2	3/8-24		\$48.00
CA2MT1/2TA	2	1/2-20		\$51.00
CA2MT5/8TA	2	5/8-16		\$57.00
CA3MT3/8TA	3	3/8-24		\$56.00
CA3MT1/2TA	3	1/2-20		\$56.00
CA3MT5/8TA	3	5/8-16		\$56.00
R-8 (BRIDGEPORT) TO JACOBS AND DIN TAPERS				
Part No.	Bridgeport	Taper	Drawbar Thread	List \$
CAR82JTA	R-8	2 Jacobs	7/16 UNF	\$129.00
CAR83JTA	R-8	3 Jacobs	7/16 UNF	\$129.00
CAR86JTA	R-8	6 Jacobs	7/16 UNF	\$129.00
CAR8B16	R-8	B16 DIN	7/16 UNF	\$131.00
CAR8B18	R-8	B18 DIN	7/16 UNF	\$131.00

TURRET SOCKETS			
Part No.	Morse Taper	Diameter	List \$
SOC1MTX1	1	1"	\$63.00
SOC1MTX1.5	1	1-1/2"	\$63.00
SOC2MTX1	2	1"	\$65.00
SOC2MTX1.25	2	1-1/4"	\$70.00
SOC2MTX1.5	2	1-1/2"	\$74.00
SOC2MTX2	2	2"	\$83.00
SOC3MTX1.25	3	1-1/4"	\$88.00
SOC3MTX1.5	3	1-1/2"	\$88.00
SOC3MTX2	3	2"	\$99.00
SOC4MTX1.5	4	1-1/2"	\$112.00
SOC4MTX2	4	2"	\$121.00





DRILL SLEEVES ECONOMY RANGE *Manufactured in India*



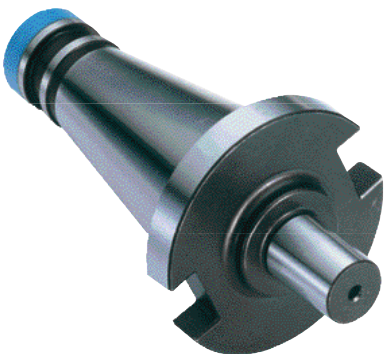
MORSE TAPER GROUND INSIDE AND OUT			
	Outside	Inside	
Part No.	Morse Taper	Morse Taper	List \$
DSMT1-0A	1	0	\$49.00
DSMT2-1A	2	1	\$23.50
DSMT3-1A	3	1	\$29.00
DSMT3-2A	3	2	\$29.00
DSMT4-1A	4	1	\$38.50
DSMT4-2A	4	2	\$35.30
DSMT4-3A	4	3	\$35.30
DSMT5-2A	5	2	\$57.00
DSMT5-3A	5	3	\$57.00
DSMT5-4A	5	4	\$57.00
DSMT6-2A	6	2	\$171.00
DSMT6-3A	6	3	\$171.00
DSMT6-4A	6	4	\$171.00
DSMT6-5A	6	5	\$171.00



EXTENSION SOCKETS MORSE TAPER				
	Outside	Inside		
Part No.	Morse Taper	Morse Taper	Length	List \$
ESMT1M-1F	1	1	145mm	\$146.00
ESMT1M-2F	1	2	159mm	\$149.00
ESMT1M-3F	1	3	180mm	\$156.00
ESMT2M-1F	2	1	160mm	\$156.00
ESMT2M-2F	2	2	176mm	\$156.00
ESMT2M-3F	2	3	195mm	\$156.00
ESMT2M-4F	2	4	220mm	\$156.00
ESMT3M-1F	3	1		\$156.00
ESMT3M-2F	3	2	194mm	\$156.00
ESMT3M-3F	3	3	215mm	\$171.00
ESMT3M-4F	3	4	239mm	\$203.00
ESMT3M-5F	3	5	270mm	\$219.00
ESMT4M-2F	4	2	215mm	\$203.00
ESMT4M-3F	4	3	240mm	\$213.00
ESMT4M-4F	4	4	265mm	\$249.00
ESMT4M-5F	4	5	300mm	\$296.00
ESMT4M-6F	4	6	375mm	\$300.00
ESMT5M-3F	5	3	295mm	\$312.00
ESMT5M-4F	5	4	295mm	\$312.00
ESMT5M-5F	5	5	335mm	\$330.00
ESMT5M-6F	5	6	400mm	\$487.00
ESLMT1-300	1	1	300mm	\$179.00
ESLMT2-300	2	2	300mm	\$215.00
ESLMT3-350	3	3	350mm	\$245.00
ESLMT4-350	4	4	350mm	\$289.00



NT (ISO) & BT DRILL CHUCK ARBORS



Part		Drawbar	Overall	
No.	Description	Thread	Length	List \$
SY81512	NT30 x B16	M12 x 1.75	111	\$191.52
SY81533	NT30 x JT3	M12 x 1.75	111	\$197.12
SY81536	NT30 x JT6	M12 x 1.75	111	\$194.88
SY81513	NT40 x B16	M16 x 2.0	139	\$259.80
SY81543	NT40 x JT3	M16 x 2.0	138	\$278.88
SY81546	NT40 x JT6	M16 x 2.0	138	\$268.80
SY81514	NT50 x B16	M24 x 3.0	175	\$406.56
SY16506	BT30 x JT6	M12 x 1.75	117	\$254.24
SY16524	BT40 x JT6	M16 x 2.0	175	\$343.84



DRILL SLEEVES R-8 (BRIDGEPORT TAPER)

To enable the use of Morse taper shank tools on Bridgeport taper milling machines

Part No.	Description	Overall length	List \$
SY81201	R8 x MT1	124mm	\$106.40
SY81202	R8 x MT2	136.5mm	\$97.44
SY81203	R8 x MT3	150mm	\$98.68



MILLING MACHINE ADAPTORS

Used to permit the use of Morse taper shank tools in machines with NT (ISO) tapers

Part No.	Description	Drawbar Thread	Overall length	List \$
SY82900	NT30 x MT2	M12 x 1.75	124mm	\$274.40
SY82901	NT30 x MT3	M12 x 1.75	142mm	\$299.04
SY82902	NT40 x MT2	M16 x 2.0	118mm	\$319.20
SY82903	NT40 x MT3	M16 x 2.0	140mm	\$347.20



MAXIPRESS PISTON CLAMPS

Ergonomically shaped handle interchangeable & multi positionable
Concealed and protected threads and piston system.
Grooved fixed jaw for optimum grip of tubes, profiles, etc.Curved jaw heads which allow work around edges and protrusions.
Positioning system to hold and prevent free fall of moving jaw

Covered screwthread fully protected against all outside contact - welding & concrete blobs etc. Double threaded screw enhancing both pressure & speed

Part No.	Capacity	Throat Depth	Bar	Clamp Force	List \$
PH60025	25cm	12cm	35 x 8mm	9000N	\$117.00
PH60030	30cm	12cm	35 x 8mm	9000N	\$125.16
PH60040	40cm	12cm	35 x 8mm	9000N	\$136.16
PH60060	60cm	12cm	35 x 8mm	9000N	\$158.26
PH60080	80cm	12cm	35 x 8mm	9000N	\$182.87



PISTON CLAMPS E-F-R

Cast Iron Jaws
Extra resistant rolled steel bar (90kg/mm2)
Nonslip brake on moving jaw
Anti rust coated bar
New loss prevention brake system in models F & R

Part No.	Capacity	Throat Depth	Bar	Clamp Force	Range	List \$
PH03020	20cm	8.5cm	30 x 8mm	9000N	E	\$83.58
PH03025	25cm	8.5cm	30 x 8mm	9000N	E	\$89.71
PH03030	30cm	8.5cm	30 x 8mm	9000N	E	\$95.17
PH04025	25cm	12cm	35 x 8mm	9000N	F	\$100.21
PH04030	30cm	12cm	35 x 8mm	9000N	F	\$105.67
PH04060	60cm	12cm	35 x 8mm	9000N	F	\$133.64
PH05025	25cm	15cm	40 X 10mm	10000N	R	\$171.86
PH05050	50cm	15cm	40 X 10mm	10000N	R	\$196.22
PH05060	60cm	15cm	40 X 10mm	10000N	R	\$205.46
PH05100	100cm	15cm	40 X 10mm	10000N	R	\$242.51
PH05150	150cm	15cm	40 X 10mm	10000N	R	\$279.80



DEEP THROAT CLAMP: NEW
K SERIES

Cast Iron Jaws
Special deep throat jaw 30 cm
Extra resistant rolled steel bar 35x 8 mm
Maximum pressure 5000N
Throat deep 30 cm
Nonslip brake on moving jaw.
New fall prevention brake system



Part No.	Capacity	Throat Depth	Bar	Clamp Force	List \$
PH06030	30cm	30cm	30 x 10mm	5000N	\$354.31
PH06040	40cm	30cm	40 x 10mm	5000N	\$366.07
PH06050	50cm	30cm	50 x 10mm	5000N	\$377.83



CLAMP Z SERIES

Zinc coated gauged steel bar
Nonslip brake on moving jaw
Covered screw thread for longer life
Malleable cast iron jaws



Part No.	Capacity	Throat Depth	Bar	Clamp Force	List \$
PH22015	15cm	7cm	18 x 7mm	4000N	\$60.13
PH22020	20cm	7cm	18 x 7mm	4000N	\$63.84

PIHER PROPS
MULTI PROP CARGO BARS

Tilting non-slip pads adjustable to any angle. 1mm thick steel tubes. Completely weatherproof. Nylon fibreglass reinforced handle

Part No.	Contracted	Extended	List \$
PH30010	60cm	100cm	\$139.69
PH30011	95cm	170cm	\$157.50
PH30012	155cm	290cm	\$171.28
PH34050	Suits all Piher Multi Props		\$186.82



Tripod accessory
PH34050

SASH CLAMPS

Cast Iron Jaws
Extra resistant rolled steel bar
Anti-Rust coated bar with Epoxy painted jaws



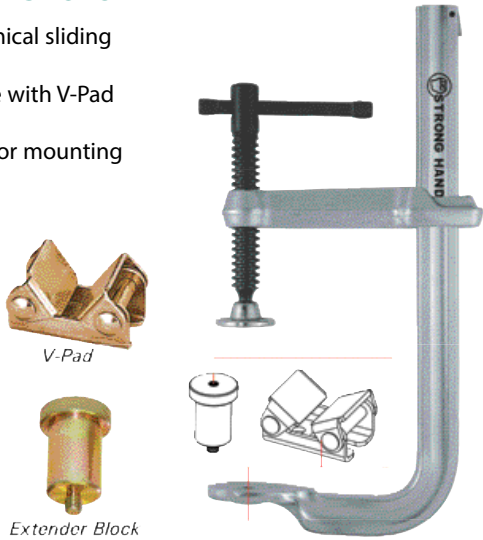
Part No.	Size	Throat Depth	Bar	Clamp Force	List \$
PH23100	100cm	6cm	40 x 10mm	25000N	\$279.64
PH23150	150cm	6cm	40 x 10mm	25000N	\$332.81
PH23200	200cm	6cm	40 x 10mm	25000N	\$386.06

4-IN-1™ UTILITY CLAMPING SYSTEM



ONE CLAMP - FOUR FUNCTIONS

The most versatile & economical sliding arm clamp available
Each clamp comes complete with V-Pad and Extender Block
Threaded hole on the base for mounting attachments
Removable, reversible arm for spreading



Part No.	Capacity	Throat Depth	Clamp Force	Pads	Tapped Hole	Weight	List \$
UD45M-C3	115 mm	80 mm	230 kg	Standard	M8	0.6 kg	\$33.50
UF65M-C3	165 mm	120 mm	460 kg	Standard	M10	1.3 kg	\$59.80
UG85M-C3	215 mm	120 mm	550 kg	Standard	M10	1.9 kg	\$68.90
UM105PM-C3	265 mm	140 mm	1,100 kg	Standard	M10	3.4 kg	\$113.00
UM125M-C3	320 mm	140 mm	1,100 kg	Heavy Duty	M10	3.5 kg	\$171.00
UM205M-C3	520 mm	140 mm	1,100 kg	Heavy Duty	M10	4.5 kg	\$221.80

LIGHT DUTY SERIES

Part No.	Capacity	Throat Depth	Clamp Force	Pads	Tapped Hole	Weight	List \$
UG1257M	320mm	180mm	350kg	Standard	M10	2.7kg	\$78.62
UG1657M	420mm	180mm	350kg	Standard	M10	3.0kg	\$92.00
UG2057M	520mm	180mm	350kg	Standard	M10	3.2kg	\$105.62

SUPER HEAVY DUTY SERIES

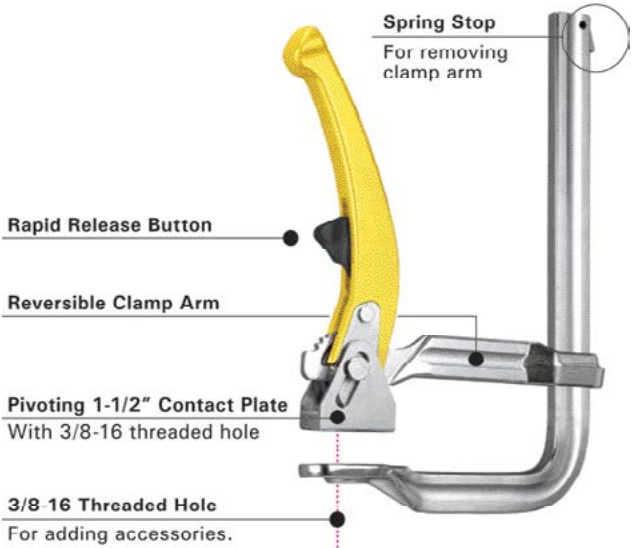
Extra Large, Extra Strong, Sliding Arm Clamps
Oversize, heavy duty swivel pad
Durable 42 x 20mm cross section
Hex head to allow extra tightening
V-Pads & Extension Blocks sold separately



Part No.	Capacity	Throat Depth	Clamp Force	Pads	Tapped Hole	Weight	List \$
UP125M	320 mm	180 mm	2,200 kg	Heavy Duty	M10	5.6 kg	\$301.30
UP165M	420 mm	180 mm	2,200 kg	Heavy Duty	M10	6.2 kg	\$318.60
UP205M	520 mm	180 mm	2,200 kg	Heavy Duty	M10	6.8 kg	\$342.30
UP245M	620 mm	180 mm	2,200 kg	Heavy Duty	M10	7.5 kg	\$352.00
UP315M	800 mm	180 mm	2,200 kg	Heavy Duty	M10	7.6 kg	\$370.40
UP405M	1,020 mm	180 mm	2,200 kg	Heavy Duty	M10	10.0kg	\$398.50
UP605M	1,540 mm	180 mm	2,200 kg	Heavy Duty	M10	10.0kg	\$483.00

RATCHET ACTION CLAMPS

Ratchet mechanism ensures rapid, vibration and torsion resistant clamping.



Part No.	Capacity	Clamp Force	List \$
UF65RM	178 mm	450 kg	\$92.50
UF100RM	254 mm	450 kg	\$109.00
UF100JRM#	254 mm	450 kg	\$122.40

J Shaped for stepover applications



MAGSPRING CLAMPS

The spring-loaded, one-handed clamp with quick-set magnetic V-Pad.
The Spring Loaded Arm allows users to free up one hand to position the workpiece.



Part No	Capacity	Throat Depth	Pull Force	List \$
UDV45M	90mm	83mm	230kg	\$36.00
UDV65M	140mm	83mm	230kg	\$37.00



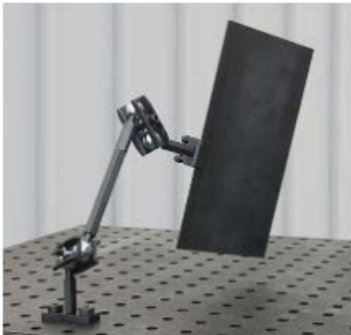
THIRD HAND MODULAR CLAMP

Fully Articulated. Fully Adjustable.

“Third Hand” positions your workpiece at any angle for full weld access. Use your THIRD HAND to elevate and firmly hold stock at the ideal angle and height while you weld, cut, sand or paint. Securely hold stock at any position with ball joint adjustment and locking.
Slotted Adaptor Head accepts Pliers or Clamps to hold round, flat, square or angled stock. Two screws securely hold parts or clamps in position.



Part No.	Description	List \$
HAS40	Universal Clamp Welding Table Base	\$116.64
HAS42	Universal Clamp Base Mount	\$99.90



WELDERS ANGLE CLAMPS - TWO AND THREE AXIS

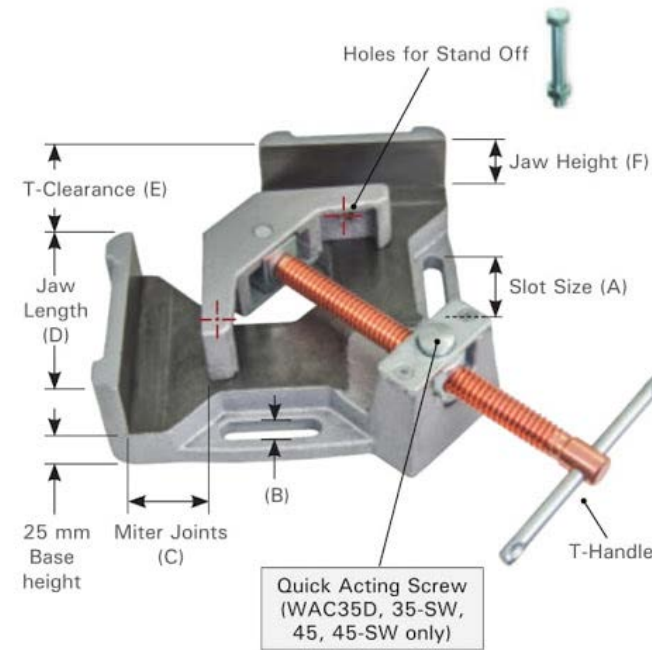
2-AXIS CLAMPS

The best, secure, right angle clamping vise.
Manufactured from machined cast iron.

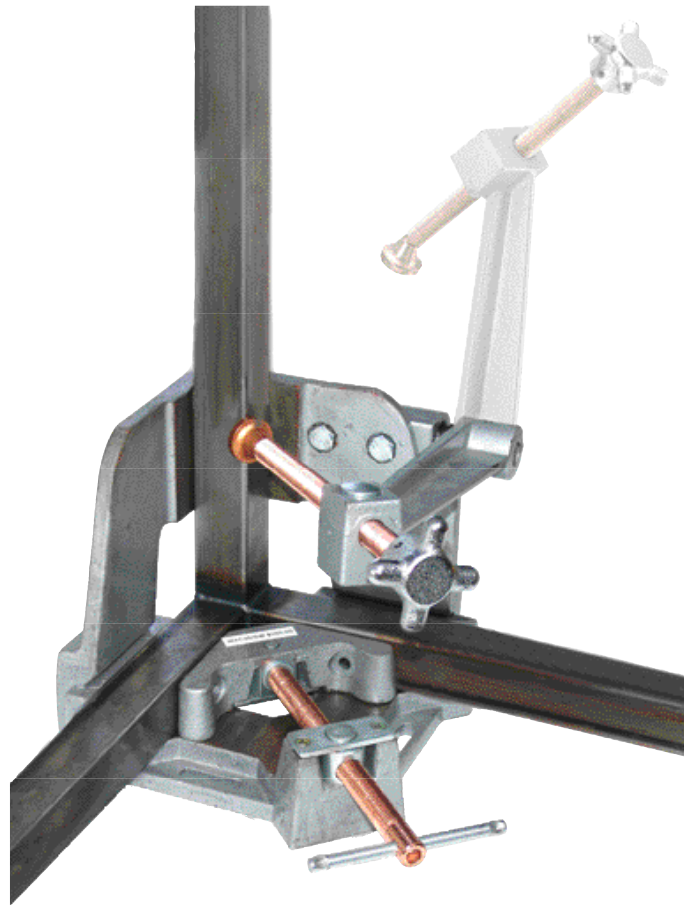
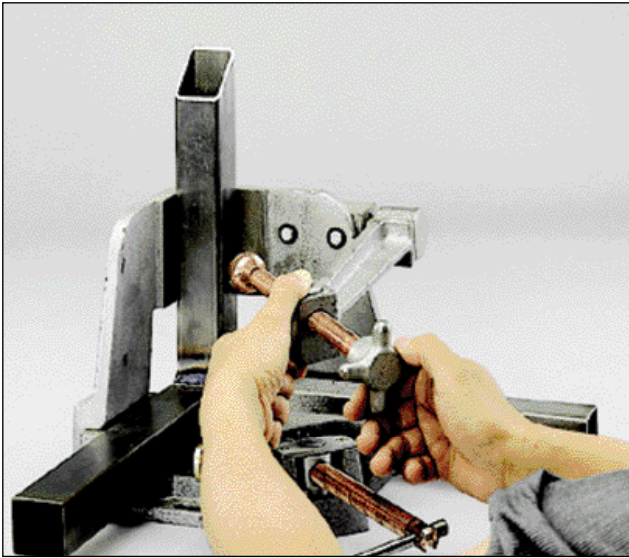
Machined outside faces - usable for upright joints

Quick acting screw button for faster set up

Stand-Off increases access



Part No.	Mitre Joints (A)	Jaw Length (B)	T-Clearance	Jaw Height (D)	List \$
WAC35D	95 mm	122 mm	62 mm	35 mm	\$291.60
WAC45	121 mm	135 mm	100 mm	57 mm	\$510.00



3-AXIS CLAMPS

All the features of the 2-axis clamp, plus a third arm which swings out to allow quick and easy removal.

Holds a three axis workpiece in position for welding and leave clamped during cool down to minimize distortion due to contraction.

Part No.	Mitre Joints (A)	Jaw Length (B)	T-Clearance	Jaw Height (D)	List \$
WAC35-SW	95 mm	122 mm	62 mm	35 mm	\$590.00
WAC45-SW	121 mm	135 mm	100 mm	57 mm	\$1050.00

Magnet Rest Blocks to Suit 3-Axis Clamps **\$18.75 (Pair)**



PIPE ALIGNMENT CLAMP

TWO SIZES, THREE SIMPLE INSTRUCTIONS

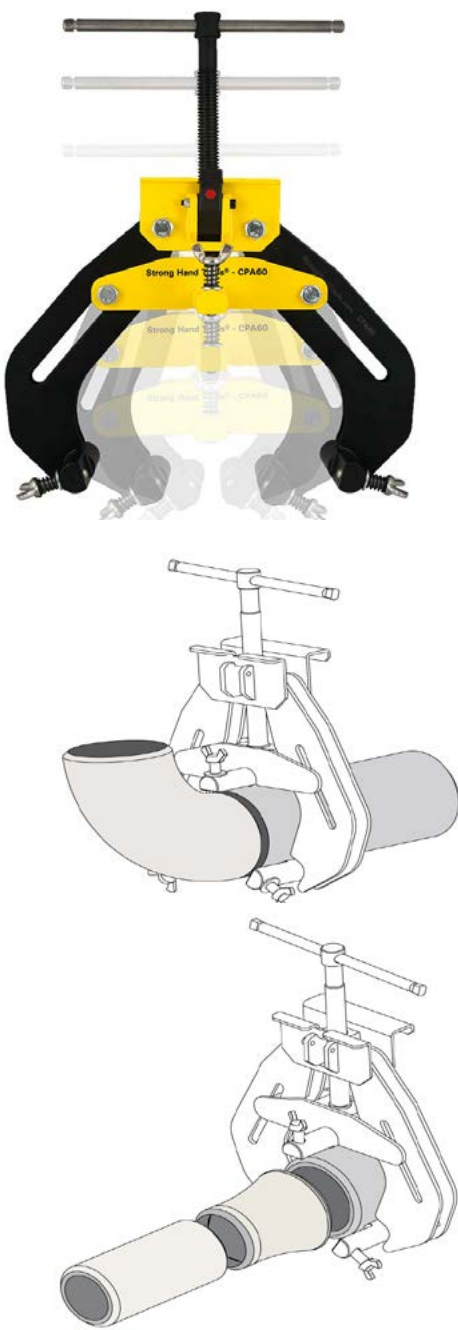
PRESS - SLIDE - SET

The New Pipe Alignment Clamp with Quick-Acting Screw is a fast, accurate fit-up clamp with a rugged frame for use in the shop, or at the job site.

Get a well-balanced hold on the Pipe Alignment Clamp with the two wide Grip Plates while pressing the Quick-Acting Button. The threaded screw smoothly glides up and down for fast jaw opening and clamp removal after welding.

The long life clamp is made of double-walled powder coated steel. Align pipe for joining pipe to elbow, pipe to tee, or pipe to flange.

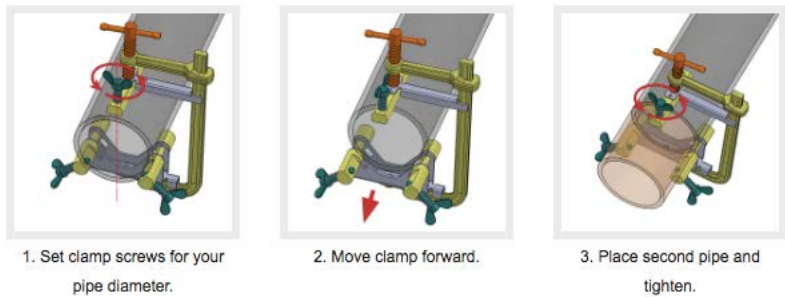
Part No.	Capacity	Weight	List Price
CPA60	2" ~ 6" (50 ~ 152 mm)	11 lbs. (5 kg)	\$405.00
CPA120	4.5" ~ 12" (114 ~ 305 mm)	17 lbs. (8 kg)	\$750.60



PIPE FIT UP CLAMP

A compact, light weight, portable clamp for the quick fit-up of round pipes and flanges for butt welding.

Easy-to-Use design for the rapid, repeated loading and unloading of workpieces.



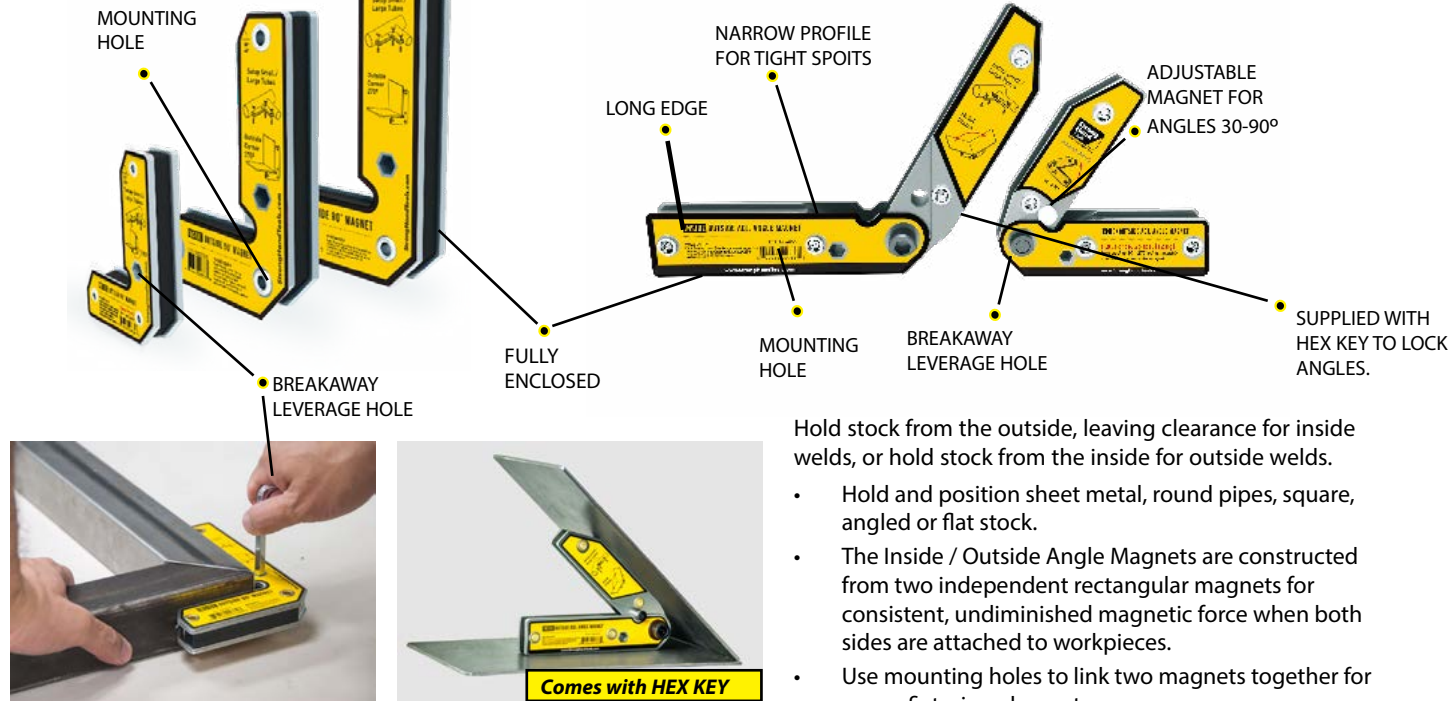
Part No.	Pipe Diameter Capacity	Clamp Rods Width	Overall Length	Weight	List \$
CPL45	50 ~ 100 mm	89 mm	241 mm	1.3 kg	\$160.92
CPL75	100 ~ 140 mm	89 mm	305 mm	2.1 kg	\$268.92

INSIDE / OUTSIDE ADJUSTABLE MAGNETS

MLD SERIES 90° MAGNETS

MLA SERIES ADJUSTABLE MAGNETS

StrongHandTools
Better Tools. Better Price.



Hold stock from the outside, leaving clearance for inside welds, or hold stock from the inside for outside welds.

- Hold and position sheet metal, round pipes, square, angled or flat stock.
- The Inside / Outside Angle Magnets are constructed from two independent rectangular magnets for consistent, undiminished magnetic force when both sides are attached to workpieces.
- Use mounting holes to link two magnets together for use as fixturing elements.
- Use hex hole on magnet for breakaway leverage.

Part No.	Angles	Height	Width	Thickness	Mag. Pull Force	Weight	List Price
MLDT350:	Set of 2 : Contains MLD300 + MLD500 (1 of each)					2.31 lbs. (1 kg)	\$35.70
1pc MLD300	90° (30°, 60°)	3" (75.5 mm)	2" (52 mm)	0.55" (14 mm)	20 lbs. (9 kg)		
1pc MLD500	90° (30°, 60°)	5" (125 mm)	3.35" (85 mm)	0.55" (14 mm)	33 lbs. (15 kg)		
MLD600	90° (30°, 60°)	6" (165 mm)	4.33" (110 mm)	0.79" (20 mm)	40 lbs. (18 kg)	1.61 lbs. (0.7 kg)	\$34.30
MLA450	30-270°	4.7" (120 mm)	4.7" (120 mm)	0.72" (18 mm)	26 lbs. (12 kg)	0.86 lb. (0.4 kg)	\$40.20
MLA600	30-270°	6" (156 mm)	6" (156 mm)	0.79" (20 mm)	33 lbs. (15 kg)	1.5 lbs. (0.7 kg)	\$52.40

MAGTAB MAGNETS

MAG-HOLD & MAG-REST V-PAD KITS

The better, faster way to hold tabs in place for tack welding!

Hold tabs, or any small metal pieces, parallel or perpendicular to the substructure.

The Adjustable Magnetic V-shape base adjusts for different shapes: round, flat, angle metal surfaces
MagTab JUMBO MNT15.



Handy accessories for holding of round, flat, and square parts in light duty substructure applications.

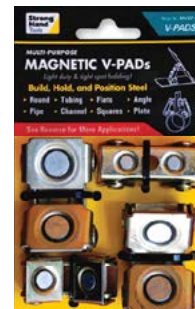
Each V-Pad contains 4 magnets.

MVDF44 - Mag Hold Kit

Magnets on both pad face and the bottom.

MVDF42 - Mag Rest Kit

Magnets on the bottom only.



Part No.	Dimension	Pull Force	List \$
MFT10	100 mm x 76 x 32	8 kg	\$29.27
MFT17	111 mm x 73 x 38	8 kg	\$51.84
MNT15	132 mm x 114 x 71	16 kg	\$48.60
MFT12	Symmetric Mag tabs	(L&R Facing)	\$72.36
MTH20	Combo Pack	Square / Round	\$57.02

Part No.	Pull Force	List \$
MVDF44	8 kg	\$52.00
MVDF42	4 kg	\$48.17

DUAL SWITCH MAGNET SQUARES & ADJUST-O MAGNET SQUARES

The fast & easy way to hold metal workpieces at 45° & 90°.

Turn the magnet Off when setting up, turn On when you're ready to work. Fast and safe set-up!

Ideal for round and square tubing, angle, and flat stock.

MSA53 multi angle: 30°, 45°, 60° & 90°



For professional jobs that demand strong hold down forces. Hold flat and round metal work pieces. Two On/Off switches for independent operation.

Precision machined flat and V-surfaces are ideal for round and square tubing, angle, and flat stock.



Part No.	Pull Force	Dimension	List \$
MSA46-HD	40 kg	111 mm x 95 x 29	\$79.00
MSA48-HD	75 kg	152 mm x 130 x 35	\$148.00
MSA53-HD	65kg	152 mm x 130 x 35	\$153.00

Part No.	Pull Force	Dimension	List \$
MS2-80	55 kg	152 mm x 152 x 38	\$225.75
MS2-90	120 kg	197 mm x 197 x 48	\$409.00

ADJUST-O ANGLE MAGNET

Adjustable from 30° - 275° with two On/Off switches.

Precision machined flat surfaces and nickel/chrome body.

V-Groove surfaces securely hold round and square tubing, angle, and flat stock.



STANDARD MAGNET SQUARES

For professional jobs that demand strong hold down forces. Hold flat and round metal work pieces.

Precision machined flat and V-surfaces are ideal for round and square tubing, angle, and flat stock.



Part No.	Pull Force	Dimension	List \$
MAV120	50kg	197 mm x 197 x 95	\$457.62

Part No.	Angles	Pull Force	List \$
MS346C	30°, 60° 45°, 90°	40 kg	\$32.40

MINI MAGNET SQUARES

Holding at multiple angles while soldering, brazing, and welding at 30°, 45°, 60°, and 90°.

The compact size makes it easy to pack, store, and carry.

Dimensions 59 x 51 x 16mm



XYZ MINI MAGNETS

Quickly and easily set-up 2 or 3-Axis workpieces.

Re-position, while holding. Tap or slide workpieces to fix positioning, without removing the magnet.

Magnetic face plate features two rare earth disc magnets for 3rd axis holding.



Part No.	Description	Pull Force	List \$
MS346AT	Twin Pack	10 kg	\$21.71
MS346AK	6-Pack	10 kg	\$66.42

Part No.	Description	Pull Force	List \$
MST348	Twin Pack	10 kg	\$36.72

CORNER MAGNET

Create 90° corners by holding from the outside, providing you with an unobstructed area for inside tack welds. One side corner "relief" provides clearance for tall lips. Use the outer edges of the Corner Magnet for setting up materials at 60°.



Dimensions 83 x 95 x 16mm

Part No.	Description	Pull Force	List \$
MST327	Twin Pack 90° & 60°	14kg	\$53.16

STRONG GRIP PLIERS

The Easiest to GRIP, ADJUST & RELEASE.



C-JAW PLIERS WITH HAMMER HEAD

Unique design provides a convenient hammer when you need it, where you need it!

Part No.	Opening	OAL	Weight	List Price
PCH10	40 mm	300 mm	0.6 kg	\$31.32

ADJUSTABLE, LARGE CAPACITY BIG-MOUTH PLIERS 4

Adjustment Slots

- Adjust instantly to hold large or small workpieces.
- Unique crank handle for FAST opening, closing, adjusting.
- Serrated jaw surfaces for extra gripping power.
- V-Notch on top jaw for holding small parts.
- Long jaw [2-1/4" / 64 mm] for extra capacity and greater versatility in workholding. Keep this versatile tool on hand for fast clamping in a variety of jobs!



COPPER Grounding Big Mouth pliers with copper jaw and ribbon

BIG MOUTH PLIERS

Part No.	Max. Opening	Throat Depth	OAL	Weight	List Price
PAJ100	80 mm	64 mm	250 mm	0.7 kg	\$53.00
PAJ207 Copper Grounding	80 mm	64 mm	250 mm	1 kg	\$85.32

C-JAW PLIERS

Machined curved jaws with serrated teeth tightly grip round stock as well as a variety of shapes.

Part No.	Opening	OAL	Weight	List Price
PCJ50	1"(26 mm)	7"(180 mm)	0.4 lb.(0.2 kg)	\$23.70
PCJ70	1.6"(40 mm)	9.6"(245 mm)	0.8 lb.(0.4 kg)	\$24.80
PCJ100	1.6"(41 mm)	12"(300 mm)	1.2 lbs.(0.6 kg)	\$28.00
PCJ120*	2.2"(55 mm)	14"(360 mm)	2.0 lbs.(0.9 kg)	\$42.00

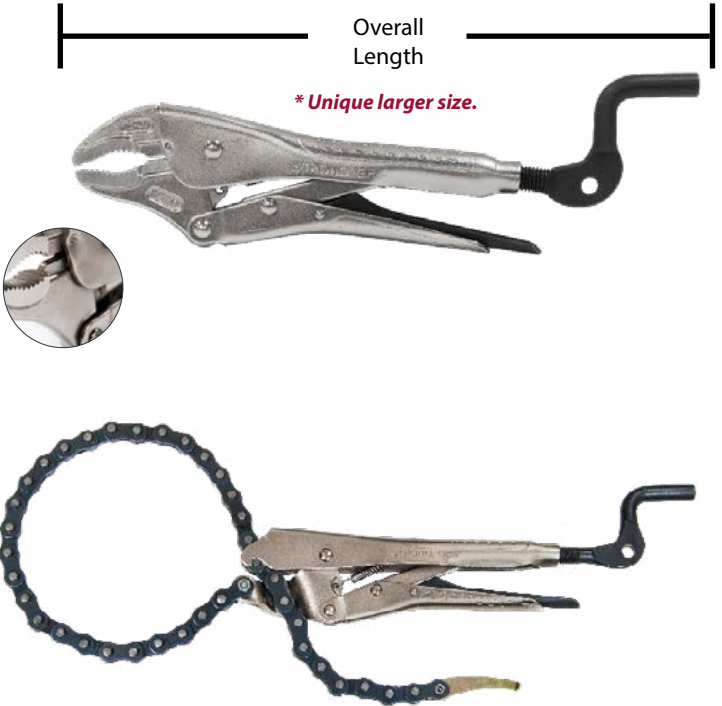
LOCKING CHAIN PLIERS

Clamp odd shaped multiple items. Adjust tightness with crank handle. Replaceable chain available in 24", 36", and 48" lengths.

