OP DISCOUNT SUPPLY

uperior Import

- Has unlimited applications such as magnetic fasteners, displays, holding maps etc.
- Has tapped hole of 1/4" 20
- Comes with Plated Keepers



Order No.	Diameter	Height	Pull	Price
2391116	11/16"	5/8"	6 lbs.	
2391316	13/16"	3/4"	10 lbs.	
2391016	1-1/16"	1"	14 lbs.	
2390138	1-3/8"	1-3/16"	30 lbs.	

## SHALLOW POT CERAMIC MAGNETS

SERIES 239:

- · Permanent, Powerful Magnets to hold, lift and attract metal parts.
- Shallow Depth permits use in confined spaces
- Model 2390134 has 10 x 24 threaded Center Hole for fastening with machine screw.
- Large Sizes have 3/8" clearance holes for fastening with rods or bolts.

ŭ				
Order No.	Diameter	Depth	Pull	Price
2390134	1-3/4"	1/4"	10 lbs.	
2390200	2"	3/8"	20 lbs.	
2390234	2-3/4"	7/16"	35 lbs.	
2391138	3-1/8"	1/2"	50 lbs.	

#### MAGNETIC WELDING LINK SERIES 239:

- Ideal for holding steel parts for welding, brazing etc.
- Wing nut adjustment.
- No clamp needed
- Two heavy magnetic blocks 2-3/8"(60mm) long x 1-1/8"(28mm) square linked together for easy adjustment.

Order No.	Price	
9990001		



#### MAGNETIC SEPARATOR

SERIES 239:





- Specially designed for separating ferrous sheets or particles.
- Very useful in workshops for cleaning machine beds, agriculture industry, etc.
- Powerful magnetic force can be demagnetized by simply pulling up the handle.

Order No.	Length x Width x thickness	Price
9990002	9-1/4 x 5-1/4 x 1"/ 235 x 135 x 25mm	

## **EXTRA POWER MAGNETIC HOLDFASTS**

**SERIES 239:** 

- Have tremendous power.
- Provided with Push Off Screw to push work away from the holdfasts as this cannot be done by hand.
- Also provided with plated Keepers which protect and retain magnetic field.
- Can be used to hold work for welding, grinding. Ideal for making inexpensive lifting devices and jigs.
- Have many applications in material handling and machine shop.

Order No.	Diameter	Magnetic Pull	Price
2391340	1-3/4"	45 lbs.	
2392180	2-1/8"	70 lbs.	
2392340	2-3/4"	110 lbs.	

## SERIES 239:



## Very handy for holding tools parts of assembly, jigs, parts for dipping, painting, sand blasting etc.

MAGNETIC RACK (ORGANIZER)

Beautifully finished with white powder coating.

Order No.	Length	Price
9990012 2390018 2390024	12"/300mm 18"/450mm 24"/600mm	

## **MAGNETIZER / DEMAGNETIZER**

**SERIES 802:** 

Wiha magnetizer/demagnetizer magnetizes steel screwdriver blades, tweezers and similar tools. Box high quality plastic, shock-resistant, cadmium free. Magnetize by leading tool through + opening and demagnetize by leading tool through - opening. Dimensions: 2.1" x 2.0" x 1.1"



Ouden Ne	5	Dul
Order No.	Description	Price
40010	Magnetizer/Demagnetizer	

## MAGNETIC QUICK CLAMPS

**SERIES 239:** 





- Designed to enable fast and accurate holding of ferrous metals for welding and assembly.
- Small compact design with powerful magnetic force.
- Body holes enable the clamps to be built into jigs or hung when not in use.

Order No.	Diameter	Angles	Price
2394258 2394380	4-3/8" x 3-3/4" 4" x 2-5/8"	30°, 90°, 135° 30°, 45°, 60°, 75°, and 90°	

## SHOP DISCOUNT SUPPLY

#### **SERIES 213:**



Aluminum, nickel and cobalt alloy makes General's Alnico line of magnets strong, and permanent. Under normal working conditions and temperatures, Alnico magnets will retain their magnetic force indefinitely. Removable keepers insure permanence. All weights and measurements are approximate.

#### **Button Type Alnico Magnets**

GENERAL

- Button shaped magnet has almost unlimited applications.
- Retrieves screws and steel parts.
- Center hole in top of magnet for easy fastening.