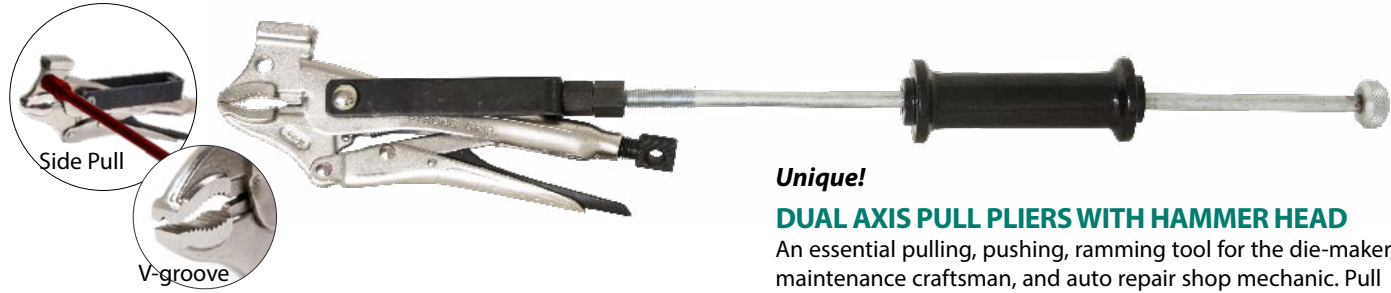
Part No.	Chain Length	Holds Pipes	Weight	List Price
PFC1024	600 mm	165 mm	0.9 kg	\$84.00

REPLACEMENT CHAIN

Part No.	Chain Length	List Price
PXC36	910mm	\$31.00
PXC48	112cm	\$42.00



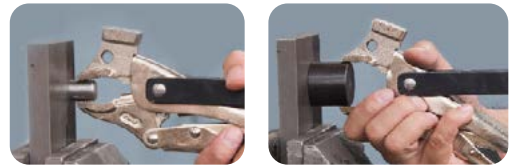
STRONG GRIP PLIERS



Unique!

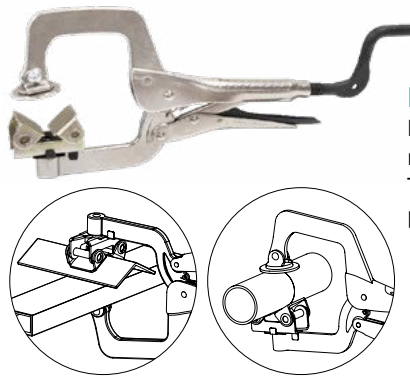
DUAL AXIS PULL PLIERS WITH HAMMER HEAD

An essential pulling, pushing, ramming tool for the die-maker, maintenance craftsman, and auto repair shop mechanic. Pull Rod mounts in the swing handle, or in the threaded hole for 2-axis pulling or pushing.



SELF ALIGNING PULL BAR

Part No.	Opening	OAL	Weight	List Price
PPD100	1.6" (40 mm)	28" (715 mm)	1.7 lbs. (3.8 kg)	\$96.00



Unique!

ECONOMY PIPE PLIERS

Large Capacity (3"/75 mm)! Holds round, square, flat or angled. The large (1.5" / 38 mm dia.) swivel pad clamps at multiple angles.

Part No.	Opening Round / Square	OAL	Weight	List Price
PVS100	up to 3" (75 mm)	14" (360 mm)	2.2 lbs. (1.0 kg)	\$52.90



U-PRONG PLIERS

Wide U-Shaped jaw for workpiece visibility, weld access, secure holding.

Part No.	Opening	OAL	Weight	List Price
PUP90	2" (50 mm)	11" (275 mm)	1.3 lbs. (0.6 kg)	\$4200
PUP100	3" (80 mm)	13.4" (340 mm)	1.9 lbs. (0.9 kg)	\$51.80



SHEET METAL PLIERS

Wide, robust contact plates for getting a firm hold on sheet metal.

Part No.	Parallel Opening	OAL	Weight	List Price
PDB80	0.4" (10 mm)	10" (250 mm)	1.2 lbs. (0.5 kg)	\$29.00
PDB90	0.6" (15 mm)	12.6" (320 mm)	1.7 lbs. (0.8 kg)	\$38.00



LONG NOSE PLIERS

Long, slim nose for access in tight, narrow, hard to reach areas.

Part No.	Parallel Opening	OAL	Weight	List Price
PLN50	0.2" (5 mm)	8" (205 mm)	0.4 lb. (0.2 kg)	\$20.50
PLN90	0.2" (6 mm)	10.6" (270 mm)	0.9 lb. (0.4 kg)	\$27.00

LOCKING CLAMPS

Made of heat treated steel and nickel/chrome plated for strength and durability. Updated features help you work quickly, safely and efficiently.

Round Tip



PR115

Swivel Tip



PR115S

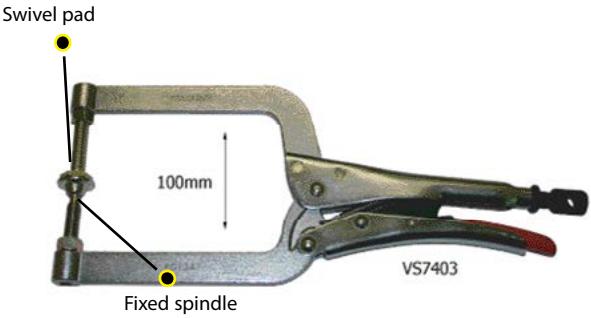


PR18S

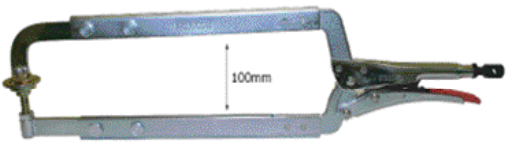
Part No.	OAL	Throat Depth	Opening	List \$
Round Tips				
PR6	165 mm	46 mm	56 mm	\$27.00
PR115	280 mm	83 mm	102 mm	\$38.70
PR18	450 mm	254 mm	114 mm	\$72.90
Swivel Tips				
PR6S	165 mm	46 mm	56 mm	\$31.00
PR115S	280 mm	83 mm	102 mm	\$41.80
PR18S	450 mm	254 mm	114 mm	\$76.50

MULTI-PURPOSE PLIERS

One swivel pad spindle and a fixed head spindle for flexible clamping. Threaded jaw holes allow addition of accessories.



Part No.	OAL	Throat Depth	Opening	Thread	List \$
PG622	150mm	50mm	64mm	M8	\$24.08
PG114M	280mm	89mm	102mm	M10	\$43.20
PG134	330mm	140mm	102mm	M10	\$42.50



Part No.	OAL	Throat Depth	List \$
PGA20SM	585-740mm	350mm, 405, 460, 510	\$83.00

PIPE PLIERS

The convenient way to hold round or square tubes for butt welding.



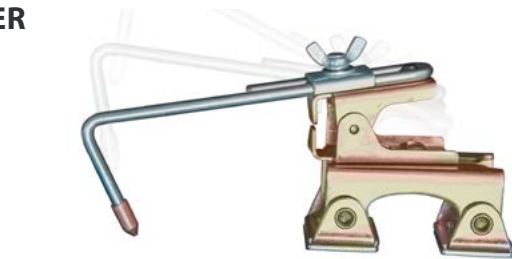
Part No.	Description	OAL	Throat Depth	Min/Max Dia	Thread	List \$
PG622V	6" pliers, fixed V pads (2 x XDV)	152 mm	50 mm	25 mm - 50	M8	\$29.70
PG634V	8-12" pliers fixed pads (2 x XDV)	215 mm	76 mm	50 mm - 80	M8	\$45.70
PG635V	Adjustable Top V-Pad Spindle large V pads (XFV & XFV2)	215 mm	76 mm	40 mm - 64	M8	\$48.60
PG114VM	11" pliers fixed larged V pads	280 mm	89 mm	40 mm - 64	M10	\$47.50

THE GRASSHOPPER - WELDING FINGER CLAMP

- Use the "Welding Finger" to steady parts for tack welding! Safe and convenient!
- Steady small parts, such as: bolts, nuts, and thin plates for tack welding at odd angles with full welding clearance.
- No other device can do what the Grasshopper does!

MAGNETIC GRASSHOPPER

- One-piece, fully adjustable clamp is easy to place and remove.
- Hold steel stock in the vertical position with self-adjusting holding pressure
- Use in tight, hard-to reach spaces with no obstruction for tack welding.
- Place the adjustable magnetic base on round, square, flat or angled surfaces.



Part No.	Includes	Max OAL	Width x Height	Weight	List Price
AGH130P	Spring Clip, Grounding Ribbon & 3 Brass Tips	300mm	114-102mm	.69kg	\$59.40
AGH200	Small Magnetic V-Pad, Spring Clip, Brass Tip	190mm	64-89mm	.23kg	\$47.41
AGH230	Large Magnetic V-Pad, Spring Clip, Brass Tip	200mm	102-102mm	.45kg	\$64.04

CORNER PLIERS - ANGLE CLAMPING TOOLS

Fast, Precise and Affordable Clamping Tools for corners and T-Joints



PL Series

Ideal for quick hold & release on wood, metal & synthetic materials.

A helping hand to stock firmly at right angles while creating or repairing permanent joints



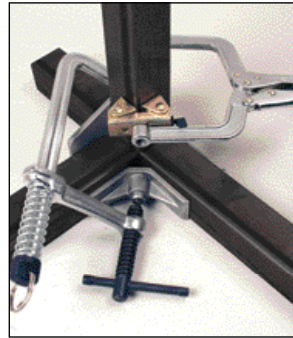
PT Series

Retractable plate for edge alignment V-Grooves for holding round pieces.

Ideal for holding two pieces of different thicknesses that require individual adjustments.

Part	Throat	Max	
No.	Depth	Capacity	List \$
PL634	76mm	32mm	\$61.00

Part	Throat	Max	
No.	Depth	Capacity	List \$
PT634	76mm	76mm	\$98.00



90° Corner Clamp

The adjustable top bracket is affixed to a Spring-Loaded arm for quick set ups.

Large opening accepts 50mm tubes.

Can be used with PG634V Pipe Pliers for holding 3-axis workpiece



PA Series

Adjustable from 30° - 275° using the locking handle.

Join round & flat workpieces, or materials with different thicknesses.

Part	Throat	Max	
No.	Depth	Capacity	List \$
UDL365	76mm	50mm	\$72.30

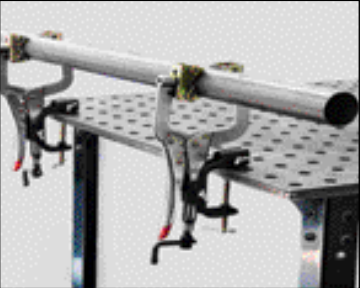
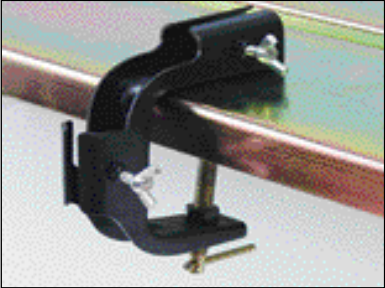
Part	Throat	Max	
No.	Depth	Capacity	List \$
PA622	51mm	32mm	\$90.94
PA634	76mm	76mm	\$105.08

BENCH-MOUNT PLIERS HOLDER

Convenient storage, or Hands free use

Holds in Vertical & Horizontal positions

Wing Nuts on both Vertical and Horizontal positions lock pliers in place



Part No	List \$
PB11	\$28.08

PANEL CLAMPS

Magnets hold clamp parts and panels together.

Magnets in the keeper plate and the clamp body hold your panels in position for a speedier, & more efficient setup.

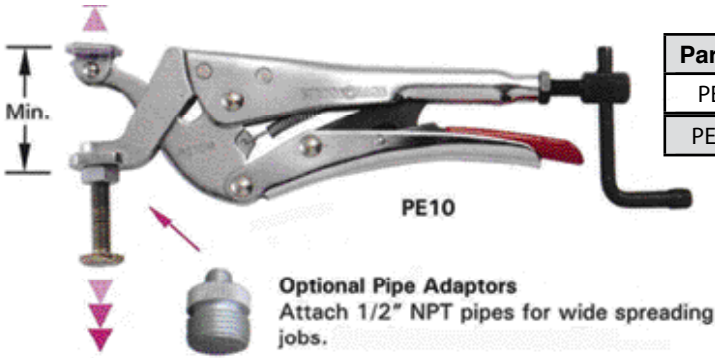
Turn the Spring-loaded screw to adjust the opening to accept panels of different thicknesses [max 5mm]

Part No	Description	List \$
MPC12	Twin Pack	\$35.21



EXPAND-O PLIERS

Unique, Reverse action clamping pliers, The jaws move in the opposite direction to push against two surfaces



Clamping

Part No.	OAL	Pressure	Min	Stroke	List \$
PE6M	165mm	230kg	25mm	19mm	\$51.90
PE10M	255mm	410kg	35mm	35mm	\$69.00

Pipe Adaptors.

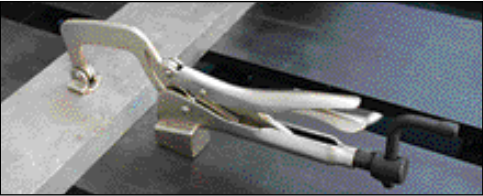
Part	For	
No.	Clamps	List \$
XDJM	Suits PE6M	\$ 10.60
XFJM	Suits PE10M	\$13.40

TABLE MOUNT LOCKING C-CLAMPS

Mounts directly to any work bench, drill press and fixtures ,Mounting base hole accepts standard M8 bolts and uses push down action to hold your workpiece securely.

Use the Crank-Handle for pressure adjustment, Rapid lock and release. Ideal for repititious clamping.

Part No	List \$
PT09	\$63.18



DRILL PRESS CLAMP

Drill Press Clamps quickly lock and release, making them ideal for repetitious clamping. Secure the Drill Press Clamp to any surface, up to 25.4 mm thick.

M12 x 38 mm Stud and convenient, ergonomic zinc plated knob. Use the handy crank handle to: increase torque; pre-set the Pliers opening for repetitious clamping applications and loosen the Pliers before unlocking.

Part No	List \$
PTD09	\$63.72



SNAKE MAGNET

The Third Hand—Holds, Bends, Twists
Comes complete with 2 magnetic pads and 1 spring clamp
450mm Flex Cable links the magnet and spring clamp
Can be used to hold small parts, tools, & lights

Part Number	Pull Force	List \$
MFC312	8kg	\$51.84
MFC318	10kg	\$49.90



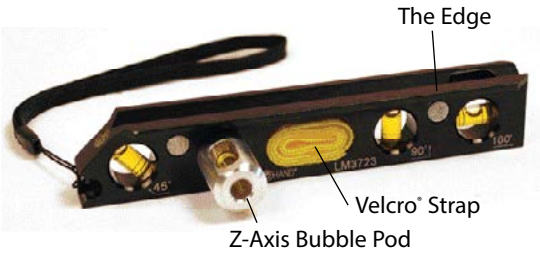
Adjustable Magnetic V-Pad
Adjusts for different shapes: round, flat, angle metal surfaces



TORPEDO MAG-LEVELS

The use-anywhere, view anywhere compact magnetic level
4 strong magnets allow hands-free use on metal surfaces
V-Groove on one side for pipe and conduit work
Robust, solid anodized aluminium body
Dimensions 178mm x 32mm x 25mm

Part No.	Angles	List \$
LM3723	0°, 45°, 90°	\$63.72



Easily mount onto metal surfaces.

Rotate the Bubble Pod for 2-axis leveling.

Attaches to wood post.

POWERBASE GROUNDING MAGNET

Power through your grounding applications
The Powerbase Grounding Magnet sets up quickly and easily. Start grounding instantly!
Powerful rare earth magnet delivers heavy duty holding power
The "V" machined surface grips round parts
The copper connector stud is located on top and allows for a full 360° cable rotation.
Rugged, compact steel housing for a fast and safe ground, even in tight spots!

Part		Dimension	Magnetic	
No.	Amperage	mm	Force	List \$
GM203	300A @ 60% Duty Cycle	50x50x64	34kg	\$132.50
GM205	500A @ 60% Duty Cycle	50x70x64	50kg	\$174.00



GROUND HOG CLAMPS & PLIERS

High clamping pressure improves arc stability and reduces power consumption
Prevents current restriction and allows a complete transfer of the electrical current
Controls the electrical current by isolating the contact surface and the cable connection
Get a smooth, continuous arc with no fade, and no heat transfer while improving cable life, and reducing power consumption.
The Ground Hog
The groove design on the copperhead seals out weld spatter and reduces particle buildup.
Side screw provides a secure cable connection
Ground Hog body rotates for cable positioning

Part	Max	Throat	AMPS	
No.	Opening	Depth	Rating	List \$
CLAMPS				
GF1751	135mm	120mm	550	\$103.68
PLIERS				
GP1530	55mm	70mm	300	\$71.28
GP950 (GP2850)	70mm	80mm	450	\$90.72
GC5010	Ground Hog Spare Contact			\$64.58



GROUNDING CLAMPS

Clamping & Grounding at the same time
Consistently rated at 300 AMPS
Solid, insulated copper U-channel rotates for easy access and can attach to round / odd shaped parts

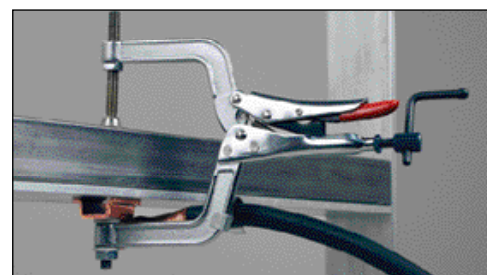
Part No	Amperage	Clamping Pressure	List \$
GB428	300A	100kg	\$55.08



STRONG GRIP GROUND CLAMP

The most efficient Ground Clamp on the market
Exclusive design copper contact grips round or flat section
Insulation prevents shorting to plier frame
Threaded stud at the side for attaching ground cable fitted with 8mm field lug
Speed crank & adjustable clamp spindle
Suitable for welding applications up to 350 amps

Part No	List \$
GP628	\$56.16



MAGTAB MAGNETS

The better, faster way to hold tabs in place for tack welding!
Hold tabs, or any small metal pieces, parallel or perpendicular to the substructure.

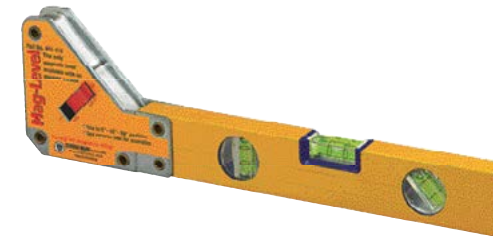
The Adjustable Magnetic V-shape base adjusts for different shapes: round, flat, angle metal surfaces
MagTab JUMBO MNT15.



Part No.	Dimension	Pull Force	List \$
MFT10	100 mm x 76 x 32	8 kg	\$29.27
MFT17	111 mm x 73 x 38	8 kg	\$51.84
MNT15	132 mm x 114 x 71	16 kg	\$48.60
MFT12	Symmetric Mag tabs	(L&R Facing)	\$72.36
MTH20	Combo Pack	Square / Round	\$57.02

MAG LEVEL

The only magnetic level with the On/Off switch.
Holds securely to round and flat surfaces.
Three vials for 0°, 45°, 90° reading.



Part No.	Angles	Dimension	Pull Force	List \$
MSL-316	45°, 90°	102 mm x 406 x 25	30 kg	\$108.00

HANDI-HAMMER

The unique dead blow tapper.
One steel end and one soft face.
Eliminates bounce back and increases impact.



Part No.	Dimension	Weight	List \$
CH-10	40 mm x 127	10 oz	\$35.80
CH-14	45 mm x 133	14 oz	\$45.60

MAG-HOLD EXTENDABLE ARM

Position and hold steel stock in welding and fabrication.
Telescoping mounting bar adjusts from 178 to 254mm in length.
Loosen the center joint in the mounting bar to "fold up" the MagHold™ for different workholding configurations.
Adjustable magnetic v-pads at each end hold stock of different shapes: round, flat, angled.

Part No.	Pull Force	Weight	List \$
MHF608	8 kg	0.6 kg	\$55.00



NOMAD ECONOMY WELDING TABLE

Fully Adjustable. Easily Movable. Very Affordable.
Three 28mm slots in the tabletop allow for insertion of clamps to reach any point on the table.
Tabletop tilts to three positions: Horizontal, 30°, and folded.
Two retractable, perpendicular steel guide rails can be used as guides, stops, or clamping edges.
Height can be adjusted from 66cm to 81cm.
Tabletop size 760mm x 510mm
Kit includes : 2 x MagSpring Clamps UB45, 1 x Multi-Angle Magnet MS346C, 1 x Mini-Magnet MS346A, and 2 x Adjustable Magnetic V-Pads XDV4



Part No.	Description	Load Capacity	Weight	List \$
TS3020	Table	160 kg	20 kg	\$345.60
TSK104M	7 piece kit		22kg	\$145.80
TSL30	Connector Plate	160 kg	7.4 kg	\$125.28

READY REST

You don't work in one fixed position, so neither should your torch rest.
The height and angle adjustable ReadyRests attach securely to any steel surface for safe and convenient holding of your torch and cable for full access while you work. The unique adjustable cable hanger provides cable control for safety, and ease of handling. Store your torch on the ReadyRest to prevent damage and create a clean, organized work area.
"Ready When You Are"

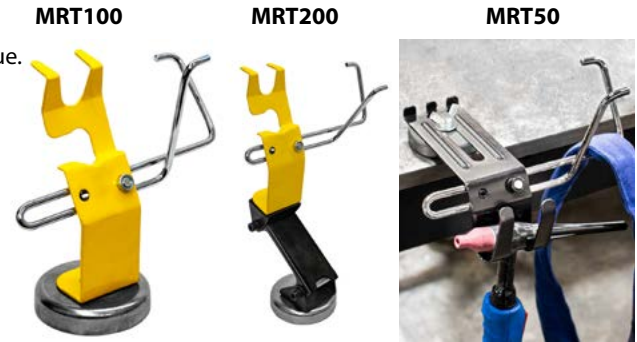
MIG GUN RESTS
MRM200 is Height & Angle Adjustable and features an angled anti-spatter Gel Pot

Part No.	Description	Height	Weight	List Price
MRM100	MIG Torch Rest with Cable Hanger & Accessory Plate	150 mm	0.95kg	\$53.46
MRM200	MIG Torch Rest with Cable Hanger & Accessory Plate, Adjustable Height	180 - 310mm	1.6kg	\$72.36



TIG GUN RESTS
DEEP BEND for extra-secure torch holding.
Rounded Edges prevent scratching.
Adjustable Cable Hanger holds cable "slack" for safety and reduced wrist fatigue.
MRT200 is Height Adjustable
MRT50 is the unique table edge mount model.

Part No.	Description	Height	Weight	List Price
MRT100	TIG Torch Rest with Cable Hanger	190 mm	0.95kg	\$42.12
MRT200	TIG Torch Rest with Cable Hanger & Adjustable Height	180 - 310mm	1.3kg	\$72.36
MRT50	Table Edge Mount TIG Torch Rest with Cable Hanger	140mm	0.50kg	\$44.28



UNIVERSAL REST
The Universal Rests hold your MIG or TIG Torch, or Electrode Holder. The Stainless Steel housing is angle-adjustable, with an adjustable keeper plate inside for secure, customizable holding.

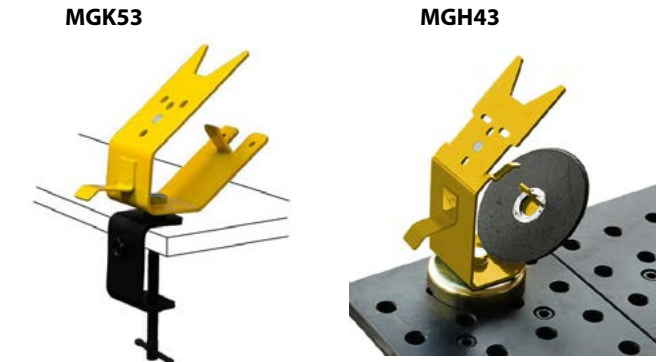
Part No.	Description	Height	Weight	List Price
MRD80	Universal Rest with Cable Hanger	151 mm	1.1kg	\$53.46
MRD90	Adjustable Height Universal Rest with Cable Hanger & Accessory Plate	178 - 305mm	1.8kg	\$78.84



POWER GRINDER RESTS, C-CLAMP BASE MODEL W/ VERTICAL MOUNTING PLATE

Store your Grinder and all accessories on one convenient, compact, portable rest for easy access. No more searching for wrench or spare discs. Holds most 5" Grinders. Also holds keys & spare discs.

Part No.	Description	Weight	List Price
MGK53	Grinder rest C-clamp	1 kg	\$51.84
MGH45	Grinder rest magnetic base	1.1kg	\$48.70



ARM & WRIST REST

ARA18 -Fully articulated Arm Rest.
Fully adjustable Arm Rest with fully articulated arm, supports your extended arm while working. Steady your arm or hand, for greater weld control and reduced fatigue. The 2-section Articulated Arm is height adjustable [slide up or down the support column] and swivels quickly and easily for work in precise locations.
The comfortable, generously sized arm cup turns in a 360° arc for complete freedom in positioning, and instant re-positioning. Place the sturdy, anti-tipping, magnetic base plate on any steel surface and level by adjusting the two leveling bolts.

ARW16 - Fully Adjustable Wrist Rest
The Rest Bar is height adjustable [slide up or down the support column].Place the sturdy, anti-tipping, magnetic base plate on any steel surface and level by adjusting the two leveling bolts. For space-saving storage, remove the Rest Bar from the adjustment column for vertical docking. An important addition to any welding setup. Steady your wrist for accurate welding and greater work quality with less fatigue.

Part No	Description	Arm Height Range	Arm Reach	Weight	List Price
ARA18	Articulated Arm Rest	150 - 380mm	0 - 320mm	2.2kg	\$151.00
Part No	Description	Rest Bar Height Range	Rest Bar Length	Weight	List Price
ARW16	Adjustable Wrist Rest	0 - 470mm	280mm	2.6kg	\$118.60



A-FRAME HD MAGNET

New for sheet metal and large stock holding
Hold large workpieces in the upright position.
Each magnet has an independent ON / OFF switch
Machined flat and V-faces hold round, square, flat, and angled stock.
330 mm x 330 mm x 32mm
Maximum Pull Force 120 Kg

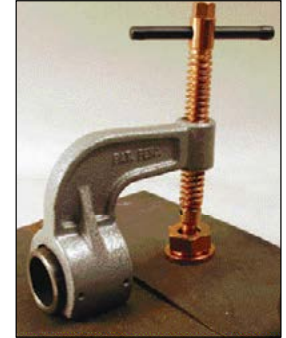
Part No	List \$
MS2-300	\$862.92



HALF CLAMPS

The Efficient, Safe Way to Align Materials
The DOG & WEDGE methods of material alignment are messy, time consuming and unsafe. Align materials in the fabrication of water tanks, bulkheads, deck sections, flat plates, etc Ideal for fabricators, repairmen, ship and barge builders

Part No	List \$
VHC15	\$91.80



SIDE CLAMPS

Build push-action clamp to custom heights.
Fit standard 38mm pipe or cut any length to the clamp body and base
Base can be bolt-mounted to the table

Part No	List \$
VSC15	\$84.00



HOLD DOWN CLAMP

NEW
The 1/2" copper plated ACME spindle resists weld spatter, and the swivel tip makes quick contact with your workpiece.
Hold pipes by adding our Clip-On V-Pad (XDA2).



*For further specifications please visit our website

GAS CYLINDER RANGE

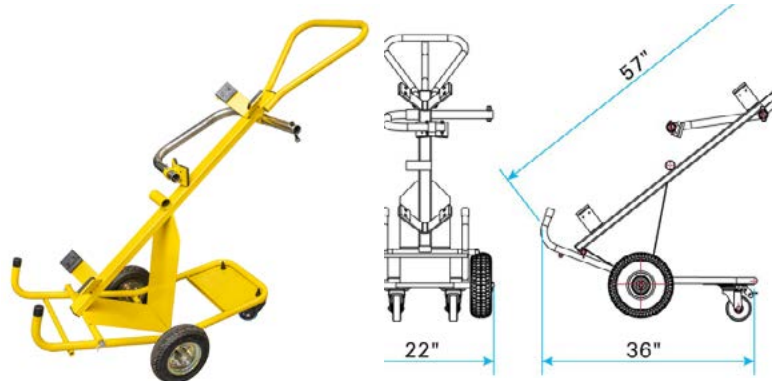


NEW GAS CYLINDER CART

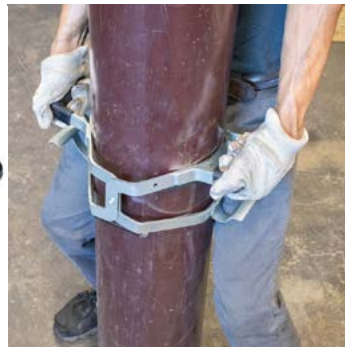
This new CYLINDER CART allows you to safely lift, move, place and store heavy cylinders. The sliding Stainless Steel Keeper Bar holds the cylinder securely in place without the use of chains or straps.

Rugged round steel tube welded construction for strength and durability, with powder coated finish.

Wheels: 8" pneumatic wheels + 3" locking wheels for mobility and storage.



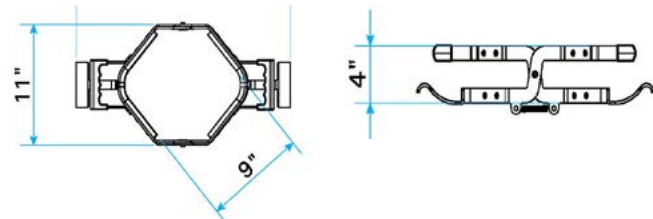
Part No.	Load Capacity	Cylinder Size	Unit Weight	LIST \$
GCC200	180kg / 400lb	215-230 (mm)	22kg / 48lb	\$945.00



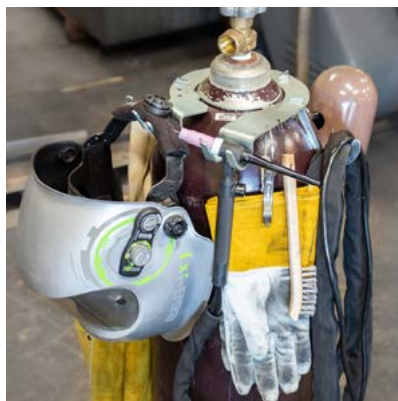
NEW GAS GRABBER

- Two handles for safe, two-person team lifting.
- 8-point cylinder contact and friction pads provide a positive, safe hold.
- Scissor-action handles automatically engage for secure lifting.

TO SUIT CYLINDERS 215-230mm or 8.5-9" diameter



Part No.	Product Dimensions	Net Weight	LIST \$
GCL230	20" x 11" x 4"	3.17 kg	\$395.00



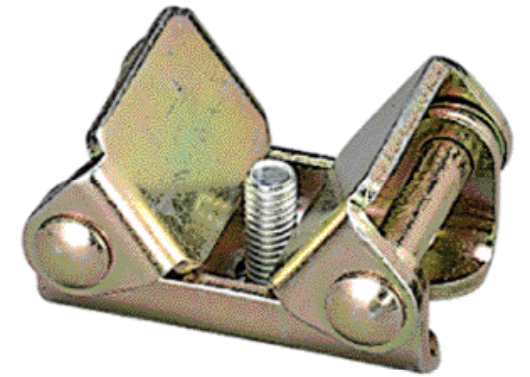
NEW GAS HOOK

Part No.	Product Dimensions	Net Weight	LIST \$
GCH140	9' x 7" x 4"	.70 kg	\$79.00

ACCESSORIES

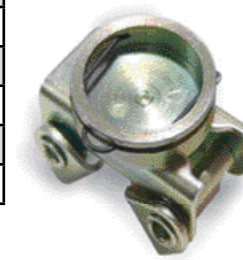
Standard V-Pads. Attach to pliers or clamps to hold round & angled workpieces

Part No	For Clamps	For Pliers	List \$
XDV	UD	PG622	\$7.80
		PG634	
XFV	UE, UF, UG	PG114, PG134	\$8.69
		PG204, PGA20	
XMV	UM, UP	-	\$8.75
XDVS [SS]	UD	PG622	\$14.60
		PG634	
XFVS [SS]	UE, UF, UG	PG114, PG134	\$18.36
		PG204, PGA20	
XMVS [SS]	UM, UP	-	\$29.48



Clip On V-Pads

Part No	For Clamps	List \$
XDA2	UD	\$21.40
XFA2	UE, UF, UG	\$19.85
XMA2	UM, UP	\$31.32
XFA2S [SS]	UE, UF, UG	\$32.00
XMA2S [SS]	UM, UP	\$57.13



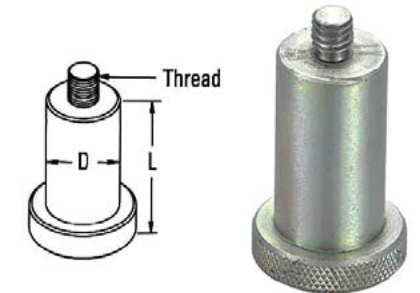
Screw-On V-Pads

Part No	For Clamps	List \$
XMA	UM, UP	\$30.78
XMAS [SS]	UM, UP	\$56.70



Extender Blocks. Attach to U-Clamps for Step over & Spreading applications

Part No	For Clamps	Size Thread D.L	List \$
XFBM	UE, UF, UG	M10. 30mm. 51mm	\$13.60
XMB2M	UM, UP	M10. 30mm. 51mm	\$14.15



Sidekicks. Mount to U-Clamps for 2 axis horizontal clamping

Part No	For Clamps	Length & Stroke	List \$
XFSM	UF	111mm & 35mm	\$40.18
XGSM	UG	111mm & 35mm	\$44.71
XMSM	UM	111mm & 35mm	\$45.68



Bench Rests. Supports U-Clamps in standing position

Part No	For Clamps	List \$
XMU2	UM	\$11.34



Heavy Duty replaceable pads

Part No	Description	List \$
XMJ	Swivel pad assembly HD	\$43.52



WELDERS UNIVERSAL VISE DUAL VISE MODEL

Clamp stock of different thicknesses at multiple angles. Patented Quick Acting Button for FAST setup! Magnetic Blocks (included) to support long stock.

- Jaw Opening: 4" / 100 mm
- Jaw Height: 1-3/8" / 35 mm
- Clamp round and square tubing, angled and flat stock at 5° to 180°.
- Copper plated screws with Quick Acting Buttons.
- Individual Angle Clamps easily swivel on the fixture base



Part No.	Description	List \$
WAV200	Stronghand Dual/Duo Vice	\$670.00
WAS100	Stronghand Single Vice	\$235.00

MORE STRONGHAND PRODUCTS TO COME!

NEW

WAV 200 DUAL VICE



NEW

WAS 100 SINGLE VICE



NOGA GRANITE BASE STAND

NOGA Granite Base Stand and articulated holders with fine adjustment on top.

NOGA Granite Base Stands are made with high quality and hardened granite. Due to its stability and ease of use, NOGA's articulated holders have become the most sought-after in the industry.

- Solid 3D articulated holder with central locking system with NOGA designed spring loaded bearing mechanism.
- Fine adjustment on top with universal swivel clamp.
- Holds 6mm, 8mm, 3/8" and dovetail.
- Fast and easy to set up gauges into required position.
- Black finished arms.

NEW

Part No.	Description	List \$
MT2000	Granite Base Stand & DG Articulated Holder	\$547.00
MT2100	Granite Base Stand & MG Articulated Holder	\$647.00



NOGA V BLOCKS

NOGA Heavy Duty V Block Magnet Sets, including a choice of Noga holders, can help with the numerous challenges of the skilled operator of machine tools.

Utilized for general shop applications: securing & layout of items with various shapes, holding stock securely in place during light-duty operations such as boring, tapping, milling, drilling and grinding.

Noga is offering a selection of V Block Magnet sizes with either a NF or PH Holder.

Designed to hold dial and test indicators as well as other components.



Part No.	Description	List \$
VB1300	V Block Magnet (VB1002) 60x73x100 with Noga NF Holders (NF60103)	\$452.00
VB1100	V Block Magnet (VB1002) 60x73x100 with Noga PH Holders (PH3101)	\$368.00
VB1400	V Block Magnet (VB1004) 70x95x120 with Noga NF Holders (NF60103)	\$567.00
VB1200	V Block Magnet (VB1004) 70x95x120 with Noga PH Holders (PH3101)	\$483.00
VB1002	V Block Magnet Only (60x73x100)	\$301.00
VB1004	V Block Magnet Only (70x95x120)	\$416.00

NF1021 List \$235.40

Unique 5 axis, 3 dimensional Holder
Has unique patented 360 degree fine adjustment at the base.
Central locking mechanism with NOGA designed spring loaded bearing.
On/Off magnetic base 17 Kg/f.
Holds test and dial indicator on 8mm, adaptor to 6mm and dove tail.



NF1022 List \$165.85

Test Indicator Holder arm for centering of workpieces
Has universal fine adjustment. Will hold 6mm, 8mm, 3/8" dovetail



NF1030 List \$225.00

Similar to NF1021 but with powerful 28 Kg/f permanent magnetic base.
Can be mounted on flat as well as on curved surfaces.



NF1015 List \$138.02

Test indicator holder arm with 8mm diameter long stem.
Most useful for centering holes on milling machines.



HOLDING SYSTEM

ECONOMICAL HOLDER

Features universal holder with unique 5 positions clamp. Will hold 6mm, 8mm, 3/8" stems. Has dovetail & screw for holding back lug. No fine adjustment
Part No. MB1000 List \$52.43



Post
12 x 180mm
Arm
10 x 165mm

POST HOLDER FAB

PH Holder with unique Fine Adjustment at the base. Universal swivel clamp for all dial and test indicators. Strong arm lock via 3 points clamp.
Part No. PH2040 List \$95.85



Post
14 x 203mm
Arm
12 x 185mm

POST HOLDER FAT

PH Holder with Fine Adjustment on top with Universal swivel clamp for all dial and test indicators. Strong arm lock via 3 points clamp.
Part No. PH6800 List \$197.95



Post
18 x 350mm
Arm
16 x 225mm

TOP ATTACHMENT FOR ARTICULATED HOLDERS

Fine adjustment, Holds 6mm, 8mm, 3/8", dovetail

Part No. FA1500 List \$73.83



TOP ATTACHMENT

No fine adjustment

Part No. FA1100 List \$38.20



HOLDING SYSTEM DIAL

Dial Gauge **DG1000 List \$95.23**
Dial diameter 58mm, stem diameter 8mm
Measuring range 0-10mm, graduations 0.01mm

Flat back



HOLDING SYSTEM MAGNETS

DG0040

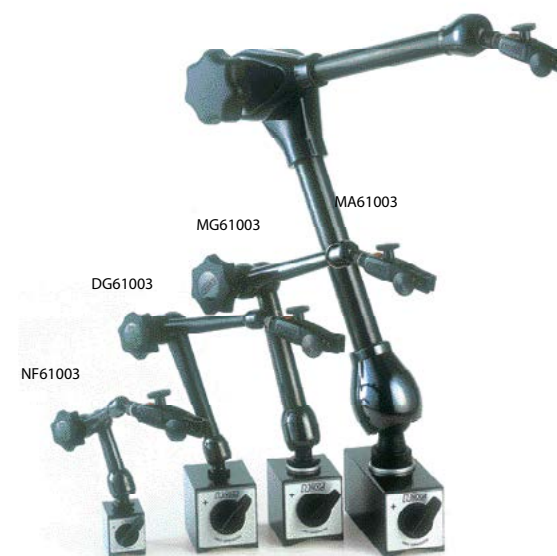


DG0036



Part No	Description	List \$
DG0036	On/Off magnet 800 N M8 thread. 50 x 60 x 55mm	\$53.49
DG0038	On/Off magnet 1000 N M8 thread. 50 x 75 x 55mm	\$97.00
DG0039	On/Off magnet 1300 N M10 thread. 50 x 120 x 55mm	\$140.00
NF0037	On/Off magnet 320 N M5 thread. 30 x 40 x 35mm	\$40.66
DG1003	On/Off magnet 1000 N Multi thread. M6, 8, 10, 12 & 10x1.25	\$146.59
DG0040	Vacuum Base 350 N M8 thread 92mm diameter	\$164.78

DIAL GAUGE HOLDERS



Arm only

Part No.	Bottom Arm	Top Arm	Magnet Force	List \$
DG60103	110mm	101mm	\$203.30	
MG60103	133mm	113mm	\$262.15	
MA60103	326mm	242mm	\$379.85	

ARTICULATED ARM HOLDERS

Due to its stability and ease of use, the NOGA articulated holder has become a popular workshop tool for holding gauges and indicators.

Fine adjustment on top with universal swivel clamp

Holds 6mm, 8mm, 3/8", dovetail

Central locking mechanism with NOGA designed spring loaded bearing

Five axis holder

Powerful On / Off magnetic base

Instant fixation in any position

Fast and easy to set up gauges into the required position

Black finished arms

Part No.	Bottom Arm	Top Arm	Magnet Force	Magnet Part No.	List \$
NF61003	56mm	51mm	320 N	NF0037	\$175.00
DG61003	110mm	101mm	800 N	DG0036	\$227.00
MG61003	133mm	113mm	800 N	DG0036	\$289.00
MG71003	163.5mm	113mm	800 N	DG0036	\$326.35
MA61003	326mm	242mm	1300 N	DG0039	\$486.85



DOUBLE FINE ADJUSTMENT HOLDER

BASE & TOP

New Double Fine Adjustment:

Top: universal swivel clamp.

Bottom: Unique single direction.

Part No.	Bottom Arm	Top Arm	Magnet Force	Holder Bottom Thread	List \$
DG6160	110mm	101mm	800 N	Ext M8	\$294.25
MG6161	133mm	113mm	800 N	Ext M8	\$343.47

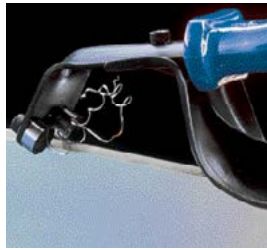


HOLDER WITH FINE ADJUSTMENT AT BASE

Unique single direction fine adjustment at base. Powerful on/off magnetic base. Unique central locking mechanism with Noga designed spring loaded bearing. Five axis holder. Easy to set up into required position. Black finished Arms.

Part No.	Bottom Arm	Top Arm	Magnet Force	Standard Clamp Dia	List \$
DG10503	110mm	101mm	800 N	8mm	\$268.14
MG10503	133mm	113mm	800 N	8mm	\$331.70

Double Burr DB1000 \$45.70
Double Burr, Hand Guard & 2 x N80 blades. Simultaneously removes burrs from both sides of sheet metal. Range 0-12mm. Use hardened blades, N80M42 on stainless steel.



Ceramic Double burr DB5000 \$128.40
Includes Hand guard & Ceramic blade



Replacement blade CR5100 \$64.20

Universal Handy Chuck Holder PV1000 \$87.00

Aluminium handle with non slip covering. A 3 jaw chuck helps with the quick and secure clamping of a wide variety of tools, blades and blade holders such as scrapers, countersinks, files etc. Hardness 58 HRC



Adjustable Mini Ceramic Scraper CR4100 \$58.85

Includes:
Ceramic Mini Scraper Handle - YT10004
Ceramic mini-scraper blade - CR4500



Ceramic mini scraper ideal for surface cleaning, trimming, deburring and parting line deflashing of almost all plastics. special blade design for safety.

Cera-Cut Replaceable ceramic blade CR2000 for plastics & soft materials \$63.13



Blade options - **CR2200** List \$52.43 **CR2500** List \$63.13

BLADE HOLDERS For use with UNI Handle & NogaGrip 3

S Holder EL02003 Use with NG-3 Handle. Holds all S blades \$22.00



N Holder EL01002 Use with NG-3 Handle. Holds all N blades, straight or 90o \$19.80



SN Holder SN1000 Double sided & extendable holds both heavy (S & E) & light (N & B) duty swivel blades. Used with UH1000 \$20.20



Rapid Burr RB1005 \$22.40



Rapid Burr RB1000 with S20 Blade packed in a card and blister. 12mm hexagonal aluminum handle.



EZ Burr Pro EB1001 \$11.90



EB5000 Handle with HEAVY DUTY S10 blade used for aluminium, steel and plastic.



NEW

EZ Burr Pro EB2000 \$11.20



EB5100 Handle with LIGHT DUTY N10 blade used for aluminium, steel and plastic.



NEW

EZ Burr Pro EB4000 \$28.00



EB50003 Handle with D50 MINI blade used scraping, trimming, & deburring most material.



NEW

Teddy Burr TB1000 \$19.60



Holds all "N" blades, easy to replace. Comes with handy pocket clip.



NG Handles NOGA Grip handles
Ergonomic, Light-weight, Strong construction with Blade storage.

NG1000 (NG-1)
Holds all 'S' blades

NG2000 (NG-2)
Holds all 'N' blades

NG3000 (NG-3)
Holds all 7mm blade holders



NG Handles \$16.90

UNI-Handle UH1000

Holds:
SN1000 & T120 Scraper



UH1000 \$19.30

C Holder CH3000 Holds C12, C20 & C30 Countersinks. \$21.67



D Holder ELO5003 Holds D50 & D66 blades. \$21.60



K Holder ELO4003 Holds N70K, N80K & N90K \$21.60



Noga Burr 3 NG1003 NogaGrip Handle S10, S20, & S35 blades \$29.00

Noga Burr 5 NG1005 NogaGrip Handle S10, S20, S35, S101, S202 blades \$37.00



Super Burr NG3003 NG-3 Handle, S Holder S20, S30, & S100 blades \$40.50

replaces "E" set



Tele Burr NG3002 NG-3 Handle, N Holder N1, & N2 blades \$34.00

replaces "B" set



Countersink NG3100 NG-3 Handle, C-Holder C20 Countersink \$71.25



Scraper SC1000 UH1000 Handle, T120 Double ended triangular scraper \$46.00



Mini-Scraper NG3700 NG-3 Handle, D-Holder D50 triangular miniscraper \$41.00



Internal Scraper NG3710 NG-3 Handle, D-Holder D66 internal scraper \$38.00



KeyWay Burr NG3300 NG-3 Handle, K-Holder N80K blade \$41.73



Metal Reamer PD1000M Deburr both inside and outside edges of tube. Die cast body with 3 cutters. Reamer for aluminium, brass and copper tubing. Range 4 - 42mm \$21.00



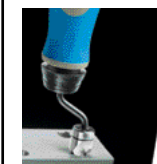
Liza Burr LB1000 UH1000 Handle, SN Holder N1, N2, & S10 blades \$38.00



Magic Burr 2 NG2002 NG-2 Handle, N1 & N2 blades \$27.00



"O" Ring Burr NG1100 NG-1 Handle, OR Blade \$48.15



Fixed RotoDrive NG1200 NG-1 Handle 10.4mm RotoDrive Countersink \$69.00



Thread Cleaner NG1600 NG-1 Handle, TC blade \$38.00



External RotoDrive NG1700 NG-1 Handle Range 4 - 18mm \$61.00

NG3500 Range 8 - 28mm \$92.00



Reversible Mini Countersink RC1000 Range 3 - 5.5mm \$63.00

Reversible Countersink RC2000 Range 5 - 9mm \$63.00

Reversible Countersink RC2200 Range 10 - 22mm \$94.00



Adjustable Scraper SC8000 12mm Anodized Handle T80 scraper blade \$55.60



RETAIL DISPLAY PRODUCT BONUS KITS AND RETAIL DISPLAYS



S Promo Set NG8150
List \$47.50
NG-1 NogaGrip Handle
10 x S10 blades

NG8250 Cobalt Set
List \$81.00
Contains: NG-1 Handle
20 x S100 Blades

S Tele Set NG8350
List \$57.50
NG-3 NogaGrip
Handle
5 x S10 & 5 x S20 blades

N Tele Set NG8300
List \$49.00
NG-3 NogaGrip Handle
5 x N1 & 5 x N2 blades

N Promo Set NG8000
List \$48.00
NG-2 NogaGrip Handle
10 x N1 blades



LB1900 Kit List \$54.00
UH1000 Handle &
SN1000 Holder with
5 x S10 & 5 x N1 blades



NG1003 List \$29.00
NOGA BURR heavy duty contains the
NG1000 Noga grip handles & 3
HD blades S10, S20, S35



RB1005 List \$22.40
RB1000 Rapid Burr with S10
& S20 Heavy duty blades .
Blister Packaging.



EO1015 List \$12.50
EDGE OFF Noga Burr.
Disposable tool with S10
Blade, Handy Pocket Clip in
Blister Packaging.



Noga RB1500
List \$440.00



20 RB1000 Rapid Burrs
Aluminium handle with
replaceable S10 blade



YT2000 List \$41.70
New and unique YT Handle
Hollow ground HSS D75 triangular
adjustable scraper

Double ended triangular adjustable
scraper

NEW



EB7000 List \$79.00
EZ Burr Pro Set
Comes with EB1000, EB2000,
EB3000 & EB4000



NG1503 List \$450.70
NG1505 List \$577.70
16 x NG1003 or NG1005
in a cardboard counter display



FT3000
List \$85.00
Noga Fine Micro Set

Fixed S150 blade
Fixed 3.2mm Countersink Blade
Fixed D50 Scraper Blade



RG1000
List \$155.00

Universal Deburring Set with
4 popular blades. S10 and N2
blades plus D50 scraper and
RD10.4 countersink.



EB8000 List \$395.00
EZ Burr Pro Counter Display
Comes with 36 x EB1001
Used for Aluminium, steel &
plastic.



SETS, KITS & MERCHANDISERS

UNIKIT STANDARD UK1000
\$191.00 Kit includes:
Scraper T120,UNI-Handle
SN Holder, C Holder + C20
N1, N2, S101, S30, S20, S10



NOGA BOX NX1000 \$470.00
Kit includes:
Keyway Burr, Double Burr
2 pcs Edge Off, D-Key,
UNI-Handle + SN Holder
C Holder + C20, C12
D Holder + D50,
D Holder + D66,
L Holder + L1, N1, N2, S10,
S101, S20, Scraper T120

NOGA SP3500 Kit \$335.00
Stainless steel deburring kit -
contains:

DB1000 equipped with
M42 hardened blades

NogaGrip Handle with S blade
holder plus S100 cobalt and
S20 carbide blades

Adjustable scraper with
D55 carbide blade



PLATINUM BOX NG9500
\$450.00
Kit includes :
Double Burr
NogaGrip 1 handle
NogaGrip 3 handle
N Holder, S Holder
Teddy Burr handle
C Holder + C20
D Holder + D50
D Holder + D66
K Holder + N80K
T Holder + T70
18mm external RotoDrive blade
10.4mm countersink RotoDrive
N1, N2, S10, S20,
S30, & S150 blades
Hex key 1.5mm

Bronze UniKit NG9200
\$186.00
Kit includes :
NogaGrip 3 handle
N Holder
S Holder
C Holder + C20
D Holder + D50
N1, N2, S10, S20,
S30, & S150 blades



NEW



SP7700
\$305.20
Kit includes 7 popular
deburring tools:
NG3003
NG3710
NG3300
NG3200
NG3700
NG3100
SC8000

COUNTERSINK POWER TOOL SET
CS7000: \$220.00
3 sizes Internal countersinks
12mm,20mm and 30mm.
- One size External
countersink Range ø8-28mm
- 2 Pcs. NOGA unique 1/4"
adaptors allow you to use all
standard power tools.

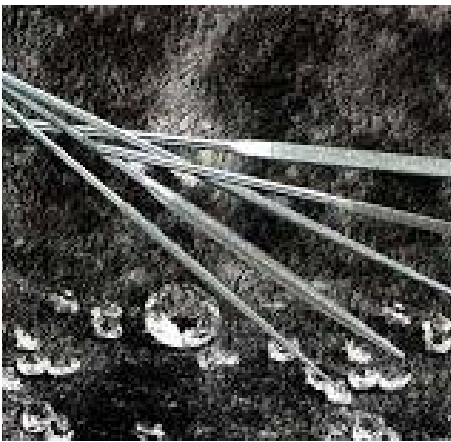
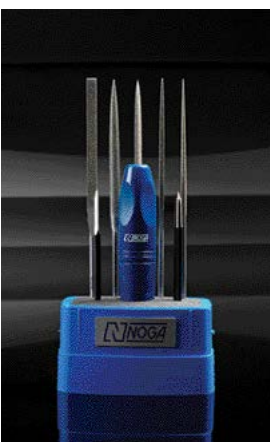





DIAMOND NEEDLE FILE SETS

The files are of Swiss made blanks electroplated with ultra high
concentration of precisely graded diamond particles.
5 Diamond Needle Files -
All 140mm total length, 70mm coated length, with 3mm shank
Equaling - 5.1 x 1.4mm
Triangular - 3.9mm
Square - 2.5mm
Half Round - 5.4 x 1.9mm
Round - 3.0mm




Also comes with NOGA T80 Double ended triangular scraper and
D75 mini scraper

Part No YT3000 \$198.27






Name Cat No.		Description	Blade holder & handles	Price /blade	Pack size
C12 (F12) BC1211		12mm 90 degree Countersink	all "C" series countersink blades are used with the CH3000 holder and NG3 Handle	\$44.60	1
C20 (F20) BC2011		20mm 90 degree Countersink		\$61.00	1
C30 (F30) BC3011		30mm 90 degree Countersink		\$93.00	1
RD 3.2 BC3201 #		Cranked Csk 3.2mm	all "RD" cranked countersinks are used with either the NG1 handle or SN1000 holder with UH1000 handle	\$23.50	1
RD 6.3 BC6301 #		Cranked Csk 6.3mm		\$47.00	1
RD 8.3 BC8301 #		Cranked Csk 8.3mm		\$49.00	1
RD 10.4 BC1041		Cranked Csk 10.4mm		\$53.50	1
RD 16.5 BC1651		Cranked Csk 16.5mm		\$56.70	1
RDE 18 EX2001		Cranked external Csk 4 - 18mm		\$41.20	1


SCRAPER BLADES

D50 BD5001		3.2x50mm triangular scraper.	D75, D77 & T80 use adjustable scraper handle	\$26.30	1
D66 BD6601		3.2x50mm 45 deg. Internal scraper		\$21.40	1
D75 BD7501		75mm long. Fits Adj scraper handle		\$28.80	1
D77 BD7701		75mm long. Fits Adj scraper handle		\$26.30	1
T 80 BT8001		Double medium scraper blade.	UH1000 handle (no holder required)	\$28.70	1
T 120 BT1201		Double ended ground scraper.		\$42.00	1















N BLADES

N80 BN8001		Round blade used with double burr	N80 & N80M42 are used with DB1000	\$11.00	1
N80M42 BN8043		N80 heat treated for stainless steel		\$20.40	1
N70K BN7001		For small keyways. 1.2 - 8mm	N70K, N80K, N80KM42, & N90K are used with KH1000 holder & UH1000 handle	\$19.00	1
N80K BN8101		Std blade for the keyway tool.2.4-11mm		\$18.00	1
N80KM42 BN8143		N80K heat treated for stainless steel.		\$21.40	1
N90K BN9001		For larger keyways. 3 - 15mm.		\$19.20	1

L & R BLADES

L1 BL1001		Used with Leader for steel & aluminium	LH1000 holder with UH1000 handle	\$7.40	1
R1 BR1001		For cross holes 3 - 5.5mm	Used with RC1000	\$30.50	1
R2 BR2001		For cross holes 5 - 9mm	Used with RC2000	\$33.00	1
R3 BR3001		For cross holes 10 - 22mm	Used with RC2200	\$36.40	1

SWIVEL BLADES

Name Cat No.		Description	Blade holder & handles	Price /blade	Pack size
N10 BN1310		Light duty for steel, aluminium and plastic	All "B" series & "N" series blades can be used with the following :	\$4.28	10
N10-Plastic BN1410		Specially ground for deburring plastics		\$4.50	10
N1 BN1010		Light duty for steel, aluminium and plastic		\$4.00	10
N1LH BN1026		N1 for left handed user.	SN1000 holder with UH1000 handle	\$7.10	10
N1 Tin BN1012		Tin coated N1 for long life.	or N holder EL01033 with NG-3 handle	\$8.13	10
N1 C BN1015		Solid carbide N1 for hardened steel and special plastics.	or TB1000 (no extra holder required) or NG-2 Handle	\$20.90	10
N2 (B20) BN2010		Light duty for brass & cast iron	The shank diameter on all "N" or "B" blades is 2.6mm	\$4.10	10
N2 C BN2015		Solid carbide N2 for ceramic and glass		\$20.00	10
N3 (B30) BN3010		Removes internal and external burrs simultaneously from holes drilled into tubing and sheet metal.		\$5.20	10
N6 (B60) BN6001		For cross holes in difficult to reach places		\$11.70	1
S10 (E100) BS1010		Heavy duty for steel, aluminium and plastic	All "S" or "E" series blades can be used with the following :	\$4.50	10
S10 LH BS1011		S10 For left handed users		\$9.50	10
S10 Tin BS1012		Tin coated S10 for long life.		\$10.50	10
S10 C BS1016 #		Solid carbide tipped S10 for hardened steel & special plastics	SN1000 holder with UH1000 handle or S holder EL02003 with NG-3 handle	\$36.00	1
S100 BS1018		Combination blade best for plastics & hard materials.	or NG1 (no extra holder required)	\$6.00	10
S101 (E110) BK1010		H/D shank with fine cutting edge for steel, aluminium and plastic.	or RB1000 (no extra holder required)	\$6.10	10
S101 LH BK1011		S101 for left handed users	The shank diameter on all "S" or "E" blades is 3.2mm	\$11.20	10
S101 Tin BK1012		Tin coated S101 for long life		\$11.70	10
S150 BK3010		H/D shank, for holes as small as 1.5mm diameter		\$6.40	10
S20 (E200) BS2010		Heavy duty for brass and cast iron		\$4.50	10
S20 C BS2015 #		Solid carbide tipped S20 for hardened materials		\$38.00	1
S202 BK2010		H/D shank with fine cutting edge for brass & cast iron		\$7.90	10
S30 (E300) BS3010		H/D removes internal & external burrs simultaneously from holes drilled into tubing & sheet metal		\$5.10	10
S35 (E350) BS3510		Heavy duty for straight edges		\$5.70	10
S60 (E600) BS6001		Heavy duty for cross holes in difficult to reach places		\$11.30	1
TC BC1001		Patented for internal thread cleaning & deburring from 9mm		\$23.54	1
OR BO1001		Patented HSS for "O" Ring grooves up to 3mm		\$24.00	1

Blades marked with # are non stock and may require minimum order quantities as special buy-ins

SPIDER BURR

Self Adjusting Chamfering Tool



Part No	Range	List Price
PC2000	75-110mm	\$230.05
PC3000	110-160mm	\$278.20
PC1100	Replacement Blade	\$46.01

Unique mechanism enables quick outer edge burr removal.

Extremely fast chamfering on external tubes Ideal for the outside diameter of plastic pipes.
Easy set up - the diameter of the Spider Burr automatically and quickly adjusts to the required outer circumference of the pipe.

Works on different plastic pipes and tubes such as UPVC, PVC, PP, PE, CPVC, ABS etc.
Working range: 75 - 110 mm (2½"- 4"), 110 - 160 mm (4"
Works best with standard electric/cordless drills - 14V and up.

For best performance run the drill at a low RPM.
Use the drill position setting.
Same blade is used for both models and is replaceable.



INNER / OUTER REAMER



Fast Chamfering up to 75mm on Plastic

Works on different plastic pipes and tubes such as UPVC, PVC, PP, PE, CPVC, ABS etc. Working range: 25 - 75 mm (3/4"- 2 1/2").
Works best with standard electric/cordless drills - 14V and up. **For best performance run the drill at a low RPM. Use the drill position setting.**



Part No	Range	List Price
PC6000	EXT 25-75mm INT 40-75mm	\$171.20
PC6100	Replacement Blade	\$40.13

CHIP HOOKS



NogaGrip handle, hand guard.

For removing : chips and cleaning chip trays on machines.

420mm overall length
SP2500 List Price \$45.50

595mm overall length
SP2550 List Price \$52.40

POWER ARMS NEW

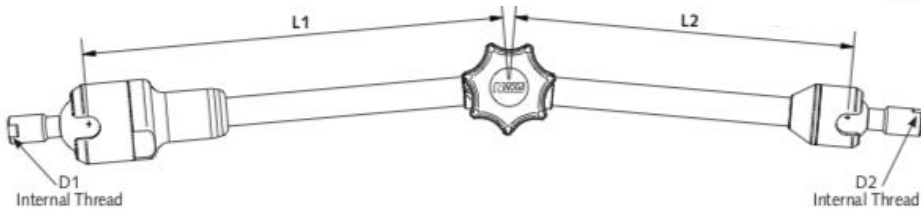
PA1300 (310mm), PA1500 (510mm), PA1800 (810mm)

LIST \$620.00

Noga unveils its state of the art Hybrid articulated arms. They are stronger, bigger, longer and outperform all other three-jointed articulating arms in the industry. simply sophisticated

They can hold heavy components and other production accessories that require extend articulation mounts.
New design combination of mechanical and hydraulic locking system, allowing to hold up to 25Kg.

Central locking system with spring loaded bearings. Black finish.



CODE		INT. THREAD		ARM LENGTH MM			MAX LOAD	LIST \$
	KG	D1	D2	L1	L2	L1+ L2	KG	
PA1300	1.18	M8 x 1.25	M8 x 1.25	180	130	310	25	\$620.00
PA1500	1.33	M8 x 1.25	M8 x 1.25	280	230	510	15	\$670.00
PA1800	1.54	M8 x 1.25	M8 x 1.25	430	380	810	10	\$730.00



CUTTING FLUID APPLICATORS

Strong Magnetic base, Separate On/Off air and fluid controls, Stainless steel armoured siphon hose and air hose, Nozzle connected via Loc-Line Flexible Hose, The spray unit comes in three standard lengths: 264, 334, 479 mm (special lengths available upon request).



NOGA Minicool **MC1700**

NOGA Minicool is using the VENTURI principle to spray an air + liquid mixture. The Minicool enables the user to easily control both the air flow rate and liquid rate.

- Strong magnetic base.
- Separate on/off air and fluid control.
- Stainless steel armoured syphone hose and air hose.
- Simple, inexpensive, rugged.
- Nozzle connected via Loc-Line® flexible hose.
- Single spray unit.

No. of spray units:	1
Spray unit length:	264mm
Air line length:	1m
Suction line length:	1m

NOGA Minicool **MC3000**

Identical to the MC1700 above, this Noga Minicool system has 2 spray units rather than 1.



NOGA Minicool **MC1400**

Part No	Descriptions	List Price
MC1400	14 Loc-line segments (permanent magnet)	\$256.80
MC1700	14 Loc-line segments (ON/OFF magnet)	\$256.80
MC1900	19 Loc-line segment (permanent magnet)	\$262.15
MC2900	29 Loc-line segments (permanent magnet)	\$267.50
MC3000	2 x14 Loc-line segments (ON/OFF magnet)	\$369.15

Part No	Descriptions	List Price
MC1601	32 kg/f with on/off switch flexible hose w/ a tap has additional outlet.	\$98.44

NOGA COOL ARM

FIXED & VARI HP COOL ARMS

The Fixed HP Cool Arm and Vari HP Cool Arm can be fitted with three different sizes of nozzles which will deliver fluids or cooling liquids at high pressure, up to 1000 PSI, allowing a higher level of machining. The arms are easy and fast to set in position.

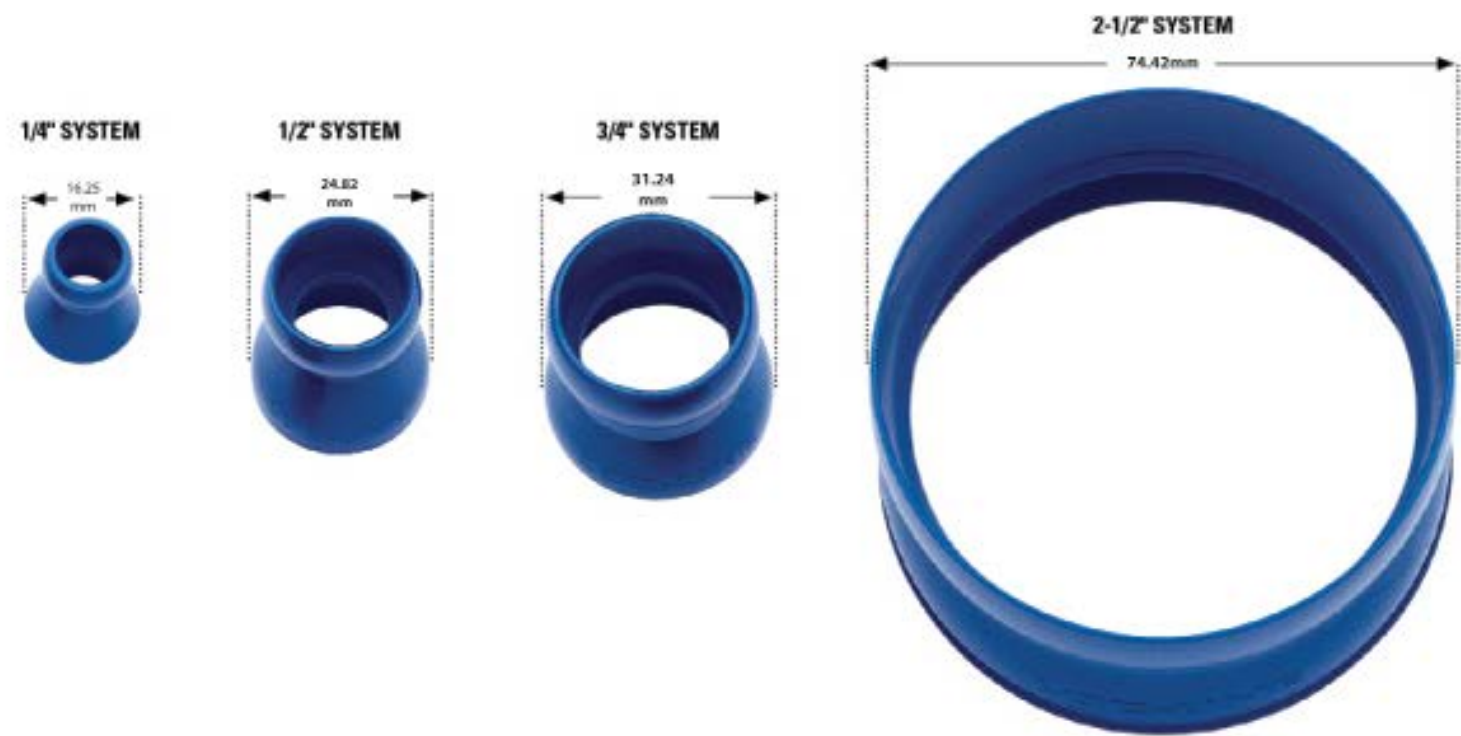
Part No	Descriptions	List Price
CA2000	Fixed HP Cool Arm. Single arm with 2 end ball joints so the nozzles can move on wide curve for positioning.	\$319.93
CA3000	Vari HP Cool Arm. Long Articulated Arms provide full axis rotation. Sturdy tightening fixtures for total stability.	\$369.19



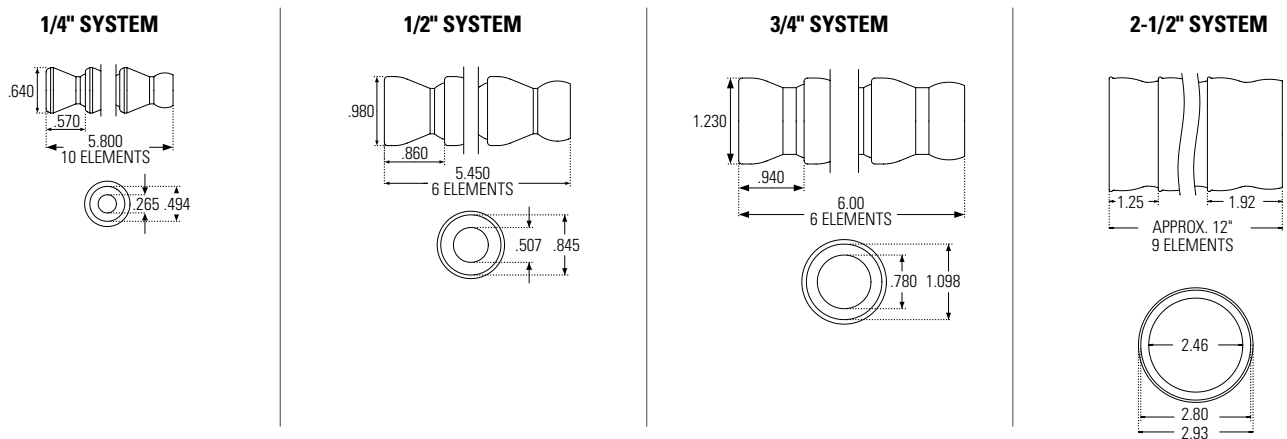
NOGA Manifold **MC1601**



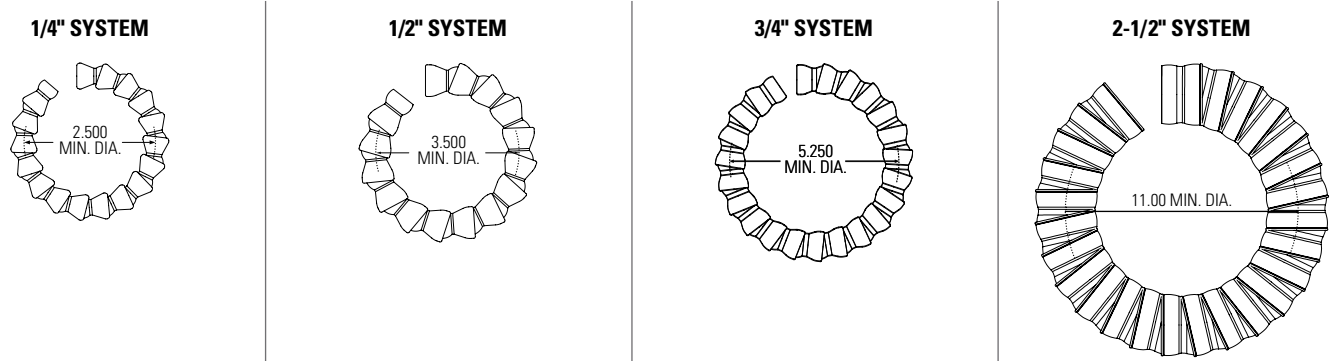
IDENTIFYING LOC-LINE SYSTEMS



MEASURING LOC-LINE



MINIMUM HOSE BENDING DIAMETER



LINE PRESSURE AND FLOW RATES

1/4" SYSTEM			Please note that all applications have variables and conditions that will affect the maximum hose pressures. Testing is always recommended whenever possible.	1/2" SYSTEM		
	LINE PRESSURE	FLOW RATE			LINE PRESSURE	FLOW RATE
Standard w/ clamps	50 PSI up to 110 PSI*	250 gal/hr		Standard w/ clamps	30 PSI up to 75 PSI*	478 gal/hr

MATERIAL SPECIFICATIONS

COMMON COMPATIBILITY WITH LOC-LINE ACETAL PRODUCTS		ACETAL TEMPERATURE DATA		COMMON COMPATIBILITY WITH LOC-LINE POLYESTER PRODUCTS	
BLUE	ORANGE	BLACK	GREY	WHITE	YELLOW
Yes	Acetone	No	Acids	Yes	Acetone
No	Alcohol, Ethyl	No	Ammonium Hydroxide, Strong	No	Acids, (Less than 150° F)
No	Bases, Strong	No	Commercial Dish Detergents	Yes	Acids, (Greater than 150° F)
Yes	Gasoline	Yes	Greases	Yes	Alcohols
Yes	Hypochlorite Ion Solutions	No	Lacquer Solvents	Yes	Aromatic Solvents
Yes	Oils	Yes	Sodium Hydroxide	No	Chlorinated Hydrocarbon
No	Sodium Hypochlorite	No	Salt Solutions	No	Bases, Strong
		ACETAL ANTI-STATIC ELECTRICAL PROPERTIES			
		BLACK (2 1/2" System)			
		Surface Resistivity: 1.000E3 Ohm			
		Volume Resistivity: <6.000E2 Ohm-cm			
		TEMPERATURE DATA - HPT NOZZLE			
		Maximum operating temperature: 115° F			
		TEMPERATURE DATA - POLYESTER			
		YELLOW			
		Melting point: 475° F			
		Maximum operating temperature: 170° F			



1/4-INCH SYSTEM

KITS

1/4" HOSE KIT

- 40413 \$25.60**
 (2) 5 3/4" Long Segments
 (1) 1/4" Round Nozzle
 (1) 1/8" Round Nozzle
 (1) 1/16" Round Nozzle
 (1) 1/4" NPT Connector
 (1) 1/8" NPT Connector

• Assembled Length = 13"

1/4" TAP HOSE NOZZLE KIT

- 40499 \$30.50**
 (1) 13" Length with Fitting
 (2) 5 3/4" Long Segments
 (1) 1/8" Round Nozzle
 (1) 1/4" NPT Male Valve

• Assembled Length = 13"

1/4" FLARED TUBING REPLACEMENT PACK

- 40452 \$93.00**
 (8) 5 3/4" Long Segments
 (1) 1" Flare Nozzle
 (4) 3/8" Flare Nut Adapters
 (4) 1/8" Round Nozzles
 (4) 1/4" Round Nozzles

1/2" LATHE ADAPTER KIT

- 40475 \$44.00**
 (4) 1/2" Short Adapters
 (4) 1/2" x 2" Adapters
 (2) Flat 5-Hole Nozzles
 (2) Flat Slot 60 Nozzles
 (2) 1/8" 90° Nozzles
 (2) 1/4" 90° Nozzles
 (2) 1/8" Round Nozzles
 (2) 1/4" Round Nozzles
 (2) Straight Flow Nozzles
 (4) Element Clamps w/ screws

- (8) Elements
 (1) 1/4" Assembly Pliers

15 MM LATHE ADAPTER KIT

- 40476 \$92.00**
 (4) 15 mm Short Adapters
 (4) 15 mm x 2" Adapters
 (2) Flat 5 Hole Nozzles
 (2) Flat Slot 60 Nozzles
 (2) 1/8" 90° Nozzles
 (2) 1/4" 90° Nozzles
 (2) 1/8" Round Nozzles
 (2) 1/4" Round Nozzles
 (2) Straight Flow Nozzles
 (4) Element Clamps w/ screws
 (8) Elements
 (1) 1/4" Assembly Pliers

1/4" EXTENDED ELBOW KIT

- 40472 \$46.50**
 (4) Extended Elbows
 (4) Element Clamps w/ screws
 (1) 1/8" NPT Connector
 (1) 1/4" NPT Connector
 (1) 1/16" Round Nozzle
 (1) 1/8" Round Nozzle
 (1) 1/4" Round Nozzle

1/4" MIXED ELEMENT KIT

- 40473 \$46.50**
 (2) Extended Elbows
 (2) Extended Elements
 (4) Element Clamps w/ screws
 (1) 1/8" NPT Connector
 (1) 1/4" NPT Connector
 (1) 1/16" Round Nozzle
 (1) 1/8" Round Nozzle
 (1) 1/4" Round Nozzle

1/4" EXTENDED ELBOWS WITH CLAMPS

- 40474 \$41.90**
 (4) Extended Elbows
 (4) Element Clamps w/ screws

1/4" EXTENDED ELEMENT KIT WITH CLAMPS

- 41475 \$44.00**
 (4) 1/4" Extended Elements
 (4) 1/4" Element Clamps w/ screws

1/4" CIRCLE FLOW NOZZLE KIT

- 41479 \$56.90**
 Assembled with:
 (15) 1/4" Side Flow Nozzles
 (1) 1/4" End Cap

Overall Length = 17.56"

1/4" PROSTREAM® NOZZLE KIT

- 42400 \$79.00**
 (1) 5 3/4" Long Segments
 (1) ProStream® Nozzle
 0.160"ø x 1.25"L
 (8) 1/4" Element Clamps w/ screws
 (1) 1/4" NPT Connector
 (1) 1/8" NPT Connector

HOSES

1/4" HOSE

- 41401 \$13.40**
 (2) 5 3/4" Long Segments*
49419 \$88.00
 (1) 5 ft Coil
49420 \$395.00
 (55) Segments*, Bulk 25-ft
49421 \$785.00
 (1) 50 ft Coil

*1 Segment = 10 Elements

1/4" EXTENDED ELEMENT

- 41476 \$29.00**
 (4) Extended Elements
49445 \$114.00
 (20) Extended Elements

1/4" EXTENDED ELBOW

- 41491 \$28.54**
 (4) Extended Elbows
49457 \$110.00
 (20) Extended Elbows

HOW TO ORDER BLACK, GRAY OR WHITE LOC-LINE:
 (Add suffix to part number when ordering, ie: 49421-BLK)
 ■-BLK Part can be ordered in Black, add suffix -BLK
 ■-G Part can be ordered in Gray, add suffix -G
 ■-W Part can be ordered in White, add suffix -W

LOC-LINE®

CONNECTORS

1/8" NPT CONNECTOR

- 41405 \$13.40**
 (4) NPT Connectors
49425 \$121.00
 (50) NPT Connectors

1/8" BSPT* CONNECTOR

- 41417 \$13.40**
 (4) BSPT Connectors
49437 \$124.00
 (50) BSPT Connectors

*British Standard Pipe Thread

1/4" NPT CONNECTOR

- 41406 \$13.40**
 (4) NPT Connectors
49426 \$121.00
 (50) NPT Connectors

1/4" BSPT* CONNECTOR

- 41418 \$13.40**
 (4) BSPT Connectors
49438 \$124.00
 (50) BSPT Connectors

*British Standard Pipe Thread

3/8" SAE FLARE NUT ADAPTER

- 41412 \$21.00**
 (4) Flare Nut Adapters
49432 \$59.45
 (20) Flare Nut Adapters

5/8 - 18 Thread

1/4" SAE FLARE NUT ADAPTER

- 41414 \$21.00**
 (4) Flare Nut Adapters
49434 \$59.45
 (20) Flare Nut Adapters

7/16 - 20 Thread

15 MM "SHORT" LATHE ADAPTER

- 41492 \$23.20**
 (4) Lathe Adapters
49458 \$88.00
 (20) Lathe Adapters

15 MM X 2" LATHE ADAPTER

- 41493 \$23.20**
 (4) Lathe Adapters
49459 \$88.00
 (20) Lathe Adapters

1/2" "SHORT" LATHE ADAPTER

- 41494 \$23.20**
 (4) Lathe Adapters
49460 \$88.00
 (20) Lathe Adapters

1/2" x 2" LATHE ADAPTER

- 41495 \$23.20**
 (4) Lathe Adapters
49461 \$88.00
 (20) Lathe Adapters

NOZZLES

1/4" NOZZLE-RAMA PACK

- 41490 \$91.00**
 (20) Includes 1 nozzle from each of these packages:
 41402, 41403, 41404, 41407, 41460, 41461, 41462, 41463, 41470, 41471, 41472, 41473, 41481, 41482, 41483, 41484, 41485, 41486 41488, 41489

1/4" 90° NOZZLE KIT

- 41474 \$21.60**
 (1) 1/16" 90° Nozzle
 (1) 1/8" 90° Nozzle
 (1) 1/4" 90° Nozzle
 (1) 1/4" 90° Spray Bar Nozz

1/4" FLAT NOZZLE ASSORTMENT PACK

- 41487 \$49.60**
 (1) Flat Slot 40 Nozzle
 (1) Flat Slot 60 Nozzle
 (1) Flat 5 Hole Nozzle
 (1) Flat 7 Hole Nozzle

1/16" ROUND NOZZLE

- 41402 \$13.40**
 (4) Round Nozzles
49422 \$121.00
 (50) Round Nozzles

1/8" ROUND NOZZLE

- 41403 \$13.40**
 (4) Round Nozzles
49423 \$121.00
 (50) Round Nozzles

1/4" ROUND NOZZLE

- 41404 \$13.40**
 (4) Round Nozzles
49424 \$121.00
 (50) Round Nozzles

1" FLARE NOZZLE

- 41407 \$21.00**
 (2) Flare Nozzles
49427 \$170.00
 (20) Flare Nozzles

1" STRAIGHT FLOW NOZZLE

- 41489 \$18.60**
 (2) Straight Flow Nozzles
49456 \$123.60
 (20) Straight Flow Nozzles

1/16" 90° NOZZLE

- 41470 \$18.30**
 (4) 90° Nozzles
49439 \$70.00
 (20) 90° Nozzles

1/8" 90° NOZZLE

- 41471 \$18.30**
 (4) 90° Nozzles
49440 \$70.00
 (20) 90° Nozzles

1/4" 90° NOZZLE



- 41472 \$18.30**
 (4) 90° Nozzles
49441 \$70.00
 (20) 90° Nozzles

1/4" 90° SPRAY BAR NOZZLE

- 41473 \$21.00**
 (2) 90° Spray Bar Nozzles
49442 \$171.00
 (20) 90° Spray Bar Nozzles

NOZZLES (continued)



3/32" 45° NOZZLE

- 41460**  **\$18.30**
(4) 3/32" 45° Nozzles
49470  **\$65.40**
(20) 3/32" 45° Nozzles

1/8" 45° NOZZLE

- 41461**  **\$18.30**
(4) 1/8" 45° Nozzles
49471  **\$65.40**
(20) 1/8" 45° Nozzles



3/16" 45° NOZZLE

- 41462**  **\$18.30**
(4) 3/16" 45° Nozzles
49472  **\$65.40**
(20) 3/16" 45° Nozzles



1/4" 45° NOZZLE

- 41463**  **\$18.30**
(4) 1/4" 45° Nozzles
49473  **\$65.40**
(20) 1/4" 45° Nozzles



1/4" FLAT SLOT 40 NOZZLE

- 41483**  **\$21.00**
(4) Flat Slot Nozzles
49451  **\$83.90**
(20) Flat Slot Nozzles
0.040" Slot height



1/4" FLAT SLOT 60 NOZZLE

- 41484**  **\$21.00**
(4) Flat Slot Nozzles
49452  **\$83.90**
(20) Flat Slot Nozzles
0.060" Slot height

1/4" FLAT 5-HOLE NOZZLE

- 41485**  **\$21.00**
(4) Flat 5-Hole Nozzles
49453  **\$83.90**
(20) Flat 5-Hole Nozzles
0.060" Hole diameter


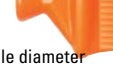
1/4" FLAT 7-HOLE NOZZLE

- 41486**  **\$21.00**
(4) Flat 7-Hole Nozzles
49454  **\$83.90**
(20) Flat 7-Hole Nozzles
0.040" Hole diameter


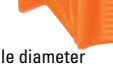
1/4" SIDE FLOW NOZZLE

- 41478**  **\$21.60**
(4) Side Flow Nozzles
49443  **\$228.00**
(20) Side Flow Nozzles



1/4" SWIVEL NOZZLE 40

- 41481**  **\$28.70**
(2) Swivel Nozzles
49449  **\$228.00**
(20) Swivel Nozzle
0.040" Hole diameter

1/4" SWIVEL NOZZLE 60



- 41482**  **\$28.70**
(2) Swivel Nozzles
49450  **\$228.00**
(20) Swivel Nozzles
0.060" Hole diameter

2 1/2" SWIVEL NOZZLE 75



- 41488**  **\$49.60**
(2) Swivel Nozzles
49455  **\$246.00**
(20) Swivel Nozzles
0.075" Hole diameter

BALL ADAPTERS



10 MMØ X 1/4" LOC-LINE® BALL ADAPTER

- 41740**  (2) Brass Ball Adapters
49740  (10) Brass Ball Adapters



12 MMØ X 1/4" LOC-LINE® BALL ADAPTER

- 41741**  (2) Brass Ball Adapters
49741  (10) Brass Ball Adapters



14 MMØ X 1/4" LOC-LINE® BALL ADAPTER

- 41743**  (2) Brass Ball Adapters
49743  (10) Brass Ball Adapters



15 MMØ X 1/4" LOC-LINE® BALL ADAPTER

- 41742**  (2) Brass Ball Adapters
49742  (10) Brass Ball Adapters



12 MMØ X 1/8" NPT BRASS BALL ADAPTER

- 41498**  (2) Brass Ball Adapters
49493  (10) Brass Ball Adapters

14 MMØ X 1/8" NPT BRASS BALL ADAPTER

- 41497**  (2) Brass Ball Adapters
49495  (10) Brass Ball Adapters

15 MMØ X 1/8" NPT BRASS BALL ADAPTER

- 41496**  (2) Brass Ball Adapters
49496  (10) Brass Ball Adapters

BRASS ADAPTERS
PACK 2: \$27.90 PACK 10: \$139.60

VALVES



1/4" MALE NPT VALVE

- 21192**  **\$33.00**
(2) Male NPT Valves
29452  **\$140.00**
(10) Male NPT Valves

1/4" FEMALE NPT VALVE

- 21193**  **\$33.00**
(2) Female NPT Valves
29453  **\$140.00**
(10) Female NPT Valves

1/4" IN-LINE VALVE

- 21194**  **\$33.00**
(2) In-Line Valves
29454  **\$140.00**
(10) In-Line Valves

1/4" IN-LINE CHECK VALVE

- 21191**  **\$33.00**
(2) Check Valves
29451  **\$140.00**
(10) Check Valves

ACCESSORIES



1/4" ELEMENT CLAMP

- 41477**  **\$21.60**
(4) Element Clamps w/ screws
49446  **\$81.00**
(20) Element Clamps w/ screws



1/4" Y

- 41408**  **\$21.60**
(2) Y's
49428  **\$170.00**
(20) Y's



1/4" DOUBLE SOCKET

- 41409**  **\$14.00**
(4) Double Sockets
49429  **\$56.00**
(20) Double Sockets

1/4" SOCKET X 1/8" FNPT

- 41411**  **\$17.60**
(4) 1/4" Socket X 1/8" FNPT
49431  **\$65.00**
(20) 1/4" Socket X 1/8" FNPT

1/4" ELBOW

- 41415**  **\$18.30**
(2) Elbows
49435  **\$146.30**
(20) Elbows

1/4" T

- 41416**  **\$21.80**
(2) T's
49436  **\$165.00**
(20) T's

1/4" END CAP

- 41480**  **\$14.00**
(4) End Caps
49447  **\$53.00**
(20) End Caps

1/4" BRASS HOSE BARB

- 40488**  **\$14.00**
(4) Brass Hose Barbs
49488  **\$68.70**
(10) Brass Hose Barbs

1/4" HOSE ASSEMBLY PLIERS


- 78001**  **\$32.00**
(1) 1/4" Pliers
78003  **\$58.00**
(1) 1/4" Pliers
(1) 1/2" Pliers

MANIFOLDS

MAGNETIC BASE MANIFOLD

- 40400**  **\$75.00**
(1) Magnetic Base Manifold
(3) 1/4" Plugs
(1) 1/4" Barb
25 lb / 11.3kg Holding Force

MAGNETIC BASE MANIFOLD KIT

- 40463**  **\$167.00**
(2) 5 3/4" Long Segments
(1) 1/4" MNPT Valve
(1) 1" Flare Nozzle
(1) 1/4" Round Nozzle
(1) 1/8" Round Nozzle
(1) 1/16" Round Nozzle
(1) Mag. Base Manifold
(3) 1/4" Plugs
(1) 1/4" Barb

MAGNETIC BASE MANIFOLD SUPER KIT

- 40480**  **\$290.00**
(8) 5 3/4" Long Segments
(5) 1/4" MNPT Valves
(2) 1" Flare Nozzles
(2) 1/4" Round Nozzles
(2) 1/8" Round Nozzles
(2) 1/16" Round Nozzles
(1) Mag. Base Manifold
(3) 1/4" Plugs
(1) 1/4" Barb

1/4" MODULAR MANIFOLD BRACKET

- 21195**  **\$14.00**
(2) Brackets

1/4" MODULAR MANIFOLD

- 21199**  **\$42.90**
(3) 1/4" T's
(1) 1/4" Elbow
(1) 1/4" Manifold Bracket
(3) Mounting Screws

1/4" TOTAL FLOW CONTROL MANIFOLD

- 21198**  **\$101.00**
(1) 1/4" Modular Manifold
(5) 1/4" In-Line Valves



1/2-INCH SYSTEM

KITS

1/2" HOSE KIT

- 50813 \$28.70**
(2) 5½" Long Segments
(1) 1/4" Round Nozzle
(1) 3/8" Round Nozzle
(1) 1/2" Round Nozzle
(1) 3/8" NPT Connector
(1) 1/2" NPT Connector
• Assembled Length = 13"

1/2" MIXED ELEMENT KIT

- 50873 \$55.00**
(1) 3/8" NPT Connector
(1) 1/2" NPT Connector
(1) 1/4" Round Nozzle
(1) 3/8" Round Nozzle
(1) 1/2" Round Nozzle
(2) Extended Elbows
(2) Extended Elements
(4) Element Clamps w/ screws

1/2" SYSTEM HOSE & TAP KIT

- 50899 \$36.00**
(2) 5½" Long Segments
(1) 3/8" Round Nozzle
(1) 1/2" NPT Male Valve
• Assembled Length = 13"

1/2" EXTENDED ELBOWS WITH CLAMPS

- 50874 \$39.50**
(4) Extended Elbows
(4) Element Clamps w/ screws

1/2" EXTENDED ELEMENT KIT W/ CLAMPS

- 51835 \$39.50**
(4) 1/2" Extended Elements
(4) Element Clamps w/ screws

1/2" EXTENDED ELBOW KIT

- 50872 \$55.00**
(1) 3/8" NPT Connector
(1) 1/2" NPT Connector
(1) 1/4" Round Nozzle
(1) 3/8" Round Nozzle
(1) 1/2" Round Nozzle
(4) Extended Elbows
(4) Element Clamps w/ screws

1/2" CIRCLE FLOW NOZZLE KIT

- 51837 \$64.00**
Assembled with
(15) 1/2" Side Flow Nozzles
(1) 1/2" End Cap
• Overall Length = 24.375"

HOSES

1/2" HOSE

- 51801 \$23.70**
(2) 5½" Long Segments
59860 \$525.00
(59) Segments, Bulk 25 ft
59859 \$109.00
(1) 5 ft Coil
59861 \$1,029.00
(1) 50 ft Coil
• 1 Segment = 6 Elements

1/2" EXTENDED ELEMENT

- 51833 \$33.00**
(4) Extended Elements
59883 \$134.00
(20) Extended Elements

1/2" EXTENDED ELBOW

- 51896 \$33.00**
(4) Extended Elbows
59899 \$134.00
(20) Extended Elbows

CONNECTORS

3/8" NPT CONNECTOR

- 51804 \$14.80**
(4) NPT Connectors
59864 \$134.00
(50) NPT Connectors

3/8" BSPT* CONNECTOR

- 51826 \$14.80**
(4) BSPT Connectors
59876 \$134.00
(50) BSPT Connectors
* British Standard Pipe Thread

1/2" NPT CONNECTOR

- 51805 \$14.80**
(4) NPT Connectors
59865 \$134.00
(50) NPT Connectors

1/2" BSPT* CONNECTOR

- 51827 \$14.80**
(4) BSPT Connectors
59877 \$134.00
(50) BSPT Connectors
* British Standard Pipe Thread

3/8" SAE FLARE NUT ADAPTER

- 51823 \$21.60**
(4) Flare Nut Adapters
59873 \$61.70
(20) Flare Nut Adapters
5/8 - 18 Thread

HOW TO ORDER BLACK, GRAY OR WHITE LOC-LINE:
(Add suffix to part number when ordering, ie: 49421-BLK)
■-BLK Part can be ordered in Black, add suffix -BLK
■-G Part can be ordered in Gray, add suffix -G
■-W Part can be ordered in White, add suffix -W

LOC-LINE

NOZZLES

1/2" NOZZLE-RAMA PACK

- 51849 \$102.50**
(16) Includes 1 nozzle from each of these packages:
51802, 51803, 51806, 51807, 51809, 51828, 51829, 51830, 51831, 51840, 51841 51842, 51843, 51845, 51847, 51848

1/2" 90° NOZZLE KIT

- 51832 \$25.00**
(1) 1/4" 90° Nozzle
(1) 3/8" 90° Nozzle
(1) 1/2" 90° Nozzle
(1) 1/2" 90° Spray Bar Nozzle

1/2" FLAT NOZZLE ASSORTMENT

- 51844 \$53.00**
(1) Flat Slot 80 Nozzle
(1) Flat Slot 125 Nozzle
(1) Flat 5-Hole Nozzle
(1) Flat 7-Hole Nozzle

1/4" ROUND NOZZLE FOR 1/2"

- 51806 \$14.80**
(4) Round Nozzles
59866 \$155.00
(50) Round Nozzles

3/8" ROUND NOZZLE

- 51802 \$14.80**
(4) Round Nozzles
59862 \$155.00
(50) Round Nozzles

1/2" ROUND NOZZLE

- 51803 \$14.80**
(4) Round Nozzles
59863 \$155.00
(50) Round Nozzles

1/4" 90° NOZZLE

- 51828 \$22.20**
(4) 90° Nozzles
59878 \$91.00
(20) 90° Nozzles

3/8" 90° NOZZLE

- 51829 \$22.20**
(4) 90° Nozzles
59879 \$91.00
(20) 90° Nozzles

1/2" 90° NOZZLE

- 51830 \$22.20**
(4) 90° Nozzles
59880 \$91.00
(20) 90° Nozzles

1/2" 90° SPRAY BAR NOZZLE

- 51831 \$22.20**
(2) 90° Spray Bar Nozzles
59881 \$91.00
(20) 90° Spray Bar Nozzles

1¼" FLARE NOZZLE

- 51807 \$24.00**
(2) Flare Nozzles
59867 \$196.00
(20) Flare Nozzles

2½" FLARE NOZZLE

- 51809 \$26.70**
(2) Flare Nozzles
59871 \$201.00
(20) Flare Nozzles

1/2" SIDE FLOW NOZZLE

- 51836 \$25.20**
(4) Side Flow Nozzles
59889 \$69.30
(20) Side Flow Nozzles

2½" SWIVEL NOZZLE 75 FOR 1/2"

- 51845 \$34.00**
(2) Swivel Nozzles
59895 \$267.00
(20) Swivel Nozzles
• .075" Hole diameter

1¼" STRAIGHT FLOW NOZZLE

- 51847 \$23.00**
(2) Straight Flow Nozzles
59897 \$150.00
(20) Straight Flow Nozzles

1¼" STRAIGHT FLOW NOZZLE

- 51848 \$26.50**
(2) Straight Flow Nozzles
59898 \$170.00
(20) Straight Flow Nozzles

1/2" FLAT SLOT 80 NOZZLE

- 51840 \$53.00**
(4) Flat Slot Nozzles
59890 \$210.00
(20) Flat Slot Nozzles
• .080" Slot height

1/2" FLAT SLOT 125 NOZZLE

- 51841 \$53.00**
(4) Flat Slot Nozzles
59891 \$210.00
(20) Flat Slot Nozzles
• .125" Slot height

1/2" FLAT 5-HOLE NOZZLE































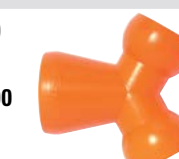





















- 51842 \$53.00**
(4) Flat 5-Hole Nozzles
59892 \$210.00
(20) Flat 5-Hole Nozzles
• .125" Hole diameter




1/2" FLAT 7 HOLE NOZZLE

- 51843 \$53.00**
(4) Flat 7-Hole Nozzles
59893 \$210.00
(20) Flat 7-Hole Nozzles
• .080" Hole diameter

















VALVES		
1/2" MALE NPT VALVE		
32092 	\$41.30	
(2) Male NPT Valves		
39852  	\$177.00	
(10) Male NPT Valves		
1/2" FEMALE NPT VALVE		
32093 	\$41.30	
(2) Female NPT Valves		
39853  	\$177.00	
(10) Female NPT Valves		
1/2" IN-LINE VALVE		
32094 	\$41.30	
(2) In-Line Valves		
39854  	\$177.00	
(10) In-Line Valves		
1/2" IN-LINE CHECK VALVE		
32091 	\$51.00	
(2) Check Valves		
39851  	\$177.00	
(10) Check Valves		













ACCESSORIES		
1/2" ELEMENT CLAMP		
51834 	\$26.50	
(4) Element Clamps w/ screws		
59884   	\$113.00	
(20) Element Clamps w/ screws		
1/2" END CAP		
51838 	\$25.20	
(4) End Caps		
59885   	\$68.00	
(20) End Caps		
1/2" DOUBLE SOCKET		
51811 	\$17.60	
(4) Double Sockets		
59872   	\$74.20	
(20) Double Sockets		
1/2" ELBOW		
51824 	\$21.60	
(2) Elbows		
59874   	\$157.00	
(20) Elbows		
1/2" T		
51825 	\$25.00	
(2) T's		
59875   	\$179.00	
(20) T's		
1/2" MAGNETIC BASE		
51846   	\$36.20	
(1) Magnetic Base		
• 60 lb holding force		
1/2" Y		
51808 	\$23.00	
(2) Y's		
59868   	\$173.00	
(20) Y's		
1/2" TO 1/4" Y REDUCER		
51822 	\$23.00	
(2) Y Reducers		
59870   	\$184.00	
(20) Y Reducers		
1/2" TO 1/4" REDUCER		
51821 	\$17.60	
(2) Reducers		
59869   	\$192.00	
(20) Reducers		
1/2" FIXED MOUNT		
51895 	\$12.50	
(2) Fixed Mounts		
59896   	\$99.10	
(20) Fixed Mounts		
• Mounts with 1/4" bolt, not included		
1/2" HOSE ASSEMBLY PLIERS		
78002 	\$32.00	
(1) 1/2" pliers		
78003 	\$58.00	
(1) 1/4" pliers		
(1) 1/2" pliers		













MANIFOLDS		
1/2" MODULAR MANIFOLD		
32099	\$45.00	
(3) 1/2" T's		
(1) 1/2" Elbow		
(1) 1/2" Manifold Bracket		
(3) Mounting Screws		
1/2" TOTAL FLOW CONTROL MANIFOLD		
32098	\$118.00	
(1) 1/2" Modular Manifold		
(5) 1/2" In-Line Valves		
1/2" MODULAR MANIFOLD BRACKET		
32095	\$17.00	
(2) Brackets		

3/4-INCH SYSTEM

LOC-LINE

KIT		HOSES		CONNECTORS	
3/4" HOSE KIT		3/4" HOSE		3/4" NPT CONNECTOR	
60513 	\$37.00	61501 	\$24.00	61505 	\$19.00
(2) 5 3/4" Long Segments		(2) 5 3/4" Long Segments		(4) NPT Connectors	
(1) 5/8" Round Nozzle		69539  	\$112.00	69545  	\$168.00
(1) 3/4" Round Nozzle		(1) 5 ft Coil		(50) NPT Connectors	
(1) 3/4" NPT Connector		69540  	\$495.00	3/4" BSPT* CONNECTOR	
• Assembled Length = 14"		(54) Segments, Bulk 25 ft		61509 	\$18.60
		69541  	\$994.00	(4) BSPT Connectors	
		(1) 50 ft Coil		69549  	\$203.00
		• 1 Segment = 6 Elements		(50) BSPT Connectors	
				* British Standard Pipe Thread	

NOZZLES		
5/8" ROUND NOZZLE		
61503 	\$19.00	
(4) Round Nozzles		
69543  	\$168.00	
(50) Round Nozzles		
3/4" ROUND NOZZLE		
61502 	\$19.00	
(4) Round Nozzles		
69542  	\$168.00	
(50) Round Nozzles		
3" FLARE NOZZLE		
61507 	\$30.70	
(2) Flare Nozzles		
69547  	\$208.00	
(20) Flare Nozzles		

VALVES		
3/4" MALE NPT VALVE		
61516 	\$52.60	
(2) NPT Valves		
69556  	\$243.00	
(10) NPT Valves		
3/4" FEMALE NPT VALVE		
61517 	\$52.60	
(2) Female NPT Valves		
69557  	\$243.00	
(10) Female NPT Valves		
3/4" IN-LINE VALVE		
61518 	\$52.60	
(2) In-Line Valves		
69558  	\$243.00	
(10) In-Line Valves		

ACCESSORIES

3/4" ELEMENT CLAMP

61535


\$33.00

(4) Element Clamps w/ screws

69565

\$85.65

(20) Element Clamps w/ screws



3/4" Y

61511


\$31.00

(2) Y's

69551

\$241.00

(20) Y's



3/4" ELBOW

61515


\$27.00

(2) Elbows

69555

\$209.50

(20) Elbows



3/4" TO 1/2" Y REDUCER

61512


\$31.00

(2) Y Reducers

69552

\$241.00

(20) Y Reducers



3/4" TO 1/2" REDUCER

61508


\$18.00

(2) Reducers

69548

\$203.00

(20) Reducers



3/4" DOUBLE SOCKET

61514


\$21.50

(4) Double Sockets

69554

\$85.70

(20) Double Sockets



3/4" FIXED MOUNT

60533

\$16.90


(2) Fixed Mounts

69563

\$131.00

(20) Fixed Mounts

• Mounts with 1/4" bolt, not included




3/4" HOSE ASSEMBLY PLIERS

78004

\$42.00

(1) 3/4" Pliers

• 3/4" Assembly Pliers will not assemble the 3/4" Y Fitting, the 3/4" Fixed Mount or the 3/4" Valves.



HOW TO ORDER BLACK, GRAY OR WHITE LOC-LINE:
(Add suffix to part number when ordering, ie: 49421-BLK)

-BLK

 Part can be ordered in Black, add suffix -BLK

-G

 Part can be ordered in Gray, add suffix -G

-W

 Part can be ordered in White, add suffix -W

QUICK-SET™ SHIELDS

KIT

QUICK-SET SHIELD™ KIT

- 60525 \$100.40**
(1) 6"x8" Shield Kit
- 60526 \$109.00**
(1) 7½"x10" Shield Kit
- 60527 \$118.00**
(1) 8½"x12" Shield Kit

• All Quick-Set Shield Kits include a 14" adjustable 3/4" Loc-Line® arm, magnetic base and fitting for fixed mounting.



ACCESSORIES

SHIELD MOUNTING ELBOW

- 60531 \$20.40**
(2) Mounting Elbows
- 69561 \$155.40**
(20) Mounting Elbows
- Washer and screw included



REPLACEMENT SHIELD

- 60528 \$28.00**
(1) 6" x 8" Shield
- 60529 \$35.00**
(1) 7½" x 10" Shield
- 60530 \$43.00**
(1) 8½" x 12" Shield



3/4" MAGNETIC BASE

- 60532 \$37.60**
(1) Magnetic Base
- 60 lb holding force



3/4" FIXED MOUNT

- 60533 \$37.60**
(2) Fixed Mounts
- 69563 \$131.00**
(20) Fixed Mounts



• Mounts with 1/4" bolt, not included.

MIRROR PRODUCTS

KIT

INSPECTION MIRROR KIT

- 50501 \$112.00**
(1) 2.125" x 3.5" Mirror
(1) Mirror Mount Nozzle
(1) Mirror Link
(1) 1/2" x 11" Hose
(1) 1/2" Magnetic Base



ACCESSORIES

1/2" MIRROR MOUNT

- 51503 \$16.70**
(2) Mirror Mounts



REPLACEMENT MIRROR

- 51501 \$16.05**
(1) 2.125" x 3.5" Mirror



MIRROR LINK

- 51502 \$12.10**
(2) Mirror Links



HOW TO ORDER BLACK, GRAY OR WHITE LOC-LINE:
(Add suffix to part number when ordering, ie: 49421-BLK)
■-BLK Part can be ordered in Black, add suffix -BLK
■-G Part can be ordered in Gray, add suffix -G
■-W Part can be ordered in White, add suffix -W

2 1/2-INCH SYSTEM

KIT

VACUUM HOSE KIT FOR 2½" SHOP VACUUM

- 80813 \$107.00**
(2) 12" Vacuum Hose
(1) Rectangular Nozzle
(1) Tapered Nozzle
(1) Shop Vacuum Hose Adapter with Mounting Tab
(1) Shop Vacuum Canister Adapter



HOSES

2½" HOSE

- 81201 \$64.00**
(1) 12" Segment*
- 81202 \$119.00**
(2) 12" Segments
- 89220**
(20) 12" Segments

*1 Segment = 9 Elements
• Hose Bending Radius = 5.75"



CONNECTORS

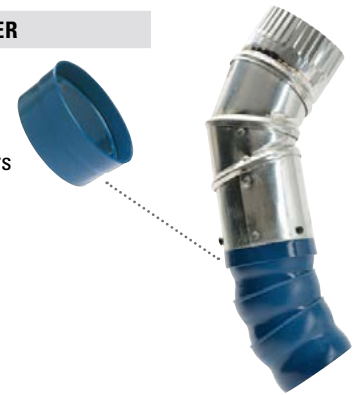
3" THIN WALL PVC DWV SCH. 30 ADAPTER

- 81206 \$17.50**
(1) Sch. 30 PVC Adapter
- 89226 \$118.00**
(10) Sch. 30 PVC Adapters



3" SHEET METAL DUCT ADAPTER

- 81207 \$17.50**
(1) Sheet Metal Duct Adapter
- 89227 \$118.00**
(10) Sheet Metal Duct Adapters



NOZZLES

4½" ROUND NOZZLE

- 81203 \$22.00**
(1) Round Nozzle
- 89223 \$148.00**
(10) Round Nozzles



6" x 3½" RECTANGULAR NOZZLE

- 81204 \$22.00**
(1) Rectangular Nozzle
- 89224 \$148.00**
(10) Rectangular Nozzles



TAPERED OVAL NOZZLE

- 81205 \$22.00**
(1) Oval Nozzle
- 89225 \$148.00**
(10) Oval Nozzles



VALVES

2½" SLIDE VALVE

- 81208 \$43.00**
(1) Slide Valve
- 89228 \$83.86**
(10) Slide Valves



ACCESSORIES

SHOP VACUUM HOSE ADAPTER WITH MOUNTING TAB

- 81209 \$15.40**
(1) Shop Vacuum Adapter
- 89229 \$90.07**
(10) Shop Vacuum Adapters



SHOP VACUUM CANISTER ADAPTER

- 81210 \$10.14**
(1) Shop Vacuum Canister Adapter
- 89230 \$90.07**
(10) Shop Vacuum Canister Adapters



ANTI-STATIC

2½" HOSE

- 81301AS \$71.60**
(1) 12" Anti-Static Segment*
- 81302AS \$133.00**
(2) 12" Anti-Static Segments
- 89320AS \$680.00**
(20) 12" Anti-Static Segments
- *1 Segment = 9 Elements



4½" ROUND NOZZLE

- 81303AS \$25.00**
(1) Anti-Static Round Nozzle
- 89323AS \$133.15**
(10) Anti-Static Round Nozzles



6" x 3½" RECTANGULAR NOZZLE

- 81304AS \$25.00**
(1) Anti-Static Rectangular Nozzle
- 89324AS \$133.15**
(10) Anti-Static Rectangular Nozzles



TAPERED OVAL NOZZLE

- 81305AS \$25.00**
(1) Anti-Static Oval Nozzle
- 89325AS \$133.15**
(10) Anti-Static Oval Nozzles



2½" SLIDE VALVE

- 81308AS \$61.50**
(1) Anti-Static Slide Valve
- 89328AS \$318.30**
(10) Anti-Static Slide Valves



3" SHEET METAL DUCT ADAPTER

- 81307AS \$20.30**
(1) Anti-Static Metal Duct Adapter
- 89327AS \$103.56**
(10) Anti-Static Metal Duct Adapters





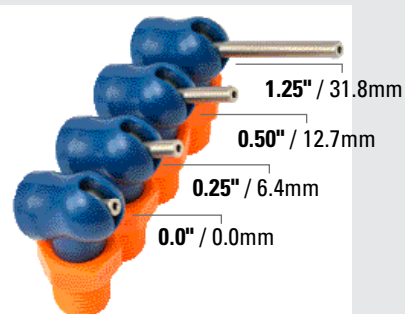
CT HPT NOZZLES

High Pressure Turret (HPT) Nozzles expand the working pressure range to a maximum 1,000 PSI, allowing a higher level of machining while providing the same LOC-LINE® quality and ease of control you've come to expect. Maximum operating temperature is 115° F/ 46° C.

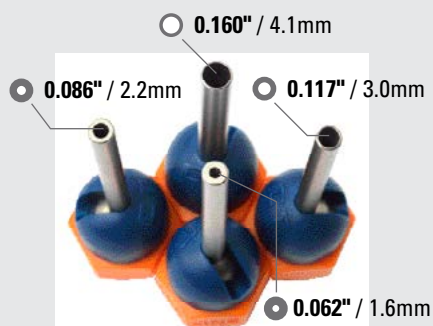
The **CT** (Compact Turret) style nozzle is designed for tight spaces, from 0 to 1000 PSI.



TECH SPECS



FOUR NOZZLE LENGTHS
Available on both CT and XR Nozzles

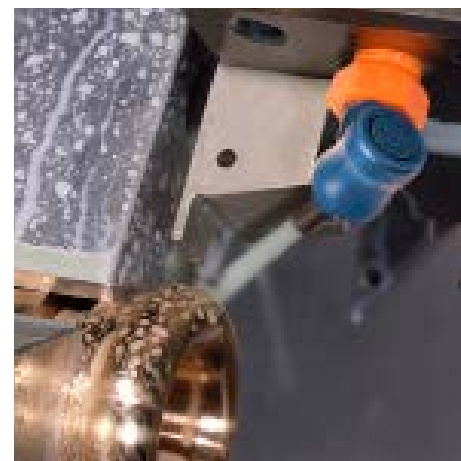


Available on both CT and XR Nozzles

10 PC. PACKAGES ARE AVAILABLE IN BLACK AND GRAY. TO ORDER BLACK OR GRAY LOC-LINE:
-BLK Part can be ordered in Black. Add suffix to part number when ordering, ie: 49421-BLK
-G Part can be ordered in Gray. Add suffix to part number when ordering, ie: 49421-G



The **XR** (Extended Rotation) style nozzle features a wide nozzle swing and the ability to aim coolant below the horizontal plane, from 0 to 1000 PSI.



LOC-LINE®

1/8" NPT/BSPT THREAD XR STYLE NOZZLES

0.0" NOZZLE LENGTH	0.5" NOZZLE LENGTH
2 PACKS: \$94.21 10 PACKS: \$428.20	2 PACKS: \$103.89 10 PACKS: \$453.89
72040 (2) Nozzles, 0.062" ø	72042 (2) Nozzles, 0.062" ø
79040 (2) -BLK -G (10) Nozzles	79042 (2) -BLK -G (10) Nozzles
72044 (2) Nozzles, 0.086" ø	72046 (2) Nozzles, 0.086" ø
79044 (2) -BLK -G (10) Nozzles	79046 (2) -BLK -G (10) Nozzles
72048 (2) Nozzles, 0.117" ø	72050 (2) Nozzles, 0.117" ø
79048 (2) -BLK -G (10) Nozzles	79050 (2) -BLK -G (10) Nozzles
72052 (2) Nozzles, 0.160" ø	72054 (2) Nozzles, 0.160" ø
79052 (2) -BLK -G (10) Nozzles	79054 (2) -BLK -G (10) Nozzles
0.25" NOZZLE LENGTH	1.25" NOZZLE LENGTH
2 PACKS: \$94.21 10 PACKS: \$428.20	2 PACKS: \$105.51 10 PACKS: \$479.61
72041 (2) Nozzles, 0.062" ø	72043 (2) Nozzles, 0.062" ø
79041 (2) -BLK -G (10) Nozzles	79043 (2) -BLK -G (10) Nozzles
72045 (2) Nozzles, 0.086" ø	72047 (2) Nozzles, 0.086" ø
79045 (2) -BLK -G (10) Nozzles	79047 (2) -BLK -G (10) Nozzles
72049 (2) Nozzles, 0.117" ø	72051 (2) Nozzles, 0.117" ø
79049 (2) -BLK -G (10) Nozzles	79051 (2) -BLK -G (10) Nozzles
72053 (2) Nozzles, 0.160" ø	72055 (2) Nozzles, 0.160" ø
79053 (2) -BLK -G (10) Nozzles	79055 (2) -BLK -G (10) Nozzles

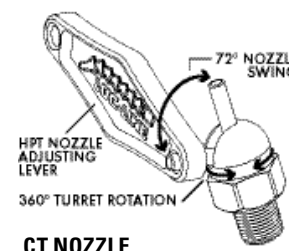
1/4" NPT/BSPT THREAD XR STYLE NOZZLES

0.0" NOZZLE LENGTH	0.5" NOZZLE LENGTH
2 PACKS: \$94.21 10 PACKS: \$428.20	2 PACKS: \$103.89 10 PACKS: \$453.89
72080 (2) Nozzles, 0.062" ø	72082 (2) Nozzles, 0.062" ø
79080 (2) -BLK -G (10) Nozzles	79082 (2) -BLK -G (10) Nozzles
72084 (2) Nozzles, 0.086" ø	72086 (2) Nozzles, 0.086" ø
79084 (2) -BLK -G (10) Nozzles	79086 (2) -BLK -G (10) Nozzles
72088 (2) Nozzles, 0.117" ø	72090 (2) Nozzles, 0.117" ø
79088 (2) -BLK -G (10) Nozzles	79090 (2) -BLK -G (10) Nozzles
72092 (2) Nozzles, 0.160" ø	72094 (2) Nozzles, 0.160" ø
79092 (2) -BLK -G (10) Nozzles	79094 (2) -BLK -G (10) Nozzles
0.25" NOZZLE LENGTH	1.25" NOZZLE LENGTH
2 PACKS: \$94.21 10 PACKS: \$428.20	2 PACKS: \$105.51 10 PACKS: \$479.61
72081 (2) Nozzles, 0.062" ø	72083 (2) Nozzles, 0.062" ø
79081 (2) -BLK -G (10) Nozzles	79083 (2) -BLK -G (10) Nozzles
72085 (2) Nozzles, 0.086" ø	72087 (2) Nozzles, 0.086" ø
79085 (2) -BLK -G (10) Nozzles	79087 (2) -BLK -G (10) Nozzles
72089 (2) Nozzles, 0.117" ø	72091 (2) Nozzles, 0.117" ø
79089 (2) -BLK -G (10) Nozzles	79091 (2) -BLK -G (10) Nozzles
72093 (2) Nozzles, 0.160" ø	72095 (2) Nozzles, 0.160" ø
79093 (2) -BLK -G (10) Nozzles	79095 (2) -BLK -G (10) Nozzles

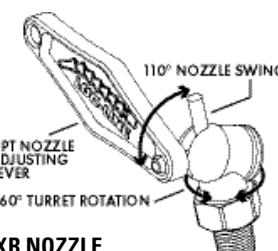
NOZZLE ADJUSTMENT LEVER

ADJUSTMENT LEVERS

72000 (2) Adjustment Levers	\$14.38
79000 (10) Adjustment Levers	\$65.43



CT NOZZLE
ADJUSTMENT



XR NOZZLE
ADJUSTMENT

ACID RESISTANT SYSTEM









1/4" ACID RESISTANT		
1/4" ACID RESISTANT HOSE KIT		
45463	\$34.00	
(2) 5 3/4" Long Segments		
(1) 1/4" Nozzle		
(1) 1/8" Nozzle		
(1) 1/16" Nozzle		
(1) 1/4" NPT Connector		
(1) 1/8" NPT Connector		
1/4" ACID RESISTANT HOSE		
45401	\$25.20	
(2) 5 3/4" Long Segments		
46420	\$460.00	
(55) Segments, Bulk 25-ft		
46419	\$91.00	
(1) 5 ft Coil		
46421	\$922.00	
(1) 50 ft Coil		
1/16" ACID RESISTANT NOZZLE		
45402	\$16.00	
(4) Round Nozzles		
46422	\$162.00	
(50) Round Nozzles		
1/8" ACID RESISTANT NOZZLE		
45403	\$16.00	
(4) Round Nozzles		
46423	\$162.00	
(50) Round Nozzles		
1/4" ACID RESISTANT NOZZLE		
45404	\$16.00	
(4) Round Nozzles		
46424	\$162.00	
(50) Round Nozzles		
1" ACID RESISTANT FLARE NOZZLE		
45407	\$24.60	
(2) Flare Nozzles		
46427	\$185.00	
(20) Flare Nozzles		
1/8" ACID RESISTANT NPT CONNECTOR		
45405	\$16.00	
(4) NPT Connectors		
46425	\$162.00	
(50) NPT Connectors		
1/4" ACID RESISTANT NPT CONNECTOR		
45406	\$16.00	
(4) NPT Connectors		
46426	\$162.00	
(50) NPT Connectors		
1/4" ACID RESISTANT Y		
45408	\$24.60	
(2) Y's		
46428	\$185.00	
(20) Y's		
1/4" ACID RESISTANT DOUBLE SOCKET		
45409	\$13.40	
(4) Double Sockets		
46429	\$52.75	
(20) Double Sockets		
1/4" SOCKET X 1/8" FNPT ACID RESISTANT		
45411	\$20.70	
(4) 1/4" Socket X 1/8" FNPT		
46431	\$83.00	
(20) 1/4" Socket X 1/8" FNPT		
1/4" ACID RESISTANT ELBOW		
45415	\$22.30	
(2) Elbows		
46435	\$178.00	
(20) Elbows		
1/4" ACID RESISTANT T		
45416	\$24.60	
(2) T's		
46436	\$196.00	
(20) T's		
1/4" ACID RESISTANT SWIVEL NOZZLE 40		
45481	\$27.00	
(2) Swivel Nozzles		
46449	\$263.00	
(20) Swivel Nozzles		
1/4" ACID RESISTANT SWIVEL NOZZLE 60		
45482	\$27.00	
(2) Swivel Nozzles		
46450	\$216.15	
(20) Swivel Nozzles		
<ul style="list-style-type: none">• Loc-Line® Acid Resistant Hose is excellent for rinsing cycles in plating operations.• Acid environments won't corrode the Loc-Line® Acid Resistazzzznt Hose because of its polyester composition. CAUTION: Loc-Line® Acid Resistant Hose is not intended for conveying acids or high pressure applications.		



1/2" ACID RESISTANT		
1/2" ACID RESISTANT HOSE KIT		
56863	\$37.00	
(2) 5½" Long Segments		
(1) 1/4" Round Nozzle		
(1) 3/8" Round Nozzle		
(1) 1/2" Round Nozzle		
(1) 3/8" NPT Connector		
(1) 1/2" NPT Connector		
1/2" ACID RESISTANT HOSE		
56801	\$28.00	
(2) 5½" Long Segments		
57860	\$640.00	
(59) Segments, Bulk 25 ft		
57859	\$109.90	
(1) 5 ft Coil		
57861	\$1,290.00	
(1) 50 ft Coil		
1/4" ACID RESISTANT NOZZLE		
56806	\$19.00	
(4) Round Nozzles		
57866	\$198.00	
(50) Round Nozzles		
3/8" ACID RESISTANT NOZZLE		
56802	\$19.00	
(4) Round Nozzles		
57862	\$198.00	
(50) Round Nozzles		
1/2" ACID RESISTANT NOZZLE		
56803	\$19.00	
(4) Round Nozzles		
57863	\$198.00	
(50) Round Nozzles		
3/8" ACID RESISTANT NPT		
56804	\$19.00	
(4) NPT Connectors		
57864	\$198.00	
(50) NPT Connectors		
1/2" ACID RESISTANT NPT		
56805	\$19.00	
(4) NPT Connectors		
57865	\$198.00	
(50) NPT Connectors		
1¼" ACID RESISTANT FLARE NOZZLE		
56807	\$19.00	
(2) Flare Nozzles		
57867	\$198.00	
(20) Flare Nozzles		
1/2" ACID RESISTANT Y		
56808	\$19.00	
(2) Y's		
57868	\$198.00	
(20) Y's		
1/2" TO 1/4" ACID RESISTANT Y REDUCER		
56822	\$19.00	
(2) Y Reducers		
57870	\$198.00	
(20) Reducers		
1/2" TO 1/4" ACID RESISTANT REDUCER		
56821	\$19.00	
(2) Reducers		
57869	\$198.00	
(20) Reducers		
1/2" ACID RESISTANT ELBOW		
56824	\$19.00	
(2) Elbows		
57874	\$198.00	
(20) Elbows		
1/2" ACID RESISTANT T		
56825	\$19.00	
(2) T's		
57875	\$198.00	
(20) T's		
1/2" DOUBLE SOCKET		
56811	\$19.00	
(4) Double Sockets		
57872	\$198.00	
(20) Double Sockets		

TEFEN™ COUPLINGS

Tefen™ products change threaded male components to female threads. Tefen products are made in Israel.

1/8" FEMALE PIPE COUPLING		
40656	\$13.20	
(4) Female Pipe Couplings		
41756	\$51.00	
(20) Female Pipe Couplings		
1/4" FEMALE PIPE COUPLING		
40657	\$13.20	
(4) Female Pipe Couplings		
41757	\$51.00	
(20) Female Pipe Couplings		
1/2" FEMALE PIPE COUPLING		
50661	\$26.70	
(4) Female Pipe Couplings		
51761	\$91.00	
(20) Female Pipe Couplings		
1/4" PIPE PLUG		
40654	\$13.20	
(4) Pipe Plug		
41754	\$51.00	
(20) Pipe Plug		
3/8" TO 1/4" FEMALE PIPE REDUCER		
50658	\$15.00	
(4) Female Pipe Reducers		
51758	\$51.00	
(20) Female Pipe Reducers		
1/2" TO 1/4" FEMALE PIPE REDUCER		
50659	\$78.00	
(4) Female Pipe Reducers		
51759	\$91.00	
(20) Female Pipe Reducers		



SILVER STEEL

Part No	Diameter	List \$
SS1.5	1.5mm	\$6.61
SS2	2mm	\$7.12
SS2.5	2.5mm	\$7.84
SS3	3mm	\$7.73
SS3.5	3.5mm	\$13.06
SS4	4mm	\$9.26
SS4.5	4.5mm	\$17.81
SS5	5mm	\$13.06
SS5.5	5.5mm	\$16.80
SS6	6mm	\$17.81
SS6.5	6.5mm	\$25.20
SS7	7mm	\$21.96
SS7.5	7.5mm	\$32.48
SS8	8mm	\$27.07
SS9	9mm	\$34.07
SS9.5	9.5mm	\$49.82
SS10	10mm	\$42.38
SS10.5	10.5mm	\$66.01
SS11	11mm	\$52.24
SS12	12mm	\$60.08
SS12.5	12.5mm	\$83.78
SS13	13mm	\$64.11
SS14	14mm	\$74.79
SS15	15mm	\$84.65
SS16	16mm	\$85.95
SS17	17mm	\$99.01
SS18	18mm	\$111.36
SS19	19mm	\$134.15
SS20	20mm	\$134.87
SS21	21mm	\$175.24
SS22	22mm	\$1160.27
SS23	23mm	\$201.82
SS24	24mm	\$191.41
SS25	25mm	\$199.45
SS26	26mm	\$265.93
SS27	27mm	\$330.04
SS28	28mm	\$354.97

SS29	29mm	\$368.03
SS30	30mm	\$340.73
SS31	31mm	\$379.90
SS32	32mm	\$381.09
SS33	33mm	\$408.37
SS34	34mm	\$432.14
SS35	35mm	\$453.51
SS36	36mm	\$460.63
SS37	37mm	\$508.12
SS38	38mm	\$524.74
SS39	39mm	\$498.62
SS40	40mm	\$599.54
SS45	45mm	\$702.82
SS50	50mm	\$967.57



ALL METRIC & IMPERIAL SILVER STEEL ARE 1 METRE IN LENGTH, ROUND & WATER HARDENING.

Manufactured to
BS1407:1970
1" and above, plus or minus 0.0005"
below 1" plus or minus 0.0003"
Over 25mm, +0.00mm -0.02mm
25mm and below, +0.00mm -0.01mm



Size	Part No.	List \$
M3 x 0.5	CDT3M	\$18.85
M4 x 0.7	CDT4M	\$18.85
M5 x 0.8	CDT5M	\$20.25
M6 x 1.0	CDT6M	\$21.95
M8 x 1.25	CDT8M	\$27.80
M10 x 1.5	CDT10M	\$32.35



Drill & Tap in one operation using either a portable power tool or a stationary drilling machine such as a pedestal drill. Back taper beyond tap helps prevent thread damage from over drilling

1/4" hex shank ensures strong connection to the drill chuck

Designed to drill and tap through-holes up to 2X nominal diameter. Drill point must break through the part prior to threading. Applications include Electrical, Construction, Plumbing, Automotive, Cabinet Makers, Heating Ventilation & Air Conditioning installers.

ROUND - IMPERIAL

Part No	Diameter	List \$
SS1/16	1/16"	\$5.11
SS3/32	3/32"	\$6.13
SS1/8	1/8"	\$7.36
SS5/32	5/32"	\$9.26
SS3/16	3/16"	\$11.87
SS7/32	7/32"	\$15.67
SS1/4	1/4"	\$17.45
SS9/32	9/32"	\$22.56
SS5/16	5/16"	\$29.56
SS11/32	11/32"	\$56.99
SS3/8	3/8"	\$35.62
SS13/32	13/32"	\$76.22
SS7/16	7/16"	\$52.24
SS15/32	15/32"	\$87.85
SS1/2	1/2"	\$55.44
SS9/16	9/16"	\$85.24
SS19/32	19/32"	\$124.42
SS5/8	5/8"	\$90.82
SS21/32	21/32"	\$151.96
SS11/16	11/16"	\$125.84
SS3/4	3/4"	\$106.85
SS13/16	13/16"	\$198.26
SS7/8	7/8"	\$150.77
SS15/16	15/16"	\$242.19
SS1INCH	1"	\$192.33
SS1-1/8	1-1/8"	\$218.44
SS1-1/4	1-1/4"	\$287.30
SS1-3/8	1-3/8"	\$394.15
SS1-1/2	1-1/2"	\$484.38
SS1-3/4	1-3/4"	\$595.62
SS2INCH	2"	\$826.29



Manufactured in Germany

WIHA TORQUEFIX®

The TorqueFix® has one, customer provided, torque value preset by Wiha. It's the ideal tool for use in a single application which always requires the same torque to be applied. Use in oily work environments is also not a problem, e.g. for tightening inserts. Wiha TorqueFix® is available in the ranges 0.15 Nm up to 7.2Nm



WIHA TORQUEVARIO®-S

The variable tool for a variety of tasks. Also suitable for oily work places or environments. An included adjustment tool and an integrated window scale allow for the easy adjustment and reading of torque values. All together the user can choose from five models covering the ranges from 0.1Nm to 8.0Nm.



Set contains TorqueVario®-S tool with window scale
Range 1.0 - 5.0 Nm. Sturdy metal container
Torque setter, 1/4" hex Universal bit holder
1/4" hex bits PH 1, PH 2, PZ 1, PZ 2
T10, T15, T20, T25, 2.5mm hex, 3mm hex
List price \$459.20

Part number 26893



WIHA INTERCHANGEABLE BLADE SYSTEM



Series 2859

Part No	Drive	Nm. max	List \$
26199	PH 000	0.4	\$19.99
26196	PH 00	0.4	\$19.99
26197	PH 0	0.9	\$19.99
26058	PH 1	3.8	\$19.99
27079	PH 2	5.9	\$19.99
26198	PZ 0	0.9	\$19.99
26148	PZ 1	3.8	\$19.99
26889	PZ 2	5.5	\$19.99
26200	Hex 1.5	0.9	\$19.99
26060	Hex 2	1.8	\$19.99
26061	Hex 2.5	3.8	\$19.99
26062	Hex 3	8.0	\$19.99
26063	Hex 4	8.0	\$19.99
27526	Universal to hold 1/4" hex		\$55.27
26864	Torque setter		\$44.69

Series 2859

Part No	Drive	Nm. max	List \$
26158	Torx T5	0.4	\$19.99
26064	Torx T6	0.6	\$17.85
26065	Torx T7	0.9	\$19.99
26066	Torx T8	1.3	\$19.99
26059	Torx T9	2.5	\$19.99
26067	Torx T10	3.8	\$19.99
26068	Torx T15	5.5	\$19.99
26069	Torx T20	8.0	\$19.99
26070	Torx T25	8.0	\$19.99
26073	Torx Plus 15IP	5.5	\$19.99
26229	For 1/4" square nuts		\$30.24

HIGH PRECISION TORQUE CONTROL TOOLS

Series 2850 TorqueFix®

Part number	Nm	List \$
26890	0.15	\$305.76
26127	0.5	\$289.30
26047	0.6	\$292.83
26048	0.9	\$292.82
26133	1.1	\$321.05
26051	2.0	\$323.40
26128	2.5	\$335.16
26052	3.0	\$335.16
26129	3.8	\$235.16
26130	5.5	\$370.44
26131	7.2	\$370.44

Series 2852 TorqueVario®-S with window scale

Part number	Nm	List \$
26888	0.1 - 0.6	\$352.80
26461	0.4 - 1.0	\$352.80
26462	0.8 - 2.0	\$393.96
26463	1.0 - 5.0	\$402.19
26464	2.0 - 8.0	\$431.59

7049XH Series
Xeno Bits for terminal screws
Combination profile reduces slipping and
ensures greater torque transfer.
Specifically designed for use with switch
cabinet systems and fuse boxes, terminal blocks and relays.



Drive	Length	Wiha P/N	List \$
Phillips® 0	25mm	05298	\$2.53
Phillips® 1	25mm	01657	\$1.77
Phillips® 2	25mm	01658	\$1.77
Phillips® 3	25mm	01659	\$1.77
Phillips® 4	32mm	01649	\$9.88



Drive	Length	Wiha P/N	List \$
Phillips® 1	50mm	33730	\$10.00
Phillips® 2	50mm	33704	\$10.00
Phillips® 3	50mm	33705	\$10.00



Drive	Length	Wiha P/N	List \$
Phillips® 1	90mm	04126	\$18.52
Phillips® 1	152mm	22509	\$28.40
Phillips® 2	90mm	04009	\$17.64
Phillips® 2	152mm	22510	\$28.40
Phillips® 3	89mm	04127	\$18.52



List \$68.98



Description	Wiha P/N	List \$
Bit holder 2 piece magnetic 59mm overall length	01895	\$12.35
Bit Holder 2 piece magnetic 74mm overall length	01894	\$23.99



List \$33.23



Drive	Length	Wiha P/N	List \$
Phillips® 2	25mm	05076	\$3.53



Drive	Length	Wiha P/N	List \$
PoziDriv® 0	25mm	05300	\$2.53
PoziDriv® 1	25mm	01688	\$1.77
PoziDriv® 2	25mm	01689	\$1.77
PoziDriv® 3	25mm	01690	\$1.77



Drive	Length	Wiha P/N	List
PoziDriv® 1	50mm	04547	\$10.00
PoziDriv® 2	50mm	04546	\$10.00
PoziDriv® 3	50mm	04545	\$10.00



Drive	Length	Wiha P/N	List \$
PoziDriv® 1	89mm	01809	\$17.64
PoziDriv® 2	89mm	01812	\$17.64
PoziDriv® 2	152mm	23228	\$27.05
PoziDriv® 3	89mm	04176	\$17.64

TX 1	0.84	TX 20	3.84
TX 2	0.94	TX 25	4.40
TX 3	1.12	TX 27	4.96
TX 4	1.30	TX 30	5.49
TX 5	1.37	TX 40	6.60
TX 6	1.65	TX 45	7.77
TX 7	1.97	TX 50	8.79
TX 8	2.30	TX 55	11.17
TX 9	2.48	TX 60	13.20
TX 10	2.72	TX 70	15.49
TX 15	3.26		



Drive	Length	Wiha P/N	List \$
Torx® security TR 7	25mm	03115	\$7.41
Torx® security TR 8	25mm	03117	\$7.41
Torx® security TR 9	25mm	01726	\$7.41
Torx® security TR 10	25mm	01727	\$7.41
Torx® security TR 15	25mm	01728	\$7.41
Torx® security TR 20	25mm	01729	\$7.41
Torx® security TR 25	25mm	01730	\$7.41
Torx® security TR 27	25mm	01731	\$7.41
Torx® security TR30	25mm	01732	\$7.41
Torx® security TR 40	25mm	01733	\$7.41



Drive	Length	Wiha P/N	List \$
Torx® security TR 7	50mm	21045	\$15.75
Torx® security TR 8	50mm	21047	\$15.75
Torx® security TR 9	50mm	20218	\$17.64
Torx® security TR 10	50mm	20219	\$17.64
Torx® security TR 15	50mm	24867	\$17.64
Torx® security TR 20	50mm	20220	\$17.64
Torx® security TR 25	50mm	20221	\$17.64
Torx® security TR 27	50mm	20222	\$17.64
Torx® security TR 30	50mm	20223	\$17.64
Torx® security TR 40	50mm	20224	\$17.64



Drive	Length	Wiha P/N	List \$
Torx-Plus® IP 6	50mm	26000	\$20.99
Torx-Plus® IP 7	50mm	26002	\$20.99
Torx-Plus® IP 8	50zmm	23195	\$19.99
Torx-Plus® IP 9	50mm	23197	\$19.99
Torx-Plus® IP 10	50mm	23199	\$19.99
Torx-Plus® IP 15	50mm	23201	\$19.99
Torx-Plus® IP 20	50mm	23203	\$19.99
Torx-Plus® IP 25	50mm	23205	\$19.99
Torx-Plus® IP 27	50mm	23207	\$19.99
Torx-Plus® IP 30	50mm	23209	\$19.99
Torx-Plus® IP 40	50mm	23211	\$19.99



Drive	Length	Wiha P/N	List \$
Torx® TX 3	25mm	26250	\$5.43
Torx® TX 4	25mm	25097	\$5.17
Torx® TX 5	25mm	01711	\$3.24
Torx® TX 6	25mm	01712	\$3.24
Torx® TX 7	25mm	01713	\$3.24
Torx® TX 8	25mm	01714	\$3.24
Torx® TX 9	25mm	01715	\$3.24
Torx® TX 10	25mm	01716	\$3.18
Torx® TX 15	25mm	01717	\$3.18
Torx® TX 20	25mm	01718	\$3.18
Torx® TX 25	25mm	01719	\$3.18
Torx® TX 27	25mm	01720	\$3.18
Torx® TX 30	25mm	01721	\$3.18
Torx® TX 40	25mm	01722	\$3.18
Torx® TX 45	35mm	01723	\$10.58
Torx® TX 50	35mm	01724	\$10.58

Note TX 55 is Series 7025 Z with a 5/16" hex

Drive	Length	Wiha P/N	List \$
Torx® TX 5	50mm	32299	\$13.20
Torx® TX 6	50mm	32302	\$13.20
Torx® TX 7	50mm	32303	\$13.20
Torx® TX 8	50mm	32304	\$13.20
Torx® TX 9	50mm	32305	\$13.20
Torx® TX 10	50mm	32306	\$13.20
Torx® TX 10	150mm	33726	\$32.93
Torx® TX 15	50mm	32307	\$13.20
Torx® TX 15	90mm	33722	\$23.52
Torx® TX 15	150mm	33728	\$32.93
Torx® TX 20	50mm	32308	\$13.20
Torx® TX 25	50mm	32309	\$13.20
Torx® TX 25	150mm	23249	\$32.93
Torx® TX 27	50mm	33920	\$13.20
Torx® TX 27	90mm	33922	\$23.52
Torx® TX 30	50mm	33923	\$13.20
Torx® TX 30	90mm	33925	\$23.52
Torx® TX 30	150mm	33927	\$32.93
Torx® TX 40	50mm	33928	\$13.20
Torx® TX 40	90mm	33930	\$23.52
Torx® TX 40	150mm	33932	\$34.10



7010 Z Series



Drive	Length	Wiha P/N	List \$
Slotted 4.5 x 0.6	25mm	01623	\$4.12
Slotted 5.5 x 0.8	25mm	01624	\$4.12
Slotted 6.5 x 1.2	25mm	01626	\$4.12
Slotted 8.0 x 1.6	25mm	01627	\$4.12
Slotted 6.5 x 1.2	50mm	01798	\$13.83

7019 TW ZOT Series - Features optimised Torsion Zone



Drive	Length	Wiha P/N	List \$
Tri-Wing® 0	25mm	22603	\$21.17
Tri-Wing® 1	25mm	22604	\$21.17
Tri-Wing® 2	25mm	22605	\$21.17
Tri-Wing® 3	25mm	22606	\$21.17
Tri-Wing® 4	25mm	22607	\$21.17
Tri-Wing® 5	25mm	22608	\$21.17

7019 TS ZOT Series - Features optimised Torsion Zone



Drive	Length	Wiha P/N	List \$
Torq-Set 2	25mm	26249	\$21.17
Torq-Set 3	25mm	26045	\$21.17
Torq-Set 4	25mm	22591	\$21.70
Torq-Set 5	25mm	22592	\$21.70
Torq-Set 6	25mm	22593	\$21.70
Torq-Set 8	25mm	22594	\$21.70
Torq-Set 10	25mm	22595	\$21.70

7018 Z Series



Drive	Length	Wiha P/N	List \$
Square 1 (3/32)	25mm	06634	\$4.00
Square 2 (1/8)	25mm	06635	\$4.00
Square 3 (9/64)	25mm	06636	\$4.00

Square is sometimes referred to as Robinson

7019 SP Series



Drive	Length	Wiha P/N	List \$
Pin Spanner 4	25mm	27064	\$11.65
Pin Spanner 6	25mm	27065	\$11.65
Pin Spanner 8	25mm	27066	\$11.65
Pin Spanner 10	25mm	27067	\$11.65

7013 TR Series



Drive	Length	Wiha P/N	List \$
Allen Hex security 2mm	25mm	25560	\$10.11
Allen Hex security 2.5mm	25mm	25561	\$10.11
Allen Hex security 3mm	25mm	25562	\$10.11
Allen Hex security 4mm	25mm	25563	\$10.11
Allen Hex security 5mm	25mm	25564	\$10.11

7017 Z Series



Drive	Length	Wiha P/N	List \$
Ballpoint Hex 1.5mm	38mm	01734	\$17.06
Ballpoint Hex 2mm	38mm	01735	\$17.06
Ballpoint Hex 2.5mm	38mm	01736	\$17.06
Ballpoint Hex 3mm	38mm	01737	\$17.06
Ballpoint Hex 4mm	38mm	01738	\$17.06
Ballpoint Hex 5mm	38mm	01739	\$17.06
Ballpoint Hex 6mm	38mm	01740	\$17.06

7013 Z Series



Drive	Length	Wiha P/N	List \$
Allen Hex 1.5mm	25mm	04011	\$7.06
Allen Hex 2mm	25mm	01703	\$7.06
Allen Hex 2.5mm	25mm	01704	\$7.06
Allen Hex 3mm	25mm	01705	\$7.06
Allen Hex 4mm	25mm	01706	\$7.06
Allen Hex 5mm	25mm	01707	\$7.06
Allen Hex 6mm	25mm	01708	\$7.06
Allen Hex 8mm	25mm	01709	\$8.83
Allen Hex 10mm	25mm	01710	\$8.83

7043 Z Series



Drive	Length	Wiha P/N	List \$
Allen Hex 1.5mm	50mm	05301	\$13.76
Allen Hex 2mm	50mm	05302	\$13.76
Allen Hex 2.5mm	50mm	05303	\$13.76
Allen Hex 3mm	50mm	04194	\$12.47
Allen Hex 4mm	50mm	04195	\$12.47
Allen Hex 5mm	50mm	04196	\$12.47
Allen Hex 6mm	50mm	04197	\$12.47

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CUTTING FLUIDS



TAP MAGIC® WITH EP-XTRA -

The original formula minus 1.1.1 Trichloroethane. Now an ozone friendly formula that gives you outstanding performance for any cutting operation on any metal. Absolutely without equal on all hard metals and for cuts of exteme pressure or for long duration.

Part No.	Description	List EA \$
10004E	Tap Magic® EP-Xtra 4 oz (120ml) spout top plastic bottle (box qty: 24)	\$16.70
10012EL	Tap Magic® EP-Xtra 12 oz (354 gram) aerosol can (box qty: 12)	\$53.00
10016E	Tap Magic® EP-Xtra 16 oz (472 ml) spout top plastic bottle (box qty: 12)	\$49.00
10050E	Tap Magic® EP-Xtra 5 Litre plastic bottle	\$228.00
10025E	Tap Magic® EP-Xtra 25 Litre plastic container	\$1140.00

TAP MAGIC® XTRA-THICK -

The extreme performance heavyweight cutting fluid for the hardest metals up to 45 RC. Great for lathe, millwork, and deep hole cuts. Very effective on stainless steel. Contains EP-Xtra.

Part No.	Description	List EA \$
70016T	Tap Magic® EP-Xtra -Thick 16 oz (472 ml) spout top can plastic bottle (box qty: 12)	\$60.00

TAP MAGIC® ALUMINIUM -

the most effective cutting fluid you can use for any metal work on alumunium. Provides excellent performance for all cutting operations.

Part No.	Description	List EA \$
20004A	Tap Magic® Aluminium 4 oz (120ml) spout top can (box qty: 24)	\$16.70
20016A	Tap Magic® Aluminium 16 oz (472 ml) spout top can (box qty: 12)	\$49.00
20050A	Tap Magic® Aluminium 5 Litre plastic bottle	\$285.00

TAP MAGIC® MULTI PURPOSE CLEANER / DEGREASER-

The second step in any machining process is to remove any oils or debris from the tools or parts. This foaming, water-based cleaner removes fluid, grease, dirt and coolant from your tools, equipment, and parts..

Part No.	Description	List EA \$
90019CTC	Tap Magic® Net 19oz Multi Purpose Cleaner / Degreaser aerosol can (box qty: 12)	\$32.50

TAP MAGIC® CORROSION INHIBITOR -

The final step before putting your tools away or sending parts out to your customers, this inhibitor will protect anything metal around your shop, outside or in! Stops corrosion and displaces moisture in a non-sticky, non-drying formula.

Part No.	Description	List EA \$
90015CTP	Tap Magic® Net 15oz Corrosion Inhibitor aerosol can (box qty: 12)	\$48.00

TAP MAGIC® H2OX -

Tap Magic H2OX™ is formulated to provide excellent lubricity while eliminating the sticky messy film associated with heavy oil products.

Part No.	Description	List EA \$
80005WS	Tap Magic® 5 Litre Fluid Metal Semi-Synthetic H2OX plastic bottle	\$295.65
80640WS	Tap Magic® 18.9L Fluid Metal Semi-Synthetic H2OX plastic container	\$952.65



STAMPS - LETTER & NUMBER

Manufactured in Germany from bright drawn tool steel.

Hardness at the engraving : 58 - 60 HRC & the stamping end 38-46 HRC

All stamps designed to be used on steel up to 800 N/mm²

Number sets include 0 - 9, letter sets A - Z with & symbol

9 PIECE NUMBER SETS

Part Number	Character Height	Dimensions	List \$
SN01	1mm	6 x 6 x 65mm	\$30.00
SN01.5	1.5mm	6 x 6 x 65mm	\$30.00
SN02	2mm	6 x 6 x 65mm	\$30.00
SN02.5	2.5mm	6 x 6 x 65mm	\$30.00
SN03	3mm	6 x 6 x 65mm	\$30.00
SN04	4mm	7 x 7 x 65mm	\$35.30
SN05	5mm	8 x 8 x 65mm	\$36.40
SN06	6mm	9 x 9 x 75mm	\$40.66
SN07	7mm	11 x 11 x 76mm	\$49.00
SN08	8mm	11 x 11 x 76mm	\$54.57
SN10	10mm	12 x 12 x 80mm	\$67.40
SN12	12mm	14 x 14 x 80mm	\$85.60
SN15	15mm	16 x 16 x 85mm	\$149.80
SN20	20mm	24 x 15 x 100mm	\$385.80
SN25	25mm	28 x 15 x 100mm	\$498.00

27 PIECE LETTER SETS

Part Number	Character Height	Dimensions	List \$
SL01	1mm	6 x 6 x 65mm	\$83.50
SL01.5	1.5mm	6 x 6 x 65mm	\$83.50
SL02	2mm	6 x 6 x 65mm	\$83.50
SL02.5	2.5mm	6 x 6 x 65mm	\$83.50
SL03	3mm	6 x 6 x 65mm	\$83.50
SL04	4mm	7 x 7 x 65mm	\$95.20
SL05	5mm	8 x 8 x 65mm	\$103.80
SL06	6mm	9 x 9 x 75mm	\$118.80
SL07	7mm	11 x 11 x 76mm	\$141.00
SL08	8mm	11 x 11 x 76mm	\$145.60
SL10	10mm	12 x 12 x 80mm	\$187.30
SL12	12mm	14 x 14 x 80mm	\$250.40
SL15	15mm	16 x 16 x 85mm	\$406.60
SL20	20mm	24 x 15 x 100mm	\$1,182.00
SL25	25mm	28 x 15 x 100mm	\$1,495.00

STAMPS - LETTER & NUMBER - REVERSE

For use in making moulds, the stamps produce reversed impressions, or in sheet metal raising the character in the opposite side.

9 PIECE NUMBER SETS

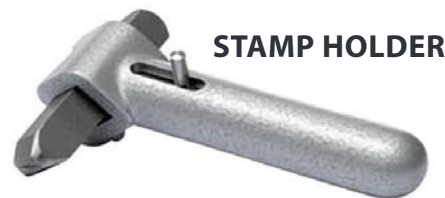
Part Number	Character Height	Dimensions	List \$
SNR02	2mm	6 x 6 x 65mm	\$48.20
SNR03	3mm	6 x 6 x 65mm	\$48.20
SNR04	4mm	7 x 7 x 65mm	\$59.90
SNR05	5mm	8 x 8 x 65mm	\$64.20
SNR06	6mm	9 x 9 x 75mm	\$69.60
SNR08	8mm	11 x 11 x 76mm	\$85.60
SNR10	10mm	12 x 12 x 80mm	\$107.00
SNR12	12mm	14 x 14 x 80mm	\$139.10

Individual letter and number stamps are available on request.

All stamps are UPPER CASE, lower case are available on special buy-in from Germany

27 PIECE LETTER SETS

Part Number	Character Height	Dimensions	List \$
SLR02	2mm	6 x 6 x 65mm	\$137.00
SLR03	3mm	6 x 6 x 65mm	\$137.00
SLR04	4mm	7 x 7 x 65mm	\$141.20
SLR05	5mm	8 x 8 x 65mm	\$173.30
SLR06	6mm	9 x 9 x 75mm	\$193.00
SLR08	8mm	11 x 11 x 76mm	\$257.00
SLR10	10mm	12 x 12 x 80mm	\$321.00
SLR12	12mm	14 x 14 x 80mm	\$387.00



STAMP HOLDER

Allows a safe distance between the stamping head and your hand Quick-Change device with spring lock.

Will hold stamps with a maximum cross section of 20 x 20mm.

Part Number	List \$
HHS	\$240.75

STAMPS - LETTER & NUMBER - EXTRA EXTRA

For use on high tensile and hard materials

9 PIECE NUMBER SETS

Part Number	Character Height	Dimensions	List \$
SNH02	2mm	7 x 7 x 75mm	\$72.80
SNH03	3mm	8 x 8 x 75mm	\$77.00
SNH04	4mm	9 x 9 x 80mm	\$89.50
SNH05	5mm	10 x 10 x 80mm	\$102.70
SNH06	6mm	12 x 12 x 85mm	\$109.10
SNH08	8mm	14 x 14 x 90mm	\$144.50
SNH10	10mm	16 x 16 x 90mm	\$179.80
SNH12	12mm	18 x 18 x 100mm	\$226.80
SNH15	15mm	18 x 18 x 100mm	\$230.00

STAMPS - LETTER & NUMBER - LOW STRESS

Low stress engraving, silky dulled design, for marking gas pipes, weld seams, high pressure pipes, turbines etc

9 PIECE NUMBER SETS

Part Number	Character Height	Dimensions	List \$
SNLS03	3mm	6 x 6 x 65mm	\$93.10
SNLS04	4mm	7 x 7 x 65mm	\$98.44
SNLS05	5mm	8 x 8 x 65mm	\$107.00
SNLS06	6mm	9 x 9 x 75mm	\$133.75
SNLS08	8mm	11 x 11 x 76mm	\$173.40
SNLS10	10mm	12 x 12 x 80mm	\$219.40

STAMPS - LETTER & NUMBER - DOT LOW STRESS

For use on low impact, low stress dot style engraving, silky dulled design

9 PIECE NUMBER SETS

Part Number	Character Height	Dimensions	List \$
SND02	2mm	7 x 7 x 75mm	\$85.60
SND03	3mm	8 x 8 x 85mm	\$93.10
SND04	4mm	9 x 9 x 78mm	\$98.44
SND05	5mm	10 x 10 x 78mm	\$107.00
SND06	6mm	12 x 12 x 84mm	\$133.80
SND08	8mm	16 x 16 x 90mm	\$174.10
SND10	10mm	16 x 16 x 90mm	\$219.40
SND12	12mm	16 x 16 x 90mm	\$428.00

27 PIECE LETTER SETS

Part Number	Character Height	Dimensions	List \$
SLD02	2mm	7 x 7 x 75mm	\$267.50
SLD03	3mm	8 x 8 x 85mm	\$283.60
SLD04	4mm	9 x 9 x 78mm	\$294.30
SLD05	5mm	10 x 10 x 78mm	\$315.70
SLD06	6mm	12 x 12 x 84mm	\$406.60
SLD08	8mm	16 x 16 x 90mm	\$524.30
SLD10	10mm	16 x 16 x 90mm	\$663.40
SLD12	12mm	16 x 16 x 90mm	\$1,112.80

TYPE IN FONT SETS - EURO TYPE INTERCHANGEABLE 100 PCE

All sets contain Letters A - Z, Numbers 0 - 9, / slash, comma, full stop, hyphen, spacers, holder, tweezers. All nickel plated

Part Number	Description	List \$
S100S01M	1.0mm - 1.5 x 4.0 x 19.00mm - 19pcs Per Holder	\$1,605.00
S100S1.5M	1.5mm - 1.5 x 4.0 x 19.00mm - 19pcs Per Holder	\$1,605.00
S100S02M	2.0mm - 2.0 x 4.0 x 19.00mm - 14pcs Per Holder	\$1,605.00
S100S02.5M	2.5mm - 2.5 x 6.0 x 19.00mm - 15pcs Per Holder	\$1,605.00
S100S03M	3.0mm - 3.0 x 6.0 x 19.00mm - 13pcs Per Holder	\$1,605.00
S100S04M	4.0mm - 4.0 x 8.0 x 19.00mm - 10 Pcs Per Holder	\$1,605.00
S100S05M	5mm - 5.0 x 8.0 x 19.00mm - 8 Pcs Per Holder	\$1,605.00

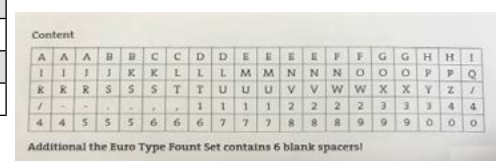
27 PIECE LETTER SETS

Part Number	Character Height	Dimensions	List \$
SLH02	2mm	7 x 7 x 75mm	\$219.35
SLH03	3mm	8 x 8 x 75mm	\$230.00
SLH04	4mm	9 x 9 x 80mm	\$245.00
SLH05	5mm	10 x 10 x 80mm	\$259.00
SLH06	6mm	12 x 12 x 85mm	\$331.70
SLH08	8mm	14 x 14 x 90mm	\$432.30
SLH10	10mm	16 x 16 x 90mm	\$540.40
SLH12	12mm	18 x 18 x 100mm	\$561.80
SLH15	15mm	18 x 18 x 100mm	\$636.70



27 PIECE LETTER SETS

Part Number	Character Height	Dimensions	List \$
SLLS03	3mm	6 x 6 x 65mm	\$283.60
SLLS04	4mm	7 x 7 x 65mm	\$294.30
SLLS05	5mm	8 x 8 x 65mm	\$315.70
SLLS06	6mm	9 x 9 x 75mm	\$406.60
SLLS08	8mm	11 x 11 x 76mm	\$524.30
SLLS10	10mm	12 x 12 x 80mm	\$663.40





ADJUSTABLE HAND REAMERS

Each reamer expands to the smallest size of the next larger size.

Reamers are used for light cut, repair work, removing stock or simply for enlarging holes.

Reamers can be hand operated with a wrench. Blades are hardened & ground.

The size can be adjusted by moving the blades in tapered slots by means of loosening one nut and tightening the other.



ADJUSTABLE HAND REAMERS - SETS

Part No.	Description	List \$
READSET8A-5A	Set of 4. 8/A to 5/A	\$124.81
READSET4A-M	Set of 16. 4A to M	\$1,057.41

Part No.	Metric Size	Inch Size	No. Blades	List \$
READ8A	6.35 - 7.14	1/4 - 9/32	4	\$53.41
READ7A	7.14 - 7.94	9/32 - 5/16	4	\$53.41
READ6A	7.94 - 8.73	5/16 - 11/32	4	\$53.41
READ5A	8.73 - 9.52	11/32 - 3/8	5	\$53.41
READ4A	9.52 - 10.32	3/8 - 13/32	6	\$53.41
READ3A	10.32 - 11.11	13/32 - 7/16	6	\$55.81
READ2A	11.11 - 11.91	7/16 - 15/32	6	\$58.21
READA	11.91 - 13.49	15/32 - 17/32	6	\$63.00
READB	13.49 - 15.08	17/32 - 19/32	6	\$67.69
READC	15.08 - 16.67	19/32 - 21/32	6	\$70.09
READD	16.67 - 18.26	21/32 - 23/32	6	\$72.49
READE	18.26 - 19.84	23/32 - 25/32	6	\$74.88
READF	19.84 - 21.43	25/32 - 27/32	6	\$77.28
READG	21.43 - 23.81	27/32 - 15/16	6	\$81.87
READH	23.81 - 26.99	15/16 - 1-1/16	6	\$84.37
READI	26.99 - 30.16	1-1/16 - 1-3/16	6	\$89.16
READJ	30.16 - 34.13	1-3/16 - 1-11/32	6	\$91.45
READK	34.13 - 38.10	1-11/32 - 1-1/2	6	\$121.86
READL	38.10 - 46.04	1-1/2 - 1-13/16	6	\$182.97
READM	46.04 - 56.36	1-13/16 - 2-7/32	6	\$224.54
READN	56.36 - 69.85	2-7/32 - 2-3/4	6	\$415.84
READO	69.85 - 84.93	2-3/4 - 3-11/32	6	\$546.53

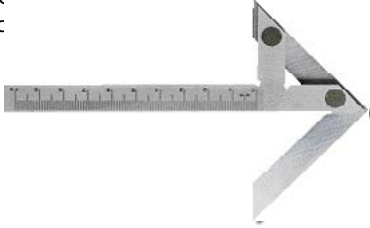


CENTERING SQUARE

For locating turning centres on all square and round material

Stainless steel

Metric



Part No.	RANGE	List \$
PCSS	100mm x 70mm	\$89.00
PCSM	150mm x 130mm	\$108.50
PCSL	200mm x 150mm	\$149.00

TOOLMAKERS PARALLEL CLAMPS

Features hardened & tempered jaws

Clamps equipped with spring screw clip

Highly useful for holding small work together, when drilling, welding, assembling, etc

End jaw is chamfered to clamp under a shoulder or in a recess



Part No.	Capacity x Jaw Size	List \$
TPC44 x 63	44mm x 63mm	\$20.17
TPC70 x 102	70mm x 102mm	\$32.05
TPC114 x 152	114mm x 152mm	\$55.81

DEPTH GAUGE WITH PROTRACTORS

Manufactured from polished stainless steel

Double graduation from 0 - 180° in opposite directions

The rectangular head model provides four convenient working edges

Narrow 6" and 150mm rule

Spring tension nut to secure the rule in the desired depth & angle



Part No.	DESCRIPTION	List \$
PRODGMERD	Round Head. 90mm x 150mm blade	\$36.40
PRODGMESQ	Rectangular 90mm x 50mm x 150mm blade	\$37.80

DEGREE PROTRACTORS

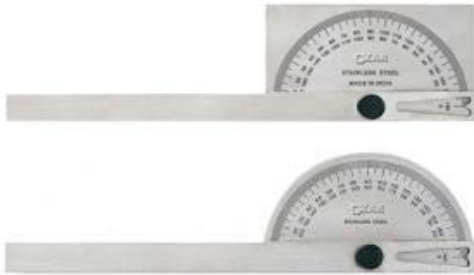
Manufactured from polished stainless steel

Double graduation from 0 - 180° in opposite directions

The rectangular head model provides four convenient working edges

Used to draw radial lines, setting bevels and transferring angles

Knurled nut for firm setting of the blade



Part No.	DESCRIPTION	List \$
PRORD	Round Head. 90mm x 150mm blade	\$34.00
PROSQ	Rectangular 90mm x 50mm x 150mm blade	\$35.00

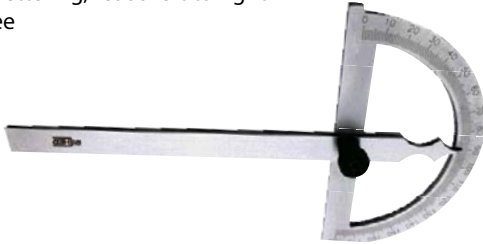
PROTRACTORS ROUND OPEN HEAD STYLE

Locking type protractor with an open head

Heavy duty, made from ground stainless steel

Easy to read lettering, reads left to right

0 - 180 degree



Part No.	DESCRIPTION	List \$
PRO	120mm Head x 150mm Rule	\$59.28
PROXL	200mm Head x 300mm Rule	\$96.62
PROXXL	300mm Head x 600mm Rule	\$197.09
PROXXXL	500mm Head x 800mm Rule	\$268.25

UNIVERSAL BEVEL PROTRACTOR

Made of stainless steel

With a magnifier for easy and clear reading

Measuring surface hardened, group and lapped ensures

smooth movement

Satin chrome finish, anti-rust and durable

With fine adjustment

Provided with 3 adjustments (150mm, 200mm, 300mm)



Part No.	Description	List \$
UBP300	Universal Bevel Protractor	\$147.00
UBPE300	Digital Universal Bevel Protractor	\$583.15

ANGULAR DEPTH GAUGE

Angular depth gauge can be used as a protractor for measuring angles 15°, 30° & 45° graduated left & right
Rule is graduated metric one side, inches the other

Part No.	SIZE	List \$
DG150	150mm & 6 inch with 15, 30 & 45 degree	\$25.85
DG200	200mm & 8 inch with 15, 30 & 45 degree	\$34.32
DG300	300mm & 12 inch with 15, 30 & 45 degree	\$44.30



ROUND SHEET METAL & WIRE GAUGE

Popular gauge for measuring steel wire, hot & cold rolled steel sheet
Made from polished stainless steel
Clear permanently etched graduations from 0 - 36

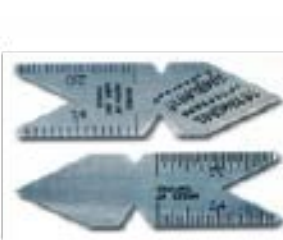
Part No.	DESCRIPTION	List \$
WGO-36	Wire Gauge 0 - 36	\$29.80



DIAL THICKNESS GAUGE

For quick and easy measurements of small parts and thicknesses.
Often used to measure thickness of paper, leather, rubber, fabric, metal plate, glass and plastic plate etc.
0.1mm Graduation

Part No.	RANGE	List \$
DTG010	0-10mm	\$87.00
DTG020	0-20mm	\$101.00



CENTRE GAUGES

Very useful gauge used in grinding and setting screw cutting toolsClearly etched scale for finding number of threads per inchthrough graduations in 14th, 20ths, 24ths, & 32nds of an inchAlso features a table of double depth of thread for determiningsize of tap drills. Made of tempered stainless steel

Part No.	Thread profiles	List \$
CGM	Metric threads 60° mm scale	\$14.28
CGUN	American threads 60° inch scale	\$14.28
CGW	BSW threads 55° scale	\$14.28



DRILL GAUGES

Hole sizes and decimal equivalent permanently etched

Part No.	Description	List \$
DGM	1 - 13mm x 0.1mm increments	\$32.34
DGIMP	1/16 - 1/2 x 1/32 increments	\$35.97
DGL	Letter Drills A - Z	\$35.97
DGN	Number Drills 60 - 80	\$35.97



UNIVERSAL SCREW CUTTING GAUGE

Used for gauging thread profiles 47.5° BA, 14.5° ACME, 60° American & Metric, 55° BSW & BSF
Stainless Steel with clearly etched graduation

Part No.	Thread profiles	List \$
UNSCG	BA - ACME - Metric - BSW - UNC - UNF	\$14.06



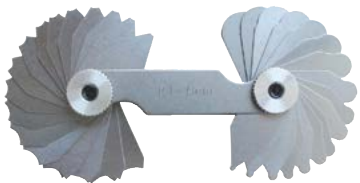
SCREW PITCH GAUGES

Useful gauges to quickly determine the pitch of various threads
All leaves are clearly marked with the size
Features a locking device at both ends to securely lock the leaves
Made of high quality polished tool steel

Part No.	Description	List \$
SPGM	Metric 24 blades 0.25 - 6mm	\$15.48
SPGME	Metric / BSW 52 blades 0.25 - 6mm & 4 - 62	\$26.20
SPGUN	UNC / UNF 60° 31 blades 4 - 42	\$18.97
SPGUNL	UNC / UNF 60° 31 blades 4 - 84	\$28.56
SPGW	BSW 55° 28 blades 4 - 62 G	\$16.68
SPGBSP	BSP 6 blades 8 - 28	\$35.64
SPGMUN	Metric / Unified 52 blades 0.25 - 6mm 4 - 62	\$33.25

RADIUS GAUGES

Handy device for checking radii of tools and dies easier & faster - measures both convex & concave radii



Part No.	Description	List \$
RG1-7	1 - 7mm 34 leaves	\$45.20
RG7.5-15	7.5 - 15mm 32 leaves	\$55.64
RG15-25	15.5 - 25mm 30 leaves	\$90.00
RG1/32-1/4	1/32 - 1/4 by 1/64 30 leaves	\$45.20
RG17/64-1/2	17/64 - 1/2 by 1/64 32 leaves	\$67.62



TAPER GAUGE

Handy gauge for measuring cylindrical bores, bearing work & gauging slots
Made from polished stainless steel
Clearly etched graduations for metric on one side and inch the other



Part No.	Description	List \$
TGME	1 - 16mm & 1/32 - 5/8 inch	\$25.62

WING COMPASS

Square leg, heavy duty, polished steel, hardened & ground point.



Part No.	Size	List \$
WC150	150mm	\$38.48
WC200	200mm	\$49.16
WC250	250mm	\$72.70
WC300	300mm	\$76.95
WC500	500mm	\$142.57
WC600	600mm	\$237.62
WC800	800mm	\$285.00

Part No.	Size	List \$
JC100	100mm	\$16.68
JC150	150mm	\$15.20
JC200	200mm	\$23.76
JC250	250mm	\$28.56
JC300	300mm	\$35.64



JENNY CALIPERS

HERMAPHRODITE CALIPER

Used in layout works for locating and testing centres. Adjustable point.

FIRM JOINT DIVIDERS

Firm joint to adjust tension as desired. Legs machined to rigid length and balance



Part No.	Size	List \$
FD150	150mm	\$22.40
FD200	200mm	\$29.00
FD300	300mm	\$41.44
FD450	450mm	\$80.64
FD600	600mm	\$146.50

Part No.	Size	List \$
FIC150	150mm	\$20.97
FIC200	200mm	\$28.03
FIC250	250mm	\$39.70
FIC300	300mm	\$39.70
FIC450	450mm	\$78.40
FIC600	600mm	\$143.00
FIC900	900mm	\$286.00



FIRM JOINT INSIDE CALIPERS

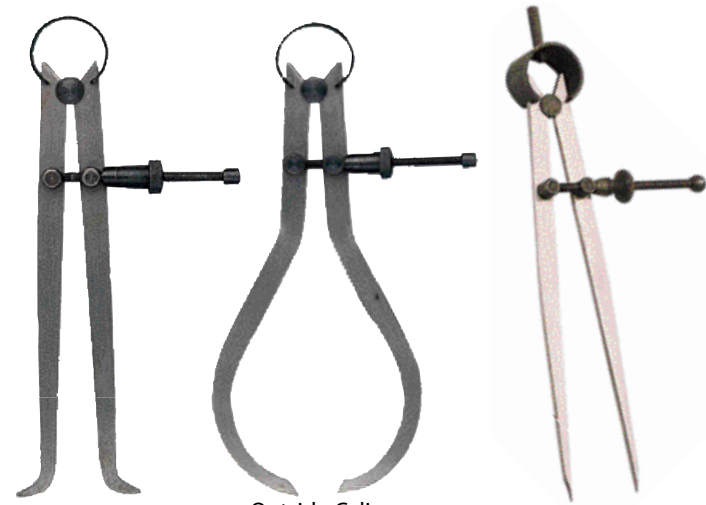
Firm joint to adjust tension as desired. Legs machined to rigid length and balance

FIRM JOINT OUTSIDE CALIPERS

Firm joint to adjust tension as desired. Legs machined to rigid length and balance



Part No.	Size	List \$
FOC150	150mm	\$20.97
FOC200	200mm	\$28.03
FOC250	250mm	\$39.70
FOC300	300mm	\$39.70
FOC450	450mm	\$76.93
FOC600	600mm	\$142.20
FOC900	900mm	\$285.00
FOC1050	1050mm	\$264.00



Inside Calipers

Outside Calipers

Spring Dividers
Solid Nut & Washer



SPRING DIVIDERS

Flat leg, heat treated points, polished steel
solid nut & washer, hardened & tempered spring

Part No.	Size	List \$
SD075	75mm	\$11.88
SD100	100mm	\$12.80
SD150	150mm	\$14.95
SD200	200mm	\$20.90
SD250	250mm	\$26.80
SD300	300mm	\$34.00
SD450	450mm	\$76.00
SD600	600mm	\$123.00
SD900	900mm	\$194.00

INSIDE CALIPERS

Flat leg, heat treated points, polished steel
solid nut & washer, hardened & tempered spring

Part No.	Size	List \$
IC075	75mm	\$12.10
IC100	100mm	\$13.08
IC150	150mm	\$15.20
IC200	200mm	\$21.36
IC250	250mm	\$27.36
IC300	300mm	\$34.44
IC450	450mm	\$77.28
IC600	600mm	\$124.81
IC900	900mm	\$196.09

OUTSIDE CALIPERS

Flat leg, heat treated points, polished steel
solid nut & washer, hardened & tempered spring

Part No.	Size	List \$
OC075	75mm	\$12.10
OC100	100mm	\$13.08
OC150	150mm	\$15.30
OC200	200mm	\$20.60
OC250	250mm	\$27.00
OC300	300mm	\$34.00
OC450	450mm	\$78.00
OC600	600mm	\$125.00
OC900	900mm	\$198.00

ENGINEERS PRECISION SQUARES

INTERNAL & EXTERNAL SQUARENESS TO DIN 875 OR BS939

GRADE B

Made of the finest quality ground steel
Blade is hardened & ground for straightness and parallelism
For setting up and checking jobs where extreme accuracy is required

Part No.	Blade x Stock Length	List \$
ESQ025	25mm x 38mm	\$22.50
ESQ050	50mm x 50mm	\$22.50
ESQ075	75mm x 63mm	\$23.60
ESQ100	100mm x 75mm	\$25.80
ESQ150	150mm x 100mm	\$32.40
ESQ200	200mm x 127mm	\$47.00
ESQ225	225mm x 150mm	\$67.40
ESQ250	250mm x 150mm	\$80.90
ESQ300	300mm x 200mm	\$92.00
ESQ450	450mm x 254mm	\$439.00
ESQ600	600mm x 330mm	\$749.00
ESQ915	915mm x 445mm	\$1490.00



LARGE SCREEN READOUT
15MM CHARACTER HEIGHT



DIGITAL CALIPERS IP54 SPLASH PROOF

Advanced Design
IP54 Protection against water, dust, oil or any other liquid
Hardened, ground and lapped measuring surfaces
Zero setting at any position, plus data hold

Strictly made in accordance with DIN862
Silky Smooth Movement throughout
Millimetres, Decimal, & Fraction

Part No.	Old Part No	Description	Range	Reading	List \$
CE150LS54	111-101FR	Digital Caliper IP54 Splashproof Large Screen Triple Read Scale	150mm / 6"	0.01mm / 0.0005"	\$109.00
CE200LS54	111-102FR	Digital Caliper IP54 Splashproof Large Screen Triple Read Scale	200mm / 8"	0.01mm / 0.0005"	\$137.00
CE300LS54	111-103FR	Digital Caliper IP54 Splashproof Large Screen Triple Read Scale	300mm / 12"	0.01mm / 0.0005"	\$230.00

DIGITAL CALIPERS IP67 COOLANT PROOF

Advanced Design

Strictly made in accordance with DIN862
IP67 Protection against
water, dust, oil or any other



15MM CHARACTER HEIGHT

Part No.	Description	Range	Reading	List \$
CE150CP67	Digital Caliper IP67 Coolant Proof Large Screen	150mm / 6"	0.01mm / 0.0005"	\$210.00
CE200CP67	Digital Caliper IP67 Coolant Proo Large Screen	200mm / 8"	0.01mm / 0.0005"	\$325.00
CE300CP67	Digital Caliper IP67 Coolant Proof Large Screen	300mm / 12"	0.01mm / 0.0005"	\$340.00

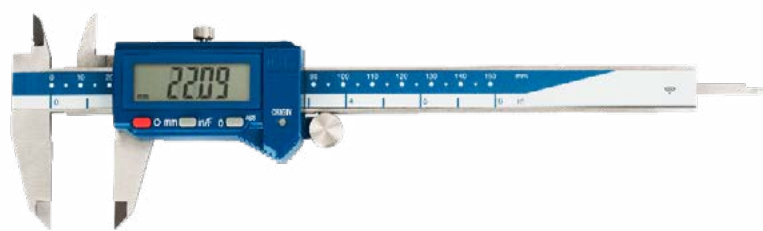
LARGE SCREEN DIGITAL CALIPERS

With long jaws
Strictly made in accordance with DIN862
With fine adjustment
With hold function
Hardened stainless steel construction for long life
Metric / inch fraction conversion



LARGE SCREEN READOUT
15MM CHARACTER HEIGHT

CE300LJ	Digital Caliper large LCD readout 90mm jaws	300mm / 12"	0.01mm / 0.0005"	\$290.00
CE500	Digital Caliper large LCD readout 100mm jaws	500mm / 20"	0.01mm / 0.0005"	\$520.00
CE600	Digital Caliper large LCD readout 100mm jaws	600mm / 24"	0.01mm / 0.0005"	\$550.00
CE1000	Digital Caliper large LCD readout 200mm jaws	1m / 40 inch	0.01mm / 0.0005"	\$1,150.00



VERNIER CALIPERS WITH WIRELESS CONNECTIVITY

Advanced Design

Strictly made in accordance with DIN862

Silky Smooth Movement throughout

Wireless capability built in

IP54 Protection against water, dust, oil or any other liquid

Hardened, ground and lapped measuring surfaces

Larger sizes available on request

Part No.	Description	Range	Reading	List \$
CE150BT54	Digital Caliper Wireless IP54 Triple Read Scale	150mm / 6"	0.01mm / 0.0005"	\$205.00

POLYAMIDE VERNIER CALIPERS

SCALE: 5 Digit display with 7.5mm numeral height for easy readings.

MATERIAL: Made from Non-Metallic high tech material with 50% fibre glass content.

READING: 0.01mm as well as 0.0005 inch

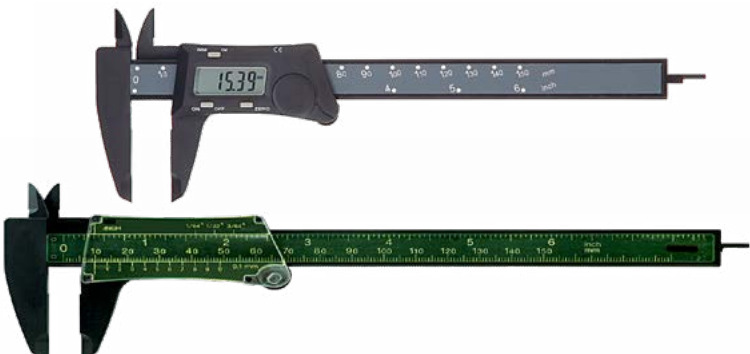
STANDARD: CE Compliant

APPLICATION: For outside, inside and depth measurements

Additional Information:

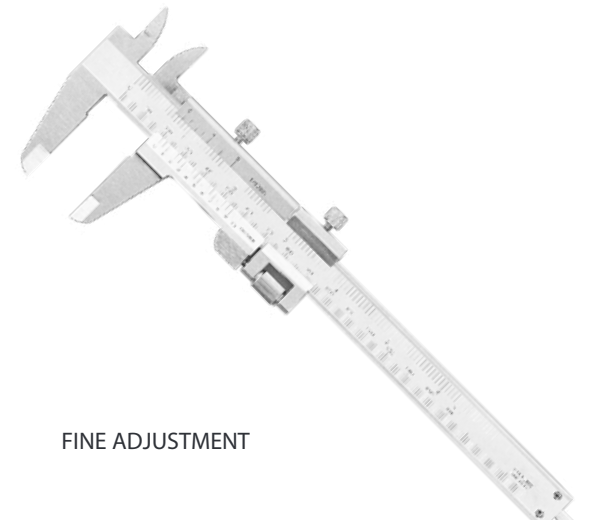
- Switches off automatically after 5 minutes of non-use.

- Zero setting possible in every position for quick comparison measurements.



Part No.	Description	Range	Reading	List \$
CEP150ME	Digital Caliper Polyamide 150mm CE Compliant	150mm / 6"	0.01mm / 0.0005"	\$68.80
CVP150ME	Vernier Caliper Polyamide 150mm CE Compliant	150mm / 6"	0.1mm / 0.015"	\$99.68

VERNIER CALIPERS



Part No.	Description	Range	Reading	List \$
CV150ME	Vernier Caliper with locking screw	150mm / 6"	0.02mm / 0.001"	\$47.00
CV150MEFA	Vernier Caliper with fine adjustment stainless steel	150mm / 6"	0.02mm / 0.001"	\$67.00
CV200MEFA	Vernier Caliper with fine adjustment	200mm / 8"	0.02mm / 0.001"	\$117.00
CV300MEFA	Vernier Caliper with fine adjustment	300mm / 12"	0.02mm / 0.001"	\$219.00
CV600MEFA	Vernier Caliper fine adjustment 90mm jaws	600mm / 24"	0.02mm / 0.001"	\$560.00
CV1MMEFA	Vernier Caliper fine adjustment 125mm jaws	1m / 40"	0.02mm / 0.001"	\$1295.00
CV1.5MEFA	Vernier Caliper fine adjustment 125mm jaws	1.5m / 60"	0.02mm / 0.001"	\$1,995.00
CV2MEFA	Vernier Caliper fine adjustment 200mm jaws	2m / 80"	0.02mm / 0.001"	\$3,450.00

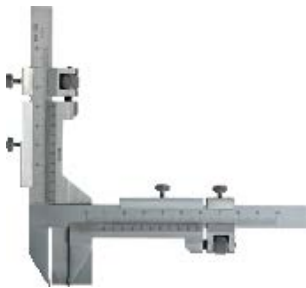
GEAR TOOTH VERNIER CALIPERS

Verticle scale measures the depth of the teeth from the top of the pitch line

Horizontal scale is used to measure the Chordal Thickness of the gear tooth

The gear does not have to be removed from the machine

Range 1 - 26 Graduations 0.02mm Accuracy ± 0.02mm



Part No.	List \$
CVGT	\$148.00

DIAL CALIPERS



Part No.	Description	Range	Reading	List \$
CDL150	Dial Caliper	150mm	0.02mm	\$109.00
CDL200	Dial Caliper	200mm	0.02mm	\$137.00
CDL300	Dial Caliper	300mm	0.02mm	\$212.00
CDL6	Dial Caliper	6 inch	0.001"	\$127.00

PRECISION MACHINE LEVELS

Used to measure straightness and parallelism of the guideways of various kinds of machine tools and other equipment, and to inspect the horizontal or perpendicular position after the installation of equipment.

Part No.	Size	Accuracy	List \$
PL100x0.02	100mm	0.02mm	\$320.79
PL150x0.02	150mm	0.02mm	\$285.80
PL200x0.02	200mm	0.02mm	\$219.35
PL200x0.05	200mm	0.05mm	\$203.30
PL250x0.02	250mm	0.02mm	\$355.78
PL300x0.02	300mm	0.02mm	\$416.34



PRECISION FRAME LEVELS

Mainly used to inspect guide way straightness of various kinds of machine tools and other equipment, and to inspect the horizontal or perpendicular position after the installation of equipment. The measuring surfaces are "V" shaped so that the levels can be used on cylinders.

Part No.	Size	Accuracy	List \$
PLSQ150x0.05	150mm	0.05mm	\$272.85
PLSQ200x0.02	200mm	0.02mm	\$331.70
PLSQ200x0.05	200mm	0.05mm	\$315.65



GAUGE BLOCK SETS **NEW**

Part No.	Description	List \$
GBM103-0	GRADE 0 - 103 Pce metric set	\$2152.00
GBM103-1	GRADE 1 - 103 Pce metric set	\$1347.00
GBM112-0	GRADE 0 - 112 Pce metric set	\$2679.00
GBM112-1	GRADE 1 - 112 Pce metric set	\$1669.00
GBM32-0	GRADE 0 - 32 Pce metric set	\$789.00
GBM32-1	GRADE 1 - 32 Pce metric set	\$497.00
GBM47-0	GRADE 0 - 47 Pce metric set	\$1135.00
GBM47-1	GRADE 1 - 47 Pce metric set	\$710.00
GBM87-0	GRADE 0 - 87 Pce metric set	\$1795.00
GBM87-1	GRADE 1 - 87 Pce metric set	\$1154.00



THREAD PLUG GAUGES

- A thread limit plug gauge is a combination of go plug gauge and no-go plug gauge. The scrap side of the thread plug gauge is marked with a red ring.
- The go end of the thread plug gauge must screw into the thread cut into a part by hand (without using excessive force). If unable to do so, the thread does not meet the requested standards (=scrap).
- The scrap side of the thread plug gauge must not be able to be manually turned more than two turns into the cut thread (without using excessive force). If it can be screwed in more, the thread does not meet the requested standards (=scrap).
- The reference temperature for parts and gauges is 20° Celsius. A very wide range is available on request, including Thread Ring Gauges.



7 pce set comes with
Thread Pce M3, M4, M5, M6,
M8, M10, 12

NEW

Part No.	Description	List
TPGM01420	M14 X 2.0	\$139.00
TPGM01602	M16 X 2.0	\$156.00
TPGS03012	7 PCE SET	\$845.00

THREE POINTS INSIDE MICROMETER SET

- Strictly made in accordance with DIN863
- Carbide measuring faces
- Satin chrome-plated scales and operating parts
- Self aligning and self centreing
- Ratchet stop to provide uniform measuring pressure for highest possible reading accuracy
- Non-removable anvils
- Includes extension ring gauge, supplied with extension



Part No.	Range (mm)	Points (mm)	Resolution (mm)	Extension (mm)	List Price \$
MICIN0612	6-12	6-8, 8-10, 10-12	0.001	50	\$1850.00
MICIN1220	12-20	12-16, 16-20	0.005	100	\$822.00
MICIN2050	20-50	20-25, 25-30, 30-40, 40-50	0.005	150	\$2285.00
MICIN50100	50-100	50-63, 62-75, 75-88, 87-100	0.005	150	\$3100.00

INSIDE MICROMETER - CALIPER TYPE

Hardened and Ground Spindle Threads and Measuring Face

Part No.	Range	Reading	List \$
MICIN5-30	5 - 30mm	0.01mm	\$144.45
MICIN25-50	25 - 50mm	0.01mm	\$157.29
MICIN50-75	50 - 75mm	0.01mm	\$179.76
MICIN75-100	75 - 100mm	0.01mm	\$197.95



INSIDE MICROMETER - EXTENSION ROD TYPE

Part No.	Range	Reading	List \$
MICIN50-250	50 - 250mm	0.01mm	\$320.00
MICIN2-6	2 - 6 inch	0.001 inch	\$292.11



DIAL BORE GAUGES

Part No.	Range	Reading	Depth	List \$
BG06-10	6 - 10mm	0.01mm	40mm	\$284.00
BG10-18	10 - 18mm	0.01mm	100mm	\$284.00
BG18-35	18 - 35mm	0.01mm	125/150	\$284.00
BG35-50	35 - 50mm	0.01mm	150mm	\$285.00
BG50-100	50 - 100mm	0.01mm	150mm	\$285.00
BG50-160	50 - 160mm	0.01mm	150mm	\$285.00
BG160-250	160 - 250mm	0.01mm	250/400	\$315.00
BG250-450	250 - 450mm	0.01mm	250mm	\$395.00



NEW

PIN GAUGE SETS

- Strictly Made in accordance with DIN2269
- Perfect for measuring hole diameter, distance between holes, hole location, slot standards of setting measuring equipment
- Made of hardened steel, heat treatment, abrasion resistant, hardness 60-63HRC, precision ground for long service life

Part No.	Range	PCE	Standard	List \$
PGC0110	0-10MM	91 PCES	DIN2269	\$530.00



OUTSIDE MICROMETERS BOXED SETS

Part No.	Description
MIC0-75	Micrometer 3 piece set
0 - 75mm range x 0.01mm List \$209.00	
MIC0-150	Micrometer 6 piece set
0 - 150mm range x 0.01mm List \$524.30	
MIC0-300	Micrometer 12 piece set
0 - 300mm range x 0.01mm List \$1,487.30	
MIC0-6	Micrometer 6 piece set
0 - 6 inch range x 0.001" List \$524.30	



NEW



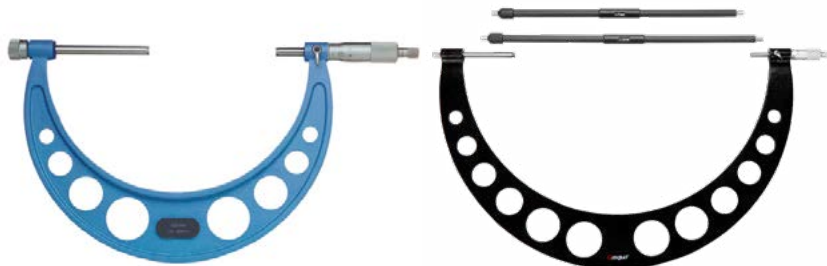
*MICD AVAILABLE UP TO 100MM
IMPERIAL SIZES AVAILABLE UPON REQUEST UP TO 4"

*MIC LISTED BELOW

OUTSIDE MICROMETERS

Part No.	Range	Reading	List \$
MIC0-25	0 - 25mm	0.01mm	\$54.80
MIC25-50	25 - 50mm	0.01mm	\$66.35
MICD025	0 - 25mm	0.01mm	\$167.99
MIC50-75	50 - 75mm	0.01mm	\$66.35
MIC75-100	75 - 100mm	0.01mm	\$77.13
MIC100-125	100 - 125mm	0.01mm	\$134.97
MIC125-150	125 - 150mm	0.01mm	\$147.45
MIC150-175	150 - 175mm	0.01mm	\$154.25
MIC175-200	175 - 200mm	0.01mm	\$178.07
MIC200-225	200 - 225mm	0.01mm	\$190.55
MIC225-250	225 - 250mm	0.01mm	\$203.02
MIC250-275	250 - 275mm	0.01mm	\$217.77
MIC275-300	275 - 300mm	0.01mm	\$232.51
MIC300-400	300 - 400mm	0.01mm	\$657.84
MIC400-500	400 - 500mm	0.01mm	\$724.75
MIC500-600	500 - 600mm	0.01mm	\$884.68
MIC600-700	600 - 700mm	0.01mm	\$924.37
MIC700-800	700 - 800mm	0.01mm	\$1,474.46
MIC800-900	800 - 900mm	0.01mm	\$1,531.17
MIC900-1000	900 - 1000mm	0.01mm	\$1,531.17
MIC0-1	0 - 1"	0.001"	\$54.80
MIC1-2	1 - 2"	0.001"	\$48.77
MIC2-3	2 - 3"	0.001"	\$66.35
MIC3-4	3 - 4"	0.001"	\$77.13
MIC4-5	4 - 5"	0.001"	\$134.97
MIC5-6	5 - 6"	0.001"	\$147.45
MIC6-7	6 - 7"	0.001"	\$154.25
MIC7-8	7 - 8"	0.001"	\$178.04
MIC8-9	8 - 9"	0.001"	\$190.55
MIC9-10	9 - 10"	0.001"	\$203.02
MIC10-11	10 - 11"	0.001"	\$216.63
MIC11-12	11 - 12"	0.001"	\$230.24

Large Micrometers contain Interchangeable Anvils



DISK BRAKE MICROMETER

Part No.	Range	Reading	List \$
MICDB	7.6 - 33mm	0.01mm	\$103.50



DEPTH MICROMETERS

Part No.	Range	Reading	List \$
MICD1	0 - 1 inch	0.001"	\$180.83
MICD6	0 - 6 inch	0.001"	\$309.23
MICD25	0 - 25mm	0.01mm	\$180.83
MICD100	0 - 100mm	0.01mm	\$197.95



ELECTRONIC DIGITAL OUTSIDE MICROMETERS

- Large display
- Power On / Off.
- Data Hold & ABS.
- Metric reading 0.001mm and Inch reading 0.00005"
- Carbide Tipped Anvils
- Hardened & Ground Measuring Spindle
- Ratchet stop handle

Part No.	Range	List \$
MICE0-25	0 - 25mm & 0 - 1 inch	\$148.73
MICE25-50	25 - 50mm & 1 - 2 inch	\$162.00
MICE50-75	50 - 75mm & 2 - 3 inch	\$224.70
MICE75-100	75 - 100mm & 3 - 4 inch	\$262.15
MICE100-125	100 - 125mm & 4 - 5 inch	\$326.35
MICE125-150	125 - 150mm & 5 - 6 inch	\$390.55
MICE150-175	150 - 175mm & 6 - 7 inch	\$459.03
MICE175-200	175 - 200mm & 7 - 8 inch	\$481.00

IP65 WATER PROOF ELECTRONIC DIGITAL OUTSIDE MICROMETERS

- Large display
- Power On / Off.
- Data Hold & ABS.
- Metric reading 0.001mm and Inch reading 0.00005"
- Carbide Tipped Anvils
- Hardened & Ground Measuring Spindle

Part No.	Range	List \$
MICE0025IP65	0 - 25mm & 0 - 1 inch	\$245.00
MICE2550IP65	25 - 50mm & 1 - 2 inch	\$329.00
MICE5075IP65	50 - 75mm & 2 - 3 inch	\$325.00
MICE75100IP65	75 - 100mm & 3 - 4 inch	\$365.00



ELECTRONIC DIGITAL OUTSIDE MICROMETER WITH WIRELESS CONNECTIVITY

- Wireless capability built in
- Quick Measuring Function
- Large display
- Power On / Off.
- Data Hold & ABS.
- Metric reading 0.001mm and Inch reading 0.00005"
- Carbide Tipped Anvils
- Hardened & Ground Measuring Spindle
- Ratchet stop handle

Larger sizes can be ordered on request

Part No.	Range	List \$
MICE0025BT65	0 - 25mm & 0 - 1 inch	\$490.00



VERNIER HEIGHT GAUGES

- Fine adjustment
- Magnifying glass for quick and easy reading

Part No.	Description	Range	Reading	List \$
HGV300FAM	Vernier Height Gauge	300mm	0.02mm	\$319.93
HGV500FAM	Vernier Height Gauge	500mm	0.02mm	\$460.10



DIGITAL HEIGHT GAUGES

Part No.	Description	Range	Reading	List \$
HGE300ME	Digital Height Gauge	300mm/12"	0.01mm/0.0005"	\$492.20
HGE500ME	Digital Height Gauge	500mm/20"	0.01mm/0.0005"	\$684.80
HGE1000ME	Digital Height Gauge	1000mm/40"	0.01mm/0.0005"	\$1,380.30

VERNIER DEPTH GAUGES

Part No.	Description	Range	Reading	List \$
DGV250	Vernier Depth Gauge	250mm	0.05mm	\$81.00
DGV300	Vernier Depth Gauge	300mm	0.02mm	\$109.78
DGV500	Vernier Depth Gauge	500mm	0.02mm	\$180.83

DIGITAL DEPTH GAUGES

Part No.	Description	Range	Reading	List \$
DGE150	Digital Depth Gauge	150mm	0.01mm / 0.0005"	\$148.73
DGE300	Digital Depth Gauge	300mm	0.01mm / 0.0005"	\$209.72.
DGE500	Digital Depth Gauge	500mm	0.01mm / 0.0005"	\$449.40



NEW

HYDRAULIC MAGNETIC BASE

Part No.	Holding Power	Base	Bottom Arm	Top Arm	Dia. Of Clam Hole	List \$
MBH7412	80kg	60 x 50 x 55	120mm	116mm	6.0 x 8.0 x dovetail	\$298.00

- Mechanical central locking of all joints
- Special structure ensures high pressure
- Oil hydraulics protected against oil leakage by double seals
- Powerful permanent magnet- Smooth and easy on/off switch
- Joined arms rotate 360 degrees on the dial indicator holder and can be twisted 180 degrees



NEW

MINI MAGNETIC HOLDER

Part No.	Holding Power	Base	Dia. Of Clam Hole	List \$
MBD0005	20kg	73 x 37 x 12	8.0	\$105.00
MBD0010	20kg	73 x 37 x 26	8.0	\$71.00

- Smaller shape ensures easy and fast fixing to the machine and vices
- light metal with laminated permanent magnets
- Low height enables fast, safe and wasy mount on machines and jigs
- Black enamel finish





Long
Measuring
Range



UNIVERSAL SURFACE MARKING GAUGE

Basic tool for machinists and toolmakers for accurately scribing lines, transferring measurements and probing during inspection work.

Base 82 x 63 x 25mm
Spindle diameter 9.5mm



Part No.	Size	List \$
USG300	300mm spindle	\$154.45

TELESCOPIC GAUGES

For quick inside measurement & determination of inside diameters
Spring loaded plunger that expands in the bore or groove

Part No.	Range	List \$
TGSET8-150	8mm through 152mm	\$69.98
TGSET300LR	8mm through 152mm with 300mm Long Reach	\$125.19



DIAL INDICATORS

Part No.	RANGE	Reading	Diameter	List \$
DIM10	0 - 10mm	0.01mm	58mm	\$76.00
DIM30	0 - 30mm	0.01mm	58mm	\$157.29
DIM50	0 - 50mm	0.01mm	58mm	\$224.79
DIM80	0 - 80mm	0.01mm	58mm	\$460.10
DIM100	0 - 100mm	0.01mm	58mm	\$615.25
DII1/2	0 - 1/2	0.001"	58mm	\$60.00
DII1	0 - 1"	0.001"	58mm	\$78.00
DII2	0 - 2"	0.001"	58mm	\$105.00

DIAL TEST INDICATORS

Part No.	RANGE	Reading	Diameter	List \$
TIM008	0 - 0.8mm	0.01mm	30mm	\$134.18
TIM0.4	0 - 0.2mm	0.002mm	30mm	\$250.81
TII	0 - 0.03 inch	0.0005"	30mm	\$145.84

DIGITAL INDICATORS

Part No.	RANGE	Reading	List \$
DIE13	12.7mm - 1/2"	0.01mm - 0.0005"	\$200.09
DIE13x0.001	12.7mm - 1/2"	0.001mm - 0.00005"	\$383.06

DIGITAL INDICATORS WITH WIRELESS CONNECTIVITY

Larger sizes can be ordered on request



Part No.	RANGE	Reading	List \$
DIE127BT	12.7mm - 1/2"	0.01mm - 0.0005"	\$328.49

SLIDING T-BEVEL

Stainless Steel blade with aluminium handle

Adjustable gauge for setting & transferring angles. The blade pivots and can be locked at any angle by loosening or tightening the thumbscrew.

Can be used to duplicate an existing angle or set to a desired angle.



Part No.	Size	List \$
STB250SS	250mm blade	\$59.40



POT MAGNETS

General purpose magnet - magnetic fasteners, displays, holding maps etc

Supplied with plated keepers

Part No.	Size	Approximate Pull	List \$
MPA16X17	16 x 17mm	2.65 Kg	\$12.05
MPB19X22	19 x 22mm	4.00 Kg	\$15.07
MPC25X27	25 x 27mm	5.00 Kg	\$20.90
MPD30X35	30 x 35mm	10.5 Kg	\$28.60

MAGNIFYING GLASS - EYE LOUPE

Lens made of clear ground & polished glass

Body made from black polished plastic

Hands free magnification



Part No.	Magnification	Focal Length	List \$
MG10	10 X	25mm	\$25.00

ADHESIVE BACKED MEASURING TAPES

Use as a customized measure for workbenches, saw tables, machinery, desks countertops, poles, walls, columns etc

Can be cut to desired length



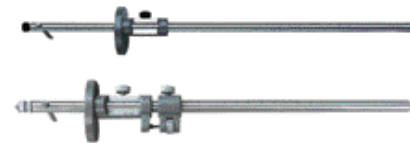
Part No.	Description	List \$
ABT2M	2 metre reads left to right	\$38.05
ABT5M	5 metre reads left to right	\$61.00
ABT1MRL	1 metre reads right to left	\$28.10
ABT2MRL	2 metre reads right to left	\$42.95
ABT5MRL	5 metre reads right to left	\$76.20

MARKING GAUGE ROUND TYPE

Vernier Scale

Thumb screw for easy adjustment

FAME model features Fine Adjustment



Part No.	Range	Reading	Fine Adjustment	List \$
MG200	200mm	0.1mm	Yes	\$98.00
MG300	300mm	0.1mm	No	\$127.30
MG500	500mm	0.1mm	Yes	\$209.72
MG300S	Replacement Scriber		-	\$29.21
MG300SCREW	Replacement Screw		-	\$11.77



TRAMMELS

Trammels & Trammel Heads

Used to draw circles and measure sizeable distances with the accuracy of a divider. Also for layout, marking templates. Needle point legs and one trammel can hold a pencil.

Part No.	Description	List \$
TRHEADS	Trammel Head Set 2 PCE	\$42.73
TR500	Trammel Set with Fine Adj up to 500mm	\$125.35

FEELER STRIP

METRIC 12.7 x 300mm Long

IMPERIAL 1/2 x 12 Inch Long

Part No.	Thickness	Price \$		Part No.	Thickness	List \$
FSM0.03	0.03mm	\$8.70		FSM1.70	1.70mm	\$10.90
FSM0.04	0.04mm	\$8.70		FSM1.80	1.80mm	\$10.90
FSM0.05	0.05 mm	\$8.70		FSM1.90	1.90mm	\$10.90
FSM0.06	0.06 mm	\$8.70		FSM2.00	2.00mm	\$10.90
FSM0.07	0.07 mm	\$8.70		FSI0.001	0.001 inch	\$8.70
FSM0.08	0.08 mm	\$8.70		FSI0.0015	0.0015 inch	\$8.70
FSM0.09	0.09 mm	\$8.70		FSI0.002	0.002 inch	\$8.70
FSM0.10	0.10mm	\$8.70		FSI0.0025	0.0025 inch	\$8.70
FSM0.11	0.11mm	\$9.60		FSI0.003	0.003 inch	\$8.70
FSM0.12	0.12mm	\$9.60		FSI0.004	0.004 inch	\$8.70
FSM0.13	0.13mm	\$9.60		FSI0.005	0.005 inch	\$8.70
FSM0.14	0.14mm	\$9.60		FSI0.006	0.006 inch	\$8.70
FSM0.15	0.15mm	\$9.60		FSI0.007	0.007 inch	\$8.70
FSM0.16	0.16mm	\$9.60		FSI0.008	0.008 inch	\$8.70
FSM0.17	0.17mm	\$9.60		FSI0.009	0.009 inch	\$8.70
FSM0.18	0.18mm	\$9.60		FSI0.010	0.010 inch	\$9.60
FSM0.19	0.19mm	\$9.60		FSI0.011	0.011 inch	\$9.60
FSM0.20	0.20mm	\$9.60		FSI0.012	0.012 inch	\$9.60
FSM0.25	0.25mm	\$9.60		FSI0.013	0.013 inch	\$9.60
FSM0.30	0.30mm	\$10.80		FSI0.014	0.014 inch	\$9.60
FSM0.35	0.35mm	\$10.80		FSI0.015	0.015 inch	\$9.60
FSM0.40	0.40mm	\$10.80		FSI0.016	0.016 inch	\$9.60
FSM0.45	0.45mm	\$10.80		FSI0.017	0.017 inch	\$9.60
FSM0.50	0.50mm	\$10.80		FSI0.018	0.018 inch	\$9.60
FSM0.55	0.55mm	\$10.80		FSI0.019	0.019 inch	\$9.60
FSM0.60	0.60mm	\$10.80		FSI0.020	0.020 inch	\$9.60
FSM0.65	0.65mm	\$10.80		FSI0.021	0.021 inch	\$10.80
FSM0.70	0.70mm	\$10.80		FSI0.022	0.022 inch	\$10.80
FSM0.75	0.75mm	\$10.80		FSI0.023	0.023 inch	\$10.80
FSM0.80	0.80mm	\$10.80		FSI0.024	0.024 inch	\$10.80
FSM0.85	0.85mm	\$10.80		FSI0.025	0.025 inch	\$10.80
FSM0.90	0.90mm	\$10.80		FSI0.026	0.026 inch	\$12.00
FSM0.95	0.95mm	\$10.80		FSI0.027	0.027 inch	\$12.00
FSM1.00	1.00mm	\$12.00		FSI0.028	0.028 inch	\$12.00
FSM1.10	1.10mm	\$12.00		FSI0.029	0.029 inch	\$12.00
FSM1.20	1.20mm	\$12.00		FSI0.030	0.030 inch	\$12.00
FSM1.30	1.30mm	\$12.00		FSI0.032	0.032 inch	\$12.00
FSM1.40	1.40mm	\$12.00		FSI0.035	0.035 inch	\$12.00
FSM1.50	1.50mm	\$12.00		FSI0.040	0.040 inch	\$12.00
FSM1.60	1.60mm	\$12.00				



ENGINEERS SCRIBERS

Part No.	Description	List \$
SC190	L Shaped. Double Ended. Knurled Body. 190mm length	\$8.13
SC225	L Shaped. Double Ended. Knurled Body. 225mm length	\$10.49
SCTCT	Fixed Carbide Tip. Chrome Plated Handle. Pocket Clip. 150mm length	\$15.19
SCTCWRT	Replaceable Carbide Tip. Magnetic End. Knurled Body. Pocket Clip. 150mm lngth	\$23.33
SCTCWRTTIP	- Replacement Carbide Tip for SCTCWRT	\$5.78
SCMACH	Single Replaceable Point. Knurled Body. 125mm length	\$11.66
SCCH	Regular Point & Chisel Point Knurled Body. 165mm length	\$11.66



SETS

FSSETMM300MM	\$62.40
20 piece 0.05 - 1mm	
300mm length	
FSSETMM150MM	\$57.80
20 piece 0.05 - 1mm in 0.05 increments	
150mm length	
FSSETMM100MM	\$23.00
10 piece 0.05 - 80mm	
100mm length	
100mm length	



PARTING TOOL HOLDERS HSS - STRAIGHT

- Heat treated hardened body
- Machined to precise tolerances
- Support the blade over a wide area, reducing blade breakage
- Supplied with one wrench

Part No.	Blade Size	Shank Size	List \$
LPTH5/16	5/16"	8 x 14 x 90mm	\$51.84
LPTH1/2	1/2"	8 x 19 x 114mm	\$49.46
LPTH5/8	5/8"	9.5 X 22 X 127mm	\$61.24
LPTH3/4	3/4"	13 x 28 x 152mm	\$70.63
LPTH7/8	7/8"	16 x 35 x 178mm	\$94.18
LPTH1	1 inch	19 x 41 x 203mm	\$122.47



Blades sold separately



Blades sold separately

PARTING TOOL HOLDERS CLAMP TYPE

- Tool blocks with rigid construction for 100% clamping power
- Hardened and tempered body
- Can be used on front or rear tool posts

Part No.	Shank Size	Body Size	Blade Size	Price \$
COTB1/2	1/2"	55 x 30.5 x 28mm	3/4"	\$112.92
COTB5/8	5/8"	90 x 38 x 32mm	1 inch	\$112.92
COTB3/4	3/4"	90 x 38 x 36mm	1 inch	\$112.92

LATHE PARTING TOOL BLADES

Part No.	Material	Blade Size	List \$
LPT5/16	HSS M-2	5/16 x 1/16 x 3-1/2	\$35.32
LPT1/2	HSS M-2	1/2 x 3/32 x 4	\$38.88
LPT5/8	HSS M-2	5/8 x 3/32 x 5	\$41.20
LPT3/4	HSS M-2	3/4 x 1/8 x 6	\$58.86
LPT7/8	HSS M-2	7/8 x 1/8 x 6	\$91.80
LPT1	HSS M-2	1 x 3/16 x 6	\$124.74



- Available in HSS M-2 & 5% Cobalt
- Fit most common tool holders
- Hardened & Ground
- Trapezoidal section to fit standard tool holders

FLY CUTTER HOLDERS

- Counterbalanced to get smoother finishes
- Machines up to 150mm wide surface with standard tool bit

- Round shank 1/2" & 3/4"

Part No.	Bit Size	Head Diameter	Shank	List \$
FC3/16	3/16"	19mm - 3/4"	1/2"	\$38.39
FC1/4	1/4"	28mm - 1-1/8"	1/2"	\$45.54
FC5/16	5/16"	38mm - 1-1/2"	1/2"	\$50.38
FCSET1/2	1/2" shank set of 3 includes above 3 sizes			\$113.96
FC1.5-3/4	5/16"	38mm - 1-1/2"	3/4"	\$50.38
FC2.5-3/4	5/16"	64mm - 2-1/2"	3/4"	\$59.95
FCSET3/4	3/4" shank set of 3 includes (38mm, 50.8mm, 63.5mm)			\$137.94



Bits sold separately



TURNING TOOL HOLDERS



- Accurately machined from special steel
- Available in straight, left & right hand shanks
- Supplied with Wrench / Key

Holder size dimensions are :
Length x Height x Width

Part No.	Bit Size	Holder Size	Shank	List \$
LTH1/8	1/8	115 x 12.7 x 8mm	Straight	\$41.64
LTH3/16	3/16	115 x 19 x 8mm	Straight	\$41.64
LTH1/4	1/4	125 x 22.5 x 10mm	Straight	\$43.93
LTH5/16	5/16	152 x 28 x 13mm	Straight	\$47.52
LTH3/8	3/8	178 x 35 x 16	Straight	\$65.40
LTH1/2	1/2	228 x 44 x 22mm	Straight	\$112.62
LTH5/8	5/8	280 x 50 x 25mm	Straight	\$178.22
LTH3/4	3/4	330 x 57 x 32mm	Straight	\$225.75
LTH3/16R	3/16	115 x 19 x 8mm	Right Hand	\$41.64
LTH1/4R	1/4	125 x 22.5 x 10mm	Right Hand	\$43.93
LTH5/16R	5/16	152 x 28 x 13mm	Right Hand	\$47.52
LTH3/8R	3/8	178 x 35 x 16	Right Hand	\$65.40
LTH1/2R	1/2	228 x 44 x 22mm	Right Hand	\$112.62
LTH5/8R	5/8	280 x 50 x 25mm	Right Hand	\$178.22
LTH3/4R	3/4	330 x 57 x 32mm	Right Hand	\$225.75
LTH3/16L	3/16	115 x 19 x 8mm	Left Hand	\$41.64
LTH1/4L	1/4	125 x 22.5 x 10mm	Left Hand	\$43.93
LTH5/16L	5/16	152 x 28 x 13mm	Left Hand	\$47.52
LTH3/8L	3/8	178 x 35 x 16	Left Hand	\$65.40
LTH1/2L	1/2	228 x 44 x 22mm	Left Hand	\$112.62
LTH5/8L	5/8	280 x 50 x 25mm	Left Hand	\$178.22
LTH3/4L	3/4	330 x 57 x 32mm	Left Hand	\$225.75

DOUBLE ENDED BORING BARS WITH HOLDERS

Part No.	Bar Size	Holder Size	Square Bit	List \$
LBB1/8HSS	3/8 x 4-1/2	1/2 x 2-1/4	1/8"	\$38.40
LBB3/16HSS	7/16 x 5-1/4	5/8 x 2-1/2	3/16"	\$42.00
LBB1/4HSS	9/16 x 6-3/4	5/8 x 3	1/4"	\$53.90
LBB5/16HSS	3/4 x 9-1/4	7/8 x 3-3/4	5/16"	\$71.94
LBB3/8HSS	7/8 x 11-1/2	1-1/4 x 4-1/2	3/8"	\$95.92
LBB1/2HSS	1-3/16 x 13-3/4	1-5/8 x 5	1/2"	\$142.00

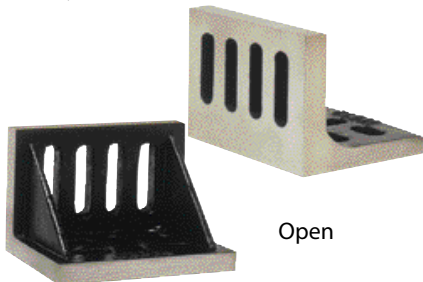
- Double ended boring bars & holder comes complete with screws & hex keys
- Boring Bars have one end 45° and the other 90°
- Made from tool steel with black finish



SLOTTED ANGLE PLATES

Made of high quality seasoned castings

Accurately machined 90 degrees square



Open

Webbed

Part No.	Length	First	Second	Style	List \$
AP075	75mm	63mm	50mm	Slotted & Webbed	\$90.00
AP112	115mm	90mm	75mm	Slotted & Webbed	\$106.00
AP150	150mm	125mm	115mm	Slotted & Open	\$180.00
AP200	200mm	150mm	125mm	Slotted & Webbed	\$230.00
AP250	250mm	200mm	150mm	Slotted & Webbed	\$370.00
AP300	300mm	225mm	200mm	Slotted & Open	\$510.00
AP300W	300mm	225mm	200mm	Slotted & Webbed	\$510.00



COMBINATION SQUARE CAST IRON

**Sturdy high quality cast iron
Combination Square**

- Metric & Imperial measurements
- Spirit Level on square & protractor
- Engraved graduations on both the rule & protractor
- Rule has a Satin Chrome Finish
- Supplied in a Sturdy Storage Case



NEW

Part No.	Description	List \$
COMBSETCI	Combination Set Cast Iron 300mm / 12 inch Rule	\$198.00
COMBSQ	Combination Square for Cast Iron Set	\$64.00
COMBSACE	Combination Set Centre Finder Piece Only	\$49.00
COMBSAPRO	Combination Set Cast Iron Protractor Head Only	\$59.00
COMBR300ME	Ruler to Suit Combination Set. 300mm / 12inch	\$49.00
COMBSETDIG	NEW Combination Set Cast Iron 300mm / 12 inch Rule	\$345.00

VEE BLOCKS

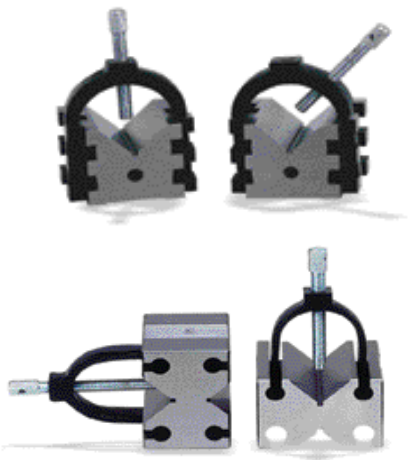
VEE BLOCK AND CLAMP SET

All sides are ground square and parallel to each other. V's are central, parallel and square and are matched in pairs. Made of heat treated and hardened tool steel. Precision made for machinist's and tool-makers use

Part No.	Length x Width x Height	Clamping Capacity	List \$
VB25	40 x 32 x 32mm	25mm	\$100.20
VB38	50 x 38 x 38mm	38mm	\$146.50
VB38HD	70 x 45 x 40mm	38mm	\$219.74
VB70	100 x 75 x 75mm	70mm	\$573.78

These V-Blocks can be used on top, bottom and either side. Clamps are secured in grooves machined in top & bottom surfaces.

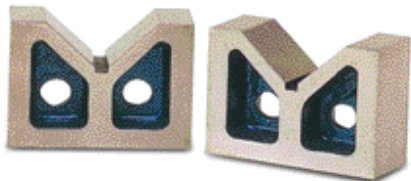
Part No.	Length x Width x Height	Clamping Capacity	List \$
VB38TOP	70 x 63 x 45mm	38mm	\$360.19
VB55TOP	125 x 88 x 70mm	55mm	\$579.94



CAST IRON V BLOCKS in Pairs without Clamps

Made of high quality seasoned castings. Blocks are accurately ground square & parallel. Supplied in matched & numbered pairs. Parallelism tolerance of Vee Axis to base per 6 inch length within 30 microns. Squareness tolerance of Vee Axis to end faces within 25 microns.

Part No.	Length	Height	Thickness	Width of Vee	List \$
VBCI100	100mm	65mm	41mm	50mm	\$189.20
VBCI125	125mm	80mm	50mm	50mm	\$250.32
VBCI160	150mm	90mm	63mm	82mm	\$537.15
VBCI200	205mm	140mm	100mm	100mm	\$1037.68
VBCI250	255mm	168mm	125mm	125mm	\$1288.00
VBCI300	305mm	205mm	180mm	165mm	\$2258.48



LATHE LIVE CENTRES DUAL BEARING -
for applications up to 2000rpm

Hardened and ground High Carbon Steel - point hardened to 52-58 HRC
Two anti-friction bearings - Single row deep groove ball bearing and taper roller bearing to absorb combined radial and thrust loads.
Run out within 0.005mm (0.0002") and speed capacity up to 2000rpm.

Part No.	Morse Taper	Length	Feature	List \$
LLC1MTHD	1MTHD	120mm	Dual Bearings	\$112.90
LLC2MTHD	2MTHD	148mm	Dual Bearings	\$152..30
LLC3MTHD	3MTHD	185mm	Dual Bearings	\$178.22
LLC4MTHD	4MTHD	220mm	Dual Bearings	\$273.26
LLC5MTHD	5MTHD	260mm	Dual Bearings	\$380.19
LLC6MTHD	6MTHD	355mm	Dual Bearings	\$1,051.85

LATHE LIVE CENTRES TRIPLE BEARINGS HIGH PRECISION

Precision Triple bearing design
Manufactured of hardened and ground alloy steel

Part No	Morse Taper	Point Dia.	Length	List \$
LLC2MTHDPREC	2MT	15mm	140mm	\$279.00
LLC3MTHDPREC	3MT	15mm	155mm	\$297.00
LLC4MTHDPREC	4MT	20mm	180mm	\$374.31

LATHE LIVE CENTRE SETS - with 7 interchangeable tips

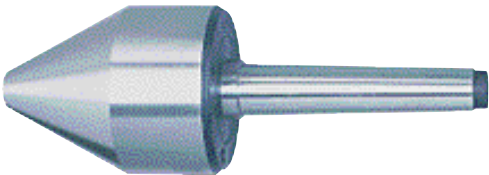
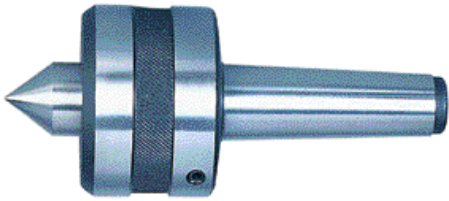
- Hardened and ground High Carbon Steel
- Complete with seven interchangeable tips + drift
- Incorporates three anti-friction bearings
- Run out within 0.005mm (0.0002")

LLCSET2MT	2MTHD	3 bearings	\$380.90
LLCSET3MT	3MTHD	3 bearings	\$415.84

PIPE LIVE CENTRES

- Designed to hold pipe and hollow work
- Preloaded bearings to achieve good thrust and radial load capacities
- Head made from heat treated hardened high carbon alloy steel
- Head hardened to 55-60 HRC

Part No.	Morse Taper	Head Diameter	Total Length	Angle of Bevel	List \$
LLCP2MT063	2MT	63mm	136mm	70 deg.	\$213.96
LLCP3MT078	3MT	78mm	172mm	70 deg.	\$285.14
LLCP4MT128	4MT	128mm	193mm	75 deg.	\$463.38
LLCP5MT147	5MT	147mm	243mm	75 deg.	\$665.34



LATHE DEAD CENTRES

- Design features to ISO298 / DIN806 standards
- 60° point solid lathe centre
- Precision ground and hardened
- Carbide tipped centres offer more wear resistance in both turning and grinding applications thus giving longer tool life and reducing costs

Part No.	Morse Taper	Length	Body Diameter	List \$
LDC0MT	0MT	70mm	9.2mm	\$31.70
LDC1MT	1MT	80mm	12.2mm	\$24.53
LDC2MT	2MT	100mm	18.0mm	\$29.34
LDC3MT	3MT	125mm	24.1mm	\$43.90
LDC4MT	4MT	160mm	31.6mm	\$85.46
LDC5MT	5MT	200mm	44.7mm	\$139.33
LDC6MT	6MT	270mm	63.8mm	\$292.99
Lathe DEAD CENTRES - CARBIDE TIPPED				
LDC1MTTCT	1MT	80mm	12.2mm	\$43.90
LDC2MTTCT	2MT	100mm	18.0mm	\$68.32
LDC3MTTCT	3MT	125mm	24.1mm	\$68.32
LDC4MTTCT	4MT	160mm	31.6mm	\$119.62
LDC5MTTCT	5MT	200mm	44.7mm	\$234.42
LDC6MTTCT	6MT	270mm	63.8mm	\$1,092.00

LATHE HALF CENTRES - CARBIDE TIPPED

- Solid, fully hardened construction
- 60° point hardened to 60-63 HRC
- Carbide tipped centres offer more wear resistance in both turning and grinding applications thus giving longer tool life and reducing costs

Part No.	Morse Taper	Length	Feature	List \$
LDC2MTH	2MT	104mm	carbide tipped	\$61.04
LDC3MTH	3MT	133mm	carbide tipped	\$68.32

EDGE & CENTRE FINDERS

Hardened and centreless ground to precision tolerance
Locate working edges like shoulders, centering points and scribed lines easily & accurately

Part No.	Description	Shank	Tip	List \$
EFI	Edge Finder	1/2 inch	0.2000"	\$45.54
EFM	Edge Finder	12mm	5mm	\$45.54
ECFI	Edge & Centre Finder	1/2 inch	0.2000"	\$45.54

WIGGLER & CENTRE FINDER SET

For accurately locating working points on drill presses, lathes, milling & other machines
Set consists of Snap In Holder, Needle point, ball contact & disc contact attachments and offset indicator holder

CFSET	5 Piece Set	\$66.49
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UNIGRIP DRILL PRESS VICE

- Made of high tensile iron casting
- Used for precision jobs
- Slots for easy clamping to the tables
- Heavy duty construction

Part No.	Jaw Width	Depth of Jaw	Weight	List \$
VDPU3	75mm	22mm	2.7 Kg	\$134.40
VDPU4	100mm	24mm	4.2 Kg	\$177.07
VDPU5	125mm	30mm	5.8 Kg	\$262.53
VDPU6	150mm	30mm	8.5 Kg	\$317.41

UNIGRIP DRILL PRESS VICE - PRECISION

- Made of high tensile iron casting
- Slots for easy clamping to the tables
- Heavy duty construction - used for precision jobs

Part No.	Jaw Width	Jaw Depth	Jaw Opening	Body Length	Weight	List \$
VDPP075	85mm	32mm	75mm	175mm	3.5 Kg	\$189.28
VDPP100	100mm	37mm	98mm	198mm	4.3 Kg	\$238.11
VDPP110	120mm	37mm	110mm	225mm	6.4 Kg	\$267.01

2 WAY TILTING AND SWIVELLING MACHINE VICE

- Tilts In 1 Axes (0 - 90 Degrees In One Axis)
- Swivels 360 Degrees On The Base
- Ideal For Complex Grinding, Milling and Drilling Operations.

Part No.	Jaw Width	Jaw Depth	Jaw Opening	List \$
MVST050-2	50mm	22mm	50mm	\$593.56
MVST075-2	75mm	34mm	75mm	\$989.23

3 WAY ANGLE MILLING VICE

- Angles can be set in 3 planes
- Swivel 360° around the base
- The vice can be elevated through 90° from horizontal to vertical
- Tilts 45° from side to side

Part No.	Jaw Width	Jaw Depth	Jaw Opening	List \$
MVST050-3	50mm	24mm	50mm	\$773.41
MVST075-3	75mm	34mm	75mm	\$1,378.85

NEW

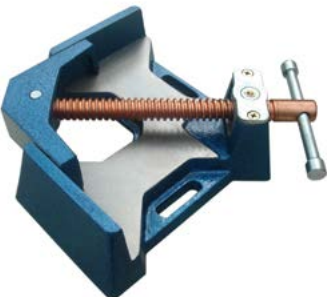
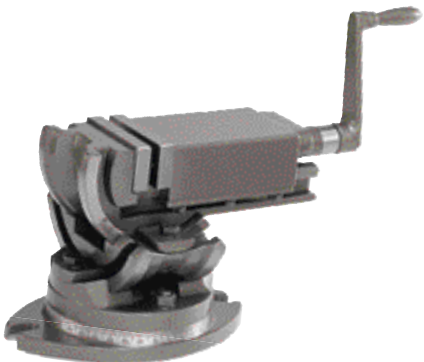
WELDERS CORNER ANGLE VICE

- Heavy duty vise to clamp at right angle.
- Floating head design
- Copper Plated Screw to withstand weld splatter

Part No.	Jaw Size	Jaw Opening	Jaw Height	List \$
MGWC0080	100x35mm	75mm	35mm	\$197.00



*Vice colours may vary



TOOL STEEL

Part No.	Size	Material	Shape	List \$
TS1/8x2.5	1/8 x 2-1/2	M-2 HSS	Square	\$7.74
TS1/8x3	1/8 x 3	M-2 HSS	Square	\$8.28
TS3/16x2.5	3/16 x 2.5	M-2 HSS	Square	\$7.09
TS3/16x3	3/16 x 3	M-2 HSS	Square	\$8.28
TS3/16x8	3/16 x 8	M-2 HSS	Square	\$20.17
TS1/4x2.5	1/4 x 2-1/2	M-2 HSS	Square	\$8.28
TS1/4x3	1/4 x 3	M-2 HSS	Square	\$9.48
TS1/4x8	1/4 x 8	M-2 HSS	Square	\$23.76
TS5/16x2.5	5/16 x 2-1/2	M-2 HSS	Square	\$9.48
TS5/16x3	5/16 x 3	M-2 HSS	Square	\$10.68
TS5/16x4	5/16 x 4	M-2 HSS	Square	\$14.28
TS5/16x8	5/16 x 8	M-2 HSS	Square	\$30.85
TS3/8x2.5	3/8 x 2-1/2	M-2 HSS	Square	\$10.46
TS3/8x3	3/8 x 3	M-2 HSS	Square	\$10.90
TS3/8x4	3/8 x 4	M-2 HSS	Square	\$14.28
TS3/8x8	3/8 x 8	M-2 HSS	Square	\$23.76
TS1/2x3	1/2 x 3	M-2 HSS	Square	\$16.68
TS1/2x4	1/2 x 4	M-2 HSS	Square	\$21.36
TS1/2x5	1/2 x 5	M-2 HSS	Square	\$26.16
TS1/2x8	1/2 x 8	M-2 HSS	Square	\$49.92
TS5/8x5	5/8 x 5	M-2 HSS	Square	\$41.64
TS3/4x5	3/4 x 5	M-2 HSS	Square	\$57.01
TS1x7	1 x 7	M-2 HSS	Square	\$130.69
TS6x100	6mm x 100	M-2 HSS	Square	\$20.17
TS8x100	8mm x 100	M-2 HSS	Square	\$24.96
TS9x100	9mm x 100	M-2 HSS	Square	\$34.64
TS10x100	10mm x 100	M-2 HSS	Square	\$35.64
TS10x200	10mm x 200	M-2 HSS	Square	\$71.29
TSR1/8x2-3/4	1/8 x 2-3/4	M-2 HSS	Round	\$11.88
TSR3/16x3-1/2	3/16 x 3-1/2	M-2 HSS	Round	\$11.88
TSR1/4x3	1/4 x 3	M-2 HSS	Round	\$14.28
TSR5/16x4-1/2	5/16 x 4-1/2	M-2 HSS	Round	\$17.88
TSR3/8x5	3/8 x 5	M-2 HSS	Round	\$23.76
TSR1/2x4	1/2 x 4	M-2 HSS	Round	\$29.76
TSR5/8x6	5/8 x 6	M-2 HSS	Round	\$35.64
TSR3/4x6	3/4 x 6	M-2 HSS	Round	\$57.01

NEW & IMPROVED

NEEDLE FILE SETS

NF12 - 12 PCE Needle File Set in plastic box	\$38.00
DFN00012 - 12 PCE Diamond Needle File Set in plastic wallet	\$47.00

The MAXIGEAR Standard Needle File set as well as the Diamond Needle File Set are suitable for working on a range of materials by tool and die makers, instrument makers, jewellers and hobbyist.

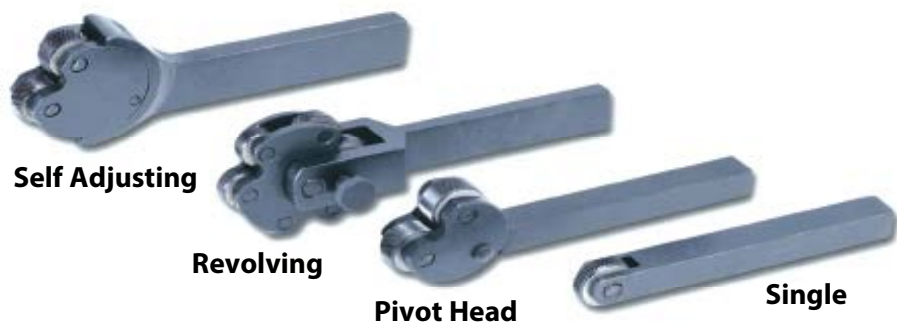
- Standard Needle File Set NF12:**
- Effective filing
 - Set contains various shapes
 - Set comes in a sturdy plastic contain and a hang-sell box for easy storage

- Diamond Needle File Set DNF00012:**
- Diamond particles securely bonded onto steel body
 - Effective filing
 - Comfortable plastic handle
 - Each set contains a variety of shapes



- M-2 High Speed Steel**
- This general purpose tool gives exceptional results on mild steel, alloys and tool steel
 - Ideal for finishing applications





TOOL HOLDERS

Machined & Ground in shiny black finish
Knurls are hob cut from HSS and heat treated

Part No.	Description	Knurl type	Knurls	Knurl Size	Bore	Shank	List \$
KTS1/2	Single Straight	Medium	1	3/4 x 1/4	1/4	12mm	\$30.50
KTS3/4	Single Straight	Medium	1	3/4 x 3/8	1/4	19mm	\$34.90
KTP	Pivot Head	Medium Diagonal	2	3/4 x 3/8	1/4	12mm	\$52.00
KTAS	Self Adjusting	Medium Diagonal	2	5/8 x 5/16	7/32	19 x 8mm	\$75.60
KTAL	Self Adjusting	Medium Diagonal	2	3/4 x 3/8	1/4	35 x 16mm	\$101.20
KT6S	Revolving	Fine Medium Coarse	6	5/8 x 5/16	7/32	19 x 8mm	\$136.50
KT6L	Revolving	Fine Medium Coarse	6	3/4 x 3/8	1/4	19 x 13mm	\$171.80

REPLACEMENT KNURLING WHEELS



Part No.	Size	Bore	Description	Suit Tool	List \$
K5/8SF	5/8 x 5/16	7/32	Straight Fine	KTAS & KT6S	\$19.20
K5/8SM	5/8 x 5/16	7/32	Straight Medium	KTAS & KT6S	\$19.20
K5/8SC	5/8 x 5/16	7/32	Straight Coarse	KTAS & KT6S	\$19.20
K5/8CF	5/8 x 5/16	7/32	Diamond Cross Fine	KTAS & KT6S	\$19.20
K5/8CM	5/8 x 5/16	7/32	Diamond Cross Medium	KTAS & KT6S	\$19.20
K5/8CC	5/8 x 5/16	7/32	Diamond Cross Coarse	KTAS & KT6S	\$19.20
K5/8DLF	5/8 x 5/16	7/32	Diagonal Left Hand Fine	KTAS & KT6S	\$19.20
K5/8DLM	5/8 x 5/16	7/32	Diagonal Left Hand Medium	KTAS & KT6S	\$19.20
K5/8DLC	5/8 x 5/16	7/32	Diagonal Left Hand Coarse	KTAS & KT6S	\$19.20
K5/8DRF	5/8 x 5/16	7/32	Diagonal Right Hand Fine	KTAS & KT6S	\$19.20
K5/8DRM	5/8 x 5/16	7/32	Diagonal Right Hand Medium	KTAS & KT6S	\$19.20
K5/8DRC	5/8 x 5/16	7/32	Diagonal Right Hand Coarse	KTAS & KT6S	\$19.20
K3/4SF	3/4 x 3/8	1/4	Straight Fine	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4SM	3/4 x 3/8	1/4	Straight Medium	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4SC	3/4 x 3/8	1/4	Straight Coarse	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4CF	3/4 x 3/8	1/4	Diamond Cross Fine	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4CM	3/4 x 3/8	1/4	Diamond Cross Medium	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4DLF	3/4 x 3/8	1/4	Diagonal Left Hand Fine	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4DLM	3/4 x 3/8	1/4	Diagonal Left hand Medium	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4DLC	3/4 x 3/8	1/4	Diagonal Left Hand Coarse	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4DRF	3/4 x 3/8	1/4	Diagonal Right Hand Fine	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4DRM	3/4 x 3/8	1/4	Diagonal Right Hand Medium	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4DRC	3/4 x 3/8	1/4	Diagonal Right Hand Coarse	KTS3/4 KTP KTAL KT6L	\$19.20
K3/4SF1/4	3/4 x 1/4	1/4	Straight Fine	KTS1/2	\$19.20
K3/4SM1/4	3/4 x 1/4	1/4	Straight Medium	KTS1/2	\$19.20
K3/4SC1/4	3/4 x 1/4	1/4	Straight Coarse	KTS1/2	\$19.20

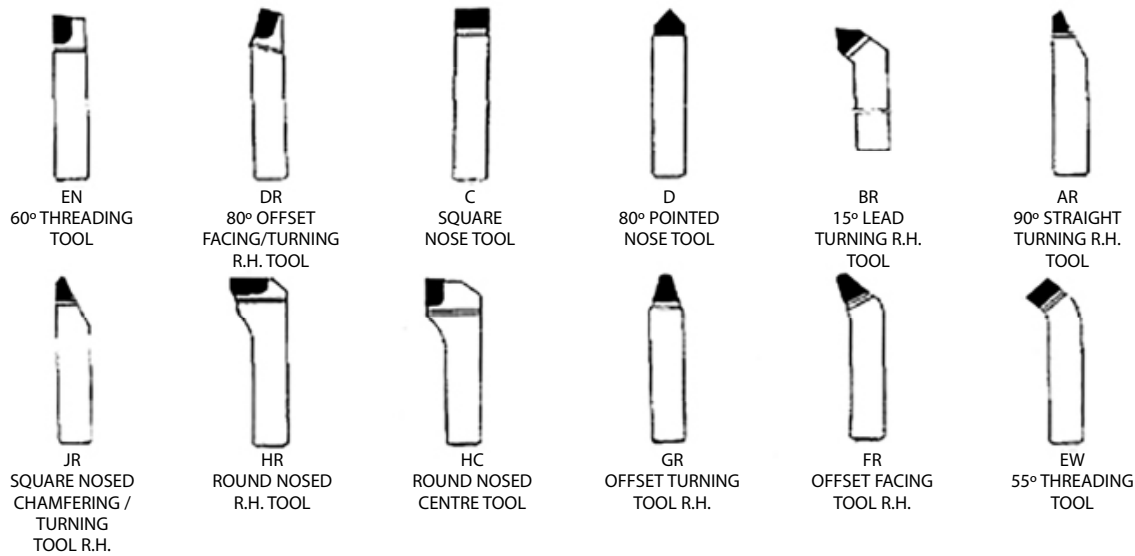
Pitch of Knurls Coarse = 2mm or 14 TPI Medium 1.05mm or 21 TPI Fine = 0.75mm or 33 TPI

CARBIDE TIPPED TURNING TOOLS

Part No.	Shank Size	Grade	Description	List \$
LTAL0606	6 x 6mm	P30	90 degree Straight turning Left hand	\$45.80
LTAR0606	6 x 6mm	P30	90 degree Straight turning Right hand	\$45.80
LTAL1010	10 x 10mm	P30	90 degree Straight turning Left hand	\$55.60
LTAR1010	10 x 10mm	P30	90 degree Straight turning Right hand	\$55.60
LTAL1212	12 x 12mm	P30	90 degree Straight turning Left hand	\$62.10
LTAR1212	12 x 12mm	P30	90 degree Straight turning Right hand	\$62.10
LTAL1616	16 x 16mm	P30	90 degree Straight turning Left hand	\$74.70
LTAR1616	16 x 16mm	P30	90 degree Straight turning Right hand	\$74.70
LTBL0606	6 x 6mm	P30	15 degree Lead turning Left hand	\$45.80
LTBR0606	6 x 6mm	P30	15 degree Lead turning Right hand	\$45.80
LTBL1010	10 x 10mm	P30	15 degree Lead turning Left hand	\$55.60
LTBR1010	10 x 10mm	P30	15 degree Lead turning Right hand	\$55.60
LTBL1212	12 x 12mm	P30	15 degree Lead turning Left hand	\$62.10
LTBR1212	12 x 12mm	p30	15 degree Lead turning Right hand	\$62.10
LTBL1616	16 x 16mm	P30	15 degree Lead turning Left hand	\$74.70
LTBR1616	16 x 16mm	P30	15 degree Lead turning Right hand	\$74.70
LTC0606	6 x 6mm	P30	Square nose tool	\$45.80
LTC0808	8 x 8mm	P30	Square nose tool	\$54.50
LTC1010	10 x 10mm	P30	Square nose tool	\$55.60
LTC1212	12 x 12mm	P30	Square nose tool	\$62.10
LTC1616	16 x 16mm	P30	Square nose tool	\$74.70
LTD0606	6 x 6mm	P30	80 degree Pointed nose tool	\$45.80
LTD1010	10 x 10mm	P30	80 degree Pointed nose tool	\$55.60
LTD1212	12 x 12mm	P30	80 degree Pointed nose tool	\$62.10
LTD1616	16 x 16mm	P30	80 degree Pointed nose tool	\$74.70
LTD2020	20 x 20mm	P30	80 degree Pointed nose tool	\$98.10
LTDR0606	6 x 6mm	P30	80 degree Offset facing/turning Right hand	\$45.80
LTDL1010	10 x 10mm	P30	80 degree Offset facing/turning Left hand	\$57.80
LTDL1212	12 x 12mm	P30	80 degree Offset facing/turning Left hand	\$65.40
LTDL1616	16 x 16mm	P30	80 degree Offset facing/turning Left hand	\$78.50
LTDR1616	16 x 16mm	P30	80 degree Offset facing/turning Right hand	\$78.50
LTEN0606	6 x 6mm	P30	60 degree threading tool	\$65.40
LTEN1010	10 x 10mm	P30	60 degree threading tool	\$65.40
LTEN1212	12 x 12mm	P30	60 degree threading tool	\$78.50
LTEN1616	16 x 16mm	P30	60 degree threading tool	\$101.40
LTEW0606	6 x 6mm	P30	55 degree threading tool	\$65.40
LTEW1010	10 x 10mm	P30	55 degree threading tool	\$65.40
LTEW1212	12 x 12mm	P30	55 degree threading tool	\$78.50
LTEW1616	16 x 16mm	P30	55 degree threading tool	\$101.40
LTFL1010	10 x 10mm	P30	Offset facing tool Left Hand	\$57.80
LTFR1010	10 x 10mm	P30	Offset facing tool Right Hand	\$57.80
LTFL1212	12 x 12mm	P30	Offset facing tool Left Hand	\$68.70
LTFR1212	12 x 12mm	P30	Offset facing tool Right Hand	\$68.70
LTFL1616	16 x 16mm	P30	Offset facing tool Left Hand	\$85.00
LTFR1616	16 x 16mm	P30	Offset facing tool Right Hand	\$85.00
LTGL1010	10 x 10mm	P30	Offset turning tool Left Hand	\$57.80
LTGR1010	10 x 10mm	P30	Offset turning tool Right Hand	\$57.80
LTGL1212	12 x 12mm	P30	Offset turning tool Left Hand	\$68.70
LTGL1616	16 x 16mm	P30	Offset turning tool Left Hand	\$85.00
LTGR1616	16 x 16mm	P30	Offset turning tool Right Hand	\$85.00
LTHC0606	6 x 6mm	P30	Round nose Centre tool	\$43.60
LTHC1010	10 x 10mm	P30	Round nose Centre tool	\$57.80
LTHC1212	12 x 12mm	P30	Round nose Centre tool	\$68.70
LTHC1616	16 x 16mm	P30	Round nose Centre tool	\$85.00
LTHL1010	10 x 10mm	P30	Round nose Left Hand tool	\$57.80
LTHR1010	10 x 10mm	P30	Round nose Right Hand tool	\$57.80
LTHL1212	12 x 12mm	P30	Round nose Left Hand tool	\$68.70
LTHR1212	12 x 12mm	P30	Round nose Right Hand tool	\$68.70
LTHL1616	16 x 16mm	P30	Round nose Left Hand tool	\$85.00
LTHR1616	16 x 16mm	P30	Round nose Right Hand tool	\$85.00
LTHR2020	20 x 20mm	P30	Round nose Right Hand tool	\$103.60
LTHR2525	25 x 25mm	P30	Round nose Right Hand tool	\$174.40
LTJL1010	10 x 10mm	P30	Square nose chamfering/turning tool Left Hand	\$32.70
LTJR1010	10 x 10mm	P30	Square nose chamfering/turning tool Right Hand	\$32.70
LTJL1212	12 x 12mm	P30	Square nose chamfering/turning tool Left Hand	\$74.10
LTJR1212	12 x 12mm	P30	Square nose chamfering/turning tool Right Hand	\$74.10
LTJL1616	16 x 16mm	P30	Square nose chamfering/turning tool Left Hand	\$92.70
LTJR1616	16 x 16mm	P30	Square nose chamfering/turning tool Right Hand	\$92.70
LTJR2020	20 x 20mm	P30	Square nose chamfering/turning tool Right Hand	\$103.60
LTK1010	10 x 10mm	P30	Parting tool Right Hand	\$76.30
LTK1016	10 x 16mm	P30	Parting tool Right Hand	\$76.30
LTK1020	10 x 20mm	P30	Parting tool Right Hand	\$78.50
LTK1220	12 x 20mm	P30	Parting tool Right Hand	\$85.00
LTK1525	15 x 25mm	P30	Parting tool Right Hand	\$93.80

INTERNAL THREADING TOOLS

Part No.	Shank Size	Grade	Description	List \$
LTAL0606	6 x 6mm	P30	90 degree Straight turning Left hand	\$45.80
LTAR0606	6 x 6mm	P30	90 degree Straight turning Right hand	\$45.80
LTAL1010	10 x 10mm	P30	90 degree Straight turning Left hand	\$55.60
LTAR1010	10 x 10mm	P30	90 degree Straight turning Right hand	\$55.60



WHEEL DRESSERS

Sturdy Cast Iron Construction

Part No.	Description	List \$
WD0	Wheel dresser #0 for small wheels	\$35.40
WD1	Wheel dresser #1 for wheels to 200mm	\$41.00
WD2	Wheel dresser #2 for wheels > 200mm	\$72.90
WDSP0	Spare Cutter Wheels for #0	\$9.80
WDSP1	Spare Cutter Wheels for #1	\$13.00
WDSP2	Spare Cutter Wheels for #2	\$19.00

#0 - 4 wheels x 30mm O/D x 12mm wide x 8mm bore
#1 - 4 wheels x 40mm O/D x 12mm wide x 13mm bore
#2 - 6 wheels x 60mm O/D x 16mm wide x 15.25mm bore



DIAMOND WHEEL DRESSERS

Part No.	Diamond	Shank Size	List \$
WDD0.25x6	0.25 Carat	12.7 x 150	\$39.95
WDD0.5	0.5 Carat	12.7 x 150	\$45.30
WDD0.5-3	0.5 Carat	10 x 75	\$70.60
WDD0.5x3	0.5 Carat	12.7 x 150	\$41.60
WDD0.75x6	0.75 Carat	12.7 x 150	\$74.50
WDD1	1 Carat	12.7 x 150	\$78.90
WDD1.5x6	1.5 Carat	12.7 x 150	\$149.00
WDD2.0x6	2 Carat	12.7 x 150	\$227.00
WDDT	0.5 Carat	40 x 120	\$112.00



Ideal tool for dressing wheels for surface grinders, universal grinders etc.

Quality industrial diamonds.

WDDT
T-Pattern



TAP WRENCHES - BAR TYPE

The best tool for hand tapping. Hardened and tempered jaws.

Part No.	Tap Capacity	Length	Square Range	Equivalent	List \$
TWB0	1.6 - 6.35mm	180mm	2 - 6mm	No. 00	\$26.71
TWB1	1.6 - 9.5mm	235mm	2.5 - 8mm		\$29.76
TWB1-1/2	1 - 12mm	175mm	2 - 7 mm	No. 0	\$40.33
TWB2	4 - 12.7mm	280mm	4 - 9mm	No. 5	\$41.64
TWB3	6.35 - 19mm	375mm	4.9 - 12mm	No. 6	\$63.00
TWB4	6.35 - 28.75mm	500mm	5.5 - 16mm	No. 7	\$104.53
TWB5	19 - 38.1mm	1000mm	9 - 25mm		\$261.38
TWB6	12.7 - 63.5mm	1370mm	16 - 32mm		\$279.26



TAP WRENCHES T TYPE SOLID JAW

Designed to hold taps in confined areas where it is not possible to use bar type wrenches. Heavy knurled cap for a better grip. Ground finish.

Part No.	Suit Taps	List \$
TWT1	2 - 5mm	\$19.62
TWT2	3 - 6mm	\$21.36
TWT3	6 - 12mm	\$23.76
TWTSET	TWT1, TWT2, TWT3	\$59.80



TAP WRENCHES T TYPE EXTRA LONG

Hardened & tempered replaceable jaws

Part No.	Tap Capacity	Length	List \$
TWT2L	4 - 8mm	330mm	\$49.05
TWT3L	6 - 12mm	330mm	\$78.48

TAP WRENCHES T TYPE RATCHETING

Part No.	Tap Capacity	List \$
TWTR2	3 - 6mm	\$38.40
TWTR3	6 - 12mm	\$53.52
TWTR3-12	3 - 12mm	\$71.00

TAP WRENCHES T TYPE RATCHETING EXTRA LONG

Part No.	Tap Capacity	Length	List \$
TWTR2L	3 - 6mm	330mm	\$71.29
TWTR3L	6 - 12mm	330mm	\$83.17

ROUND DIE STOCK HANDLES

For holding adjustable round split dies
Three set screw pattern. Single piece construction

Part No.	Die OD	Length	List \$
DH5/8	5/8	140mm	\$23.98
DH13/16	13/16	170mm	\$23.98
DH1	1 inch	220mm	\$19.00
DH1-5/16	1-5/16	250mm	\$47.96
DH1-1/2	1-1/2	300mm	\$39.40
DH1-3/4	1-3/4	370mm	\$71.94
DH2	2 inch	380mm	\$57.53
DH2-1/4	2-1/4	420mm	\$83.93
DH2-1/2	2-1/2	480mm	\$143.88
DH3	3 inch	560mm	\$203.83



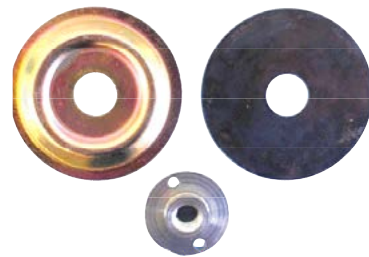


PIN SPANNERS



Part No.	Description	Colour	List \$
PSRED	Pins 5mm on 35mm centres	Red	\$19.90
PSBE	Pins 4mm on 20mm centres	Blue	\$10.08
PSBK	Pins 5mm on 23mm centres	Black	\$10.08
PSG	Pins 4mm on 28mm centres	Grey	\$10.08
PSADJ	Adjustable light duty pin spanner		\$14.90
PSZINC	Flat style 5mm on 35mm centres	Zinc	\$15.70

FLANGES FOR ANGLE GRINDERS



Part No.	Description	List \$
FSC14X2	Flange Set for cut-off wheels 14 x 2 x 90mm	\$48.00
F14X2	Flange 45mm diameter M14 x 2.0 thread	\$15.70
FSCW	Hard washer 90mm diameter M14x2.0 thread	\$13.70
FSCBF	Bottom Flange 90mm diameter M14 x 2.0 thread	\$15.70
F10X1.5	Flange 32mm diameter 100mm Grinder M10 x 1.5	\$13.40

PLANER BLADES



Part No.	Description	List \$
HSSPB1900B	80mm HSS suits Makita 1900B card of 2	\$16.40
HSSPB1600B	80mm HSS suits Makita 1600B card of 2	\$21.80
HSSPB1323A	82mm HSS suits Ryobi 1323A card of 2	\$21.80
HSSPB-22L	78mm HSS suits Ryobi L22L card of 2	\$19.60
HSSPBL120	90mm HSS suits Ryobi L120 card of 2	\$19.60
HSSPBF-20A	82mm HSS suits Hitachi F20A card of 2	\$16.40
HSSPBF-30A	90mm HSS suits Hitachi F30A card of 2	\$21.80

PLANER BLADES TUNGSTEN CARBIDE



Part No.	Description	List \$
CPBD	82mm card of 2 blades	\$21.30
CPB10SET	82mm sleeve of 10 pairs	\$190.80



BACKING PADS - BLACK				SWISS MANUFACTURED			
Part No	Size	Thread		Density			List \$
BP100X10X125B	100	M10 x1.25		HARD			\$13.38
BP100X10X15B	100	M10 x 1.5		HARD			\$13.38
BP115X14X2B	115	M14 x 2		HARD			\$17.12
BP125X14X2B	125	M14 x 2		HARD			\$19.80
BP178X14X2B	178	M14 x 2		HARD			\$25.68

BACKING PADS - FLEXIBLE NYLON BLACK

Part No	Size	Thread			Grits	Flexipads	List \$
BP100x10x15BISO	100	M10 x 1.5			80 + FINER	11502	\$26.75
BP115X14X2BISO	115	M14 x 2			80 + FINER	11513	\$33.17
BP125X14X2BISO	125	M14 x 2			80 + FINER	11523	\$33.17
BP178X14X2BISO	178	M14 x 2			80 + FINER	11532	\$41.73

BACKING PADS - WHITE

BACKING PADS - WHITE				SWISS MANUFACTURED			
Part No	Size	Thread		Density	Grits	Flexipads	List \$
BP100X10X15W	100	M10 x 1.5		MEDIUM			\$21.40
BP115X14X2W	115	M14 x 2		MEDIUM			\$21.40
BP125X14X2W	125	M14 x 2		MEDIUM			\$21.40
BP178X14X2W	178	M14 x 2		MEDIUM			\$26.75

BACKING PADS - FLEXIBLE NYLON WHITE

Part No	Size	Thread	Foam layer	Density	Grits	Flexipads	List \$
BP100X10X15WISO	100	M10 x 1.5			60 + FINER	11102	\$26.75
BP115X14X2WISO	115	M14 x 2			60 + FINER	11113	\$31.03
BP125X14X2WISO	125	M14 x 2			60 + FINER	11123	\$31.03
BP178X14X2WISO	178	M14 x 2			60 + FINER	11132	\$48.15
BP178X5/8WISO	178	5/8 UNC			60 + FINER	11131	\$41.73

BACKING PADS - TURBO HARD FLEXIBILITY

Part No	Size	Thread		Density	Grits	Flexipads	List \$
BP100X10X15T	100	M10 x 1.5		HARD	36 + finer	11703	\$37.45
BP115X14X2T	115	M14 x 2		HARD	36 + finer	11713	\$44.94
BP125X14X2T	125	M14 x 2		HARD	36 + finer	11723	\$48.15
BP178X14X2T	178	M14 x 2		HARD	36 + finer	11732	\$84.53

NEW

BACKING PADS - EXTRA LONG HEAVY DUTY 'GRIPPER SYSTEM' - SWISS MANUFACTURED							
Part No	Size	Thread		Density			List \$
BP100VLHCK	100	M14 x 2		HARD			\$54.57
BP100VLHPL	100	M14 x 2		HARD			\$46.01
BP115VLHCK	115	M14 x 2		HARD			\$57.78
BP125VLHCK	125	M14 x 2		HARD			\$70.62
BP125VLHPL	125	M14 x 2		HARD			\$60.99
BP175VLHCK	175	M14 x 2		HARD			\$102.72

SANDER POLISHER PADS - SOFT DENSITY VELCRO							
Part No	Size	Thread	Foam layer	Density	Max RPM	Flexipads	List \$
BP100x14x2VEF12S	115	M14 x 2	12mm	Soft	15,300	10346	\$69.55
BP125x14x2VEF12S	125	M14 x 2	12mm	Soft	12,250	36305	\$69.55
BP150x14x2VEF12S	150	M14 x 2	12mm	Soft	10,200	36315	\$77.04

SANDER POLISHER PADS - MEDIUM DENSITY VELCRO							
Part No	Size	Thread	Foam layer	Density	Max RPM	Flexipads	List \$
BP100X14X2VEF12M	100	M14 x 2	12mm	Medium	15,300	36115	\$65.27
BP115X14X2VEF12M	115	M14 x 2	12mm	Medium	13,300	36125	\$65.27
BP125X14X2VEF12M	125	M14 x 2	12mm	Medium	12,250	36140	\$69.55
BP150X14X2VEF12M	150	M14 x 2	12mm	Medium	10,200	36155	\$77.04
BP178X14X2VEF12M	178	M14 x 2	12mm	Medium	8,500	36170	\$101.65
BP178X5/8VEF12M	178	5/8 UNC	12mm	Medium	8,500	36175	\$101.65

SANDER POLISHER PADS - MEDIUM DENSITY PSA							
Part No	Size	Thread	Foam layer	Density	Max RPM	Flexipads	List \$
BP178X14X2PSA	178	M14 x 2	12mm	Medium	8,500	36070	\$84.53

BACKING PADS - MEDIUM FLEXIBILITY VELCRO NO FOAM LAYER							
Part No	Size	Thread	Foam layer	Density	Max RPM	Flexipads	List \$
BP100X14X2VEGP	100	M14 x 2	NONE	FIRM	15,300	11340	\$40.45
BP115X14X2VEGP	115	M14 x 2	NONE	FIRM	13,300	11341	\$37.45
BP125X14X2VEGP	125	M14 x 2	NONE	FIRM	12,250	11342	\$37.45
BP150X14X2VEGP	150	M14 x 2	NONE	FIRM	10,200	11343	\$55.43
BP178X14X2VEGP	178	M14 x 2	NONE	FIRM	8,500	11344	\$63.13

SANDER POLISHER PADS - EXTRA GRIP VELCRO FOR SURFACE CONDITIONING DISCS							
Part No	Size	Thread	Foam layer	Density	Max RPM	Flexipads	List \$
BP100X14X2VEX	100	M14 x 2	3mm + HOLE	Hard	15,300	10370	\$75.97
BP115X14X2VEX	115	M14 x 2	3mm	Hard	13,300	10371	\$71.69
BP125X14X2VEX	125	M14 x 2	3mm	Hard	12,250	10372	\$75.97
BP178X14X2VEX	178	M14 x 2	3mm	Hard	8,500	10374	\$133.75

BUFFING & POLISHING FOAMS					
Part No.	Dimension		Max RPM		List \$
44310 Yellow	150 x 50	5/8	2,500	Coarse	\$42.80
Coarse, open-celled foam designed for heavy cutting of oxidised paints.					
44205 Black	150 x 50	M14 x 2	2,500		\$43.00
Soft polishing foam that works very well on dark colours					

POLISHING COMPOUNDS

Part No.	Description		List \$
PCBRL	Polishing compound brown	Tripoli	\$19.75
Non ferrous & plastics - soft metals ie Aluminium, brass, copper, diecast - combined cutting & finishing. General purpose - use with stitched rag or loose leaf calico buff			
PCGY	Polishing compound grey	Ferropol	\$14.70
Fast cutting for polishing steel & stainless - use with stitched sisal buff Used to cut back light scratches			
PCWH	Polishing compound white	Hyfin	\$19.95
Fast cutter for all metals - use with sisal buff for cutting then calico for finishing			
PCGN	Polishing compound green rouge	Orion BB	\$31.50
For mirror finish on all metals when using calico mops			
PCBLS	Polishing compound	Multishine	\$24.15
Fine finish for non ferrous metals - for high gloss polish use loose leaf calico buff			
PCUN	Polishing compound liquid	Unipol	\$31.50
Liquid polish for metals, plastic and stone			
PCBB	Polishing compound tripoli fine	Tripoli BB	\$15.75
Fine finish for non ferrous metals			

ALUMINIUM LUBRICANTS

Used for lubricating circular saws, band saws etc when cutting aluminium & non ferrous metals & reduce clogging of sanding discs & belts

** Weights are approximate and can vary**

Part No.	Description	List \$
AL700	Tallow base lubricant 500 gram tube	\$20.40
WAX600	White Stearene Wax in a tray 600 gram	\$22.00

ABRASIVE RESTORERS

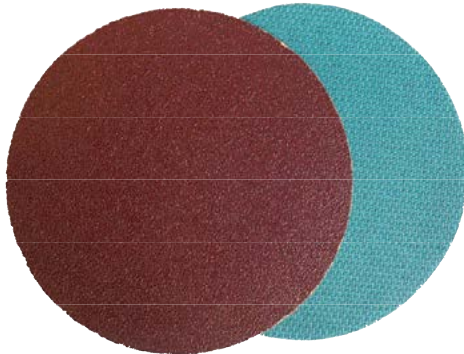
Cleaning stick for Abrasive Belts and discs

Part No.	Description	List \$
ARL	Natural Rubber Large 32 x 32 x 200mm	\$13.55
ARM	Natural Rubber Magnum 50 x 50 x 200mm	\$22.30

VELCRO CONVERTER DISCS & ABRASIVE DISCS

Part No.	Description	List \$
CD125B	Converter Disc 125mm	\$15.30
CD150B	Converter Disc 150mm	\$15.75
CD180B	Converter Disc 180mm	\$26.20
CD230B	Converter Disc 230mm	\$41.90
CD125D	Converter Disc & Abrasive Disc 125mm	\$26.00
CD150D	Converter Disc & Abrasive Disc 150mm	\$26.00
CD180D	Converter Disc & Abrasive Disc 180mm	\$43.00
CD230D	Converter Disc & Abrasive Disc 230mm	\$49.00

Converter Discs accept Hook & Loop type abrasive discs on one side and the other side is adhesive stick on.





TAPERED SPINDLES

TAPERED SPINDLES FOR BENCH GRINDERS • MANUFACTURED IN AUSTRALIA

Part No.	Description	List \$
TS12MLH	M12 x 1.75 thread Left Hand 140mm length	\$27.80
TS12MRH	M12 x 1.75 thread Right Hand 140mm length	\$27.80
TS1/2WLH	1/2 BSW thread Left Hand 140mm length	\$27.80
TS1/2WRH	1/2 BSW thread Right Hand 140mm length	\$27.80
TS16MLH	M16 x 2.0 thread Left Hand 140mm length	\$32.90
TS16MRH	M16 x 2.0 thread Right Hand 140mm length	\$32.90
TS16X1.5LH	M16 x 1.5 thread Left Hand 140mm length	\$43.90
TS16X1.5RH	M16 x 1.5 thread Right Hand 140mm length	\$43.90
TS5/8WLH	5/8 BSW thread Left Hand 140mm length	\$34.00
TS5/8WRH	5/8 BSW thread Right Hand 140mm length	\$34.00
TS5/8FLH	5/8 UNF thread Left Hand 140mm length	\$34.00
TS5/8FRH	5/8 UNF thread Right Hand 140mm length	\$34.00
TS5/8PRH	5/8 inch 10mm untapped Pilot Right Hand 140mm length	\$34.00
TS20MRH	M20 x 2.5 thread Right Hand 140mm length	\$54.50
TS1WLH	1" BSW thread Left Hand	\$245.00
TS1WRH	1" BSW thread Right Hand	\$245.00

Spindles described as "Pilot" have 10mm untapped hole that can be drilled and tapped.

TAPERED SPINDLES FOR STRAIGHT GRINDERS • MANUFACTURED IN AUSTRALIA

TSS12M	M12 x 1.75 thread Right Hand 90mm length	\$28.30
TSS14M	M14 x 2 thread Right Hand 90mm length	\$28.30
TSS1/2W	1/2 BSW thread Right Hand 90mm length	\$27.80
TSS10PLH	10mm Untapped Pilot Left Hand 90mm length	\$27.80
TSS10PRH	10mm Untapped Pilot Right Hand 90mm length	\$27.80

Spindles described as "Pilot" have 10mm untapped hole that can be drilled and tapped.

TAPERED SPINDLES WITH ROUND SHANK • MANUFACTURED IN AUSTRALIA

TS06MRDSH	6mm Round Shank Right Hand 85mm length	\$27.80
TS12MRDSH	12mm Round Shank Right Hand 95mm length	\$27.80

Can be used in straight grinders / polishers or in drill chucks with 6-12mm capacity.

EXTENSION SPINDLES FOR BENCH GRINDERS • MANUFACTURED IN AUSTRALIA

ES1/2WLH	1/2 BSW thread Left Hand 135mm overall length	\$27.80
ES1/2WRH	1/2 BSW thread Right Hand 135mm overall length	\$27.80
ES16MLH	M16 thread Left Hand 135mm overall length	\$36.40
ES16MRH	M16 thread Right Hand 135mm overall length	\$36.40
ES5/8WLH	5/8 BSW Left Hand 135mm overall length	\$36.40
ES5/8WRH	5/8 BSW Right Hand 135mm overall length	\$36.40
ES5/8FLH	5/8 UNF Left Hand 135mm overall length	\$36.40
ES5/8FRH	5/8 UNF Right Hand 135mm overall length	\$36.40

EXTENSION SPINDLES FOR ANGLE GRINDERS • MANUFACTURED IN AUSTRALIA

ESS14-5/8	M14 Female thread 5/8-11 Male thread 55mm length	\$22.00
ESS5/8-14	5/8-11 Female thread M14 Male thread 55mm length	\$22.00
ESS14MM	M14 Female thread M14 Male thread 55mm length	\$22.00

ESS14-5/8 is for using wire brushes etc with 5/8" female threads on angle grinders with 14mm spindles
ESS5/8-14 is for using wire brushes etc with 14mm female threads on anle grinders with 5/8" spindles

POLISHING MOPS - LOOSE LEAF CALICO (UNSTITCHED)

Part No.	Size	Folds	Width	List \$
PMC038050	38 mm	50	13 mm	\$14.91
PMC038100	38 mm	100	36 mm	\$23.10
PMC050050	50 mm	50	13 mm	\$12.60
PMC050100	50 mm	100	36 mm	\$22.05
PMC050125	50 mm	125		\$30.45
PMC075050	75 mm	50	13 mm	\$17.33
PMC075100	75 mm	100	36 mm	\$25.20
PMC100050	100 mm	50	13 mm	\$17.85
PMC100100	100 mm	100	36 mm	\$27.30
PMC100150	100 mm	150		\$40.95
PMC125100	125 mm	100	36 mm	\$36.75
PMC150050	150 mm	50	13 mm	\$25.73
PMC150100	150 mm	100	36 mm	\$42.53
PMC150150	150 mm	150		\$57.75
PMC150200	150 mm	200		\$78.75
PMC200025	200 mm	25		\$30.45
PMC200050	200 mm	50	13 mm	\$38.85
PMC200100	200 mm	100	36 mm	\$63.00
PMC200150	200 mm	150		\$85.05
PMC200200	200 mm	200		\$109.20
PMC250050	250 mm	50	13 mm	\$53.55
PMC250100	250 mm	100	36 mm	\$91.35
PMC250200	250 mm	200		\$183.75
PMC300050	300 mm	50	13 mm	\$57.75
PMC300100	300 mm	100	36 mm	\$108.15



Loose Leaf Calico Mop



Sisal Stitched Mop



Stitched Rag Mop



POLISHING RAG MOPS - STITCHED RAG

Part No.	Size	Sections	Width	List \$
PMST0381	38 mm	1 section	13mm	\$13.13
PMST0382	38 mm	2 sections	25mm	\$22.47
PMST0501	50 mm	1 section	13mm	\$17.33
PMST0502	50 mm	2 sections	25mm	\$22.47
PMST0503	50 mm	3 sections	38mm	\$32.55
PMST0751	75 mm	1 section	13mm	\$17.33
PMST0752	75 mm	2 sections	25mm	\$23.10
PMST1001	100 mm	1 section	13mm	\$19.43
PMST1002	100 mm	2 sections	25mm	\$27.30
PMST1003	100 mm	3 sections	38mm	\$33.60
PMST1501	150 mm	1 section	13mm	\$26.25
PMST1502	150 mm	2 sections	25mm	\$35.70
PMST1503	150 mm	3 sections	38mm	\$48.30
PMST2001	200 mm	1 section	13mm	\$24.15
PMST2002	200 mm	2 sections	25mm	\$44.10
PMST2003	200 mm	3 sections	38mm	\$55.65
PMST2004	200 mm	4 sections	50mm	\$68.25
PMST2501	250 mm	1 section	13mm	\$27.83
PMST2502	250 mm	2 sections	25mm	\$47.25
PMST2503	250 mm	3 sections	38mm	\$65.10
PMST2504	250 mm	4 sections	50mm	\$85.05
PMST3001	300 mm	1 section	13mm	\$36.54
PMST3002	300 mm	2 sections	25mm	\$57.75
PMST3003	300 mm	3 sections	38mm	\$81.90
PMST3004	300 mm	4 sections	50mm	\$108.15
PMST3502	350 mm	2 sections	25mm	\$75.60
PMST3504	350 mm	4 sections	50mm	\$127.05

POLISHING MOPS - SISAL STITCHED

Part No.	Size	Sections	Width	Colour	List \$
PMS0381	38 mm	1 section	13mm	Untreated	\$11.03
PMS0382	38 mm	2 section	25mm	Untreated	\$16.49
PMS0501	50 mm	1 section	13mm	Untreated	\$13.23
PMS0502	50 mm	2 section	25mm	Untreated	\$19.85
PMS0503	50 mm	3 section	38mm	Untreated	\$24.15
PMS0751	75 mm	1 section	13mm	Untreated	\$13.13
PMS0752	75 mm	2 section	25mm	Untreated	\$19.43
PMS1001	100 mm	1 section	13mm	Untreated	\$13.13
PMS1002	100 mm	2 section	25mm	Untreated	\$23.63
PMS1501	150 mm	1 section	13mm	Untreated	\$18.38
PMS1502	150 mm	2 section	25mm	Untreated	\$26.25
PMS2001	200 mm	1 section	13mm	Untreated	\$24.15
PMS2002	200 mm	2 section	25mm	Untreated	\$37.17
PMS2003	200 mm	3 section	38mm	Untreated	\$58.80
PMS2004	200 mm	4 section	50mm	Untreated	\$67.20
PMS2501	250 mm	1 section	13mm	Untreated	\$30.45
PMS2502	250 mm	2 section	25mm	Untreated	\$51.45
PMS3001	300 mm	1 section	25mm	Untreated	\$45.15
PMS3002	300 mm	2 section	25mm	Untreated	\$48.30
PMS3004	300 mm	4 section	50mm	Untreated	\$89.25
PMS3504	350 mm	4 section	50mm	Untreated	\$109.20

POLISHING MOPS - LAMBSWOOL BONNETS

Part No.	Size	List \$
PB125	125 mm	\$10.50
PB180	180 mm	\$36.75
PB200	200 mm	\$40.95



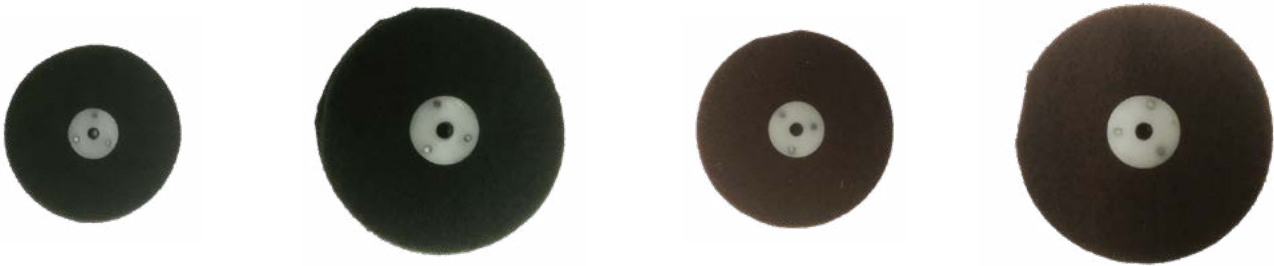
Note - All lengths are approximate and subject to change as per Manufacturer's Specifications.



POLISHING MOPS - NONWOVEN MOPS

Generally used as a cut and polish wheel where a clean satin finish is required.
Non woven wheels are sensitive to heat and must not run too fast or with too much pressure.

Part No.	Size	Sections	Thickness	Colour	List \$
PMGNW0506	50mm	6	42mm	Green	\$25.04
PMGNW1003	100mm	3	21mm	Green	\$20.00
PMGNW1503	150mm	3	21mm	Green	\$24.47
PMGNW1506	150mm	6	42mm	Green	\$36.28
PMMNW0506	50mm	6	42mm	Maroon	\$25.04
PMMNW1003	100mm	3	21mm	Maroon	\$20.00
PMMNW1503	150mm	3	21mm	Maroon	\$30.19
PMMNW1506	150mm	6	42mm	Maroon	\$39.17



EZ THREAD™ RESTORES
DAMAGED THREADS FAST

For Die Grinders, Dremels & Drills !



Restore in seconds what used to take hours to repair! Let the power behind the world's only **Rotary Thread Restoration™** tool do the work for you! No more guessing on matching tool sizes to thread diameters.EZ Thread™ easily restores* internal / external, corrosion, dings, even damaged lead threads. Virtually any material, even hard-ened metal doesn't stand a chance!



EZT 382	60 Degree Diamond Thread Restorer 3.2mm shank 50mm length	\$37.20
	10mm head diameter pitches down to 28 TPI 0.8M	
EZT 154	60 Degree Diamond Thread Restorer 3.2mm shank 50mm length	\$99.60
	40mm head diameter pitches down to 28 TPI 0.8M	
EZTS 154	Ring Groove Thread Restorer 3.2mm shank 50mm length	\$105.00
	40mm head diameter	
EZTS 218	Acme Thread Restorer 1/4" shank 50mm length	\$117.00
	50mm head diameter	



IN-LINE LUBRICATORS - MADE IN THE USA

Designed for use with tools being used too far away from compressor to be lubricated by a permanently mounted unit. Suitable for use on a wide range of tools, including air scribes, chipping hammers, needle scalars and piston scalars.

Part		Max working	Oil WT.	Air Flow	
No.		pressure	Rec	70 PSI	List \$
TX-0L	1.4 fl.oz (42 ml) in-line lubricator 1/2" BSPF	500	10 WT.	30 CFM	\$141.00
TX-1L	3.7 fl.oz (111 ml) in-line lubricator 3/4" BSPF	260	10 WT.	70 CFM	\$337.05
TX-2L	11 fl.oz (330ml) in-line lubricator 3/4" BSPF	300	10 WT.	70 CFM	\$205.44
TX-3L	16 fl.oz (480 ml) in-line lubricator 1" BSPF	250	10 WT.	150 CFM	\$238.61



IN-LINE FILTER LUBRICATORS - MADE IN THE USA

One of the most common repairs an air tool undergoes is disassembly to clean foreign material out of the valve assembly. In-line Filter Lubricators help prevent this from happening. The 40 micron filter can be easily cleaned or replaced.



Part		Max working	Oil WT.	Air Flow	
No.		pressure	Rec	70 PSI	List \$
TX-0L-F	1.4 fl.oz (42 ml) in-line filter lubricator 1/2" BSPF	500	10 WT.	30 CFM	\$210.79
02008	40 Micron bronze filter to suit TX-0L-F				\$32.70
TX-1L-F	3.7 fl.oz (111 ml) in-line filter lubricator 3/4" BSPF	260	10 WT.	70 CFM	\$230.05
02013	40 Micron bronze filter to suit TX-1L-F				\$53.40

VENTURI AIR MOVERS - MADE IN THE USA

Air movers or air horns are used wherever there is a need to disperse fumes, move air into confined spaces, or cool machinery or products with a blast of directed air.

Part No	Desctiption	List \$
TX3AMS	6" Horn x 16.75" length air mover	\$973.91
TX3AM	7" Horn x 30.5" length air mover	\$1005.59
TX6AM	12.5" Horn x 44.25" length air mover	\$1252.76
TX8AM	15.5" Horn x 46.06" length air mover	\$2088.64
TX10AM	15.75" Horn x 48" length air mover	\$2,985.30



TXAS1 Air Scribe

Adjustable throttle for a variety of jobs
Carbide tipped stylus for longer life
Equipped with a flexible hose & filter
with a 3/8" NPT fitting
List Price \$662.87

Safety Lock Cables

Durable heavy duty steel cables help prevent injury from accidental separation of clamp and coupling devices

TX-SLC1	1/8" cable x 20"	\$33.70
TX-SLC2	1/4" cable x 38"	\$53.59



PIN CHUCKS

PIN CHUCK KIT

Designed for holding small drills. 3 interchangeable collets
0 - 0.8mm, 0.8 - 1.60mm, & 1.60 - 2.40mm

PCHUCK	Pin Chuck Kit with 3 collets	\$47.50
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MICRO CHUCK

For use in drill press or hand held tools. Suitable for drills 0.3 - 1.00mm
Can be held in any 1/8 or 3/16 collet or 3 jaw drill chuck

PMICRO	Micro chuck for 0.3 - 1.00mm drills	\$48.83
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DOUBLE ENDED PIN VICE

Has two 4 jaw double ended collets
Popular tool for jewellers, watch makers, model makers

PVDE	4 Jaw Pin Vice 0 - 3.2mm	\$47.52
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PIN VICE SET

PV4001S	4 Jaw Pin vices 0.8 through 4.85mm	\$47.52
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TWEEZER SET

6 Piece Set contains 2 straight, 1 knurled straight, 2 bent point & 1 self locking
Lengths vary from 125 - 175mm

TWSET	Stainless Steel Hobbyist Set	\$47.52
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NEW

SUPERFLEX CURVE

Product innovation, designed and manufactured by Grinding Techniques in accordance with European Safety Standards ensures exceptional safety for hand held radii and contour cutting. Used for hand-held grinders, suitable for Stainless and Carbon steel, High alloy steel and Mild steel. (Available in Shape 28).



MGCCD125	Super Flex Curve Disc 125 x 2.1 x 23mm	\$9.70
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