372C

372E

Model No.	Dia.	Ht.	Pull	Cored Hole	Order No.	Price
372A	1/2"	3/8"	1-1/2 lbs.	1/8"	42073	
372B	3/4"	1/2"	4 lbs.	1/8"	42076	
372C	1"	5/8"	6-1/2 lbs.	3/16"	42079	
372D	1-1/4"	3/4"	14 lbs.	3/16"	42082	
372E	1-1/2"	7/8"	18-1/2 lbs.	1/4"	42085	

#### **Pocket Horseshoe Alnico Magnets**

- Small but powerful magnet.
- For retrieving small steel parts and screws from hard-to-get-at places.
- 1/4" opening between poles



370-1

Order No.	Model No.	Size	Pull	Price
42041	370-1	1 oz.	2-1/4lbs.	

#### **Pot Alnico Magnets**

- Unique combination of strong magnet with insulating ring gives this magnet the superior holding power of larger ones.
- 1/4" diameter x 20 threads-per-inch hole for attaching to fixtures and machines.





Model					Order	
No.	Dia.	Height	Pull	Wt.	No.	Price
374A	11/16"	5/8"	6 lbs.	6 oz.	42093	
374B	13/16"	3/4"	10 lbs.	6 oz.	42096	
374C	1-1/16"	1"	18 lbs.	12 oz.	9942102	
374D	1-3/8"	1-3/16"	35 lbs.	24 oz.	9942105	

#### **Alnico Shallow Pot Magnets**

- Our best quality shallow pot magnets.
- Shallow depth permits use in confined spaces.
- · Alnico metal capable of withstanding extreme heat. Will not lose magnetism.



Model		D. II	Donth	Hala	Order	Duine
No.	Dia.	Pull	Depth	Hole	No.	Price
378A	0.75"	7bs.	.313"	.147"	42126	
378B	1.125"	11 lbs.	.344"	.190"	42129	
378C	1.50"	29 lbs.	.406"	.190"	42130	

#### Magnetizer/ Demagnetizer

- Powerful magnet specially designed for magnetizing and demagnetizing screwdrivers, nut drivers, wrenches, taps and small tools.
- Converts any tool blade into a magnetic retriever for screws, nuts and metallic particles.

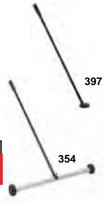
Order No.	Model No.	Dimensions	Price
42021	360	1"x1"x1"	



#### Pickup Stick™/ Sweeper

- An ideal tool for retrieving iron, steel & all ferrous materials
- · Powerful, permanent magnet for a no-stoop
- Vinyl-coated magnet for long-life and durability.
- 37-inch steel shaft for greater strength and durability.
- Plastic handle grip for greater control and comfort.
- Sweeper width 24 inches.

Order No.	Model No.	Price
31434	397 Pickup Stick	
22189	354 Sweeper	



#### **Shallow Pot Ceramic Magnets**

- Shallow depth permits use in confined spaces.
- Nos. 376A and 376B have 3/16" diameter clearance holes for fastening with rods or bolts.
- Nos. 376C and 376D have 9/32" diameter clearance holes.



Model No.	Dia.	Depth	Pull	Order No.	Price
376A	1-3/8"	3/16"	12 lbs.	42111	
376B	2"	1/4"	20 lbs.	42114	
376C	2-5/8"	3/8"	35 lbs.	42117	
376D	3-1/4"	7/16"	50 lbs.	42120	

#### **Power Alnico Magnets**

- Strong magnetic pull for lifting, holding, sorting, clamping or retrieving steel or iron parts.
- · Hole in top of magnet for attaching conveyors, racks, and welding jigs.



Model No.	Size oz.	Approx. Pull Lbs.	Width In.	Height Inches	Pole Depth In.	Pole Width In.	Opening Between Poles In.	Cored Hole In.	Wt. ea. with Keeper	Order No.	Price
370-2	2	13	1-1/8"	3/4	3/4	1/4	9/16	3/16	3 oz.	42044	
370-3	3	17	1-5/16"	1-3/8	5/8	3/8	5/16	-	4 oz.	42047	
370-4	4	22	1-1/2"	1	1	5/16	3/4	3/16	5 oz.	42050	
370-6	6	30	1-3/4"	1-1/8	1-1/8	5/16	7/8	3/16	8 oz.	42053	
370-8	8	32	2-3/16"	1-13/16	15/16	1/2	1-3/16	3/16	10 oz.	42056	
370-10	10	37	2-7/16"	2	15/16	5/8	1-3/16	3/16	13 oz.	42059	
370-12	12	42	2-5/8"	2-1/4	15/16	5/8	1-3/8	3/16	15 oz.	42061	
370-16	16	50	3"	2-1/2	15/16	3/4	1-1/2	3/16	20 oz.	42064	
370-24	24	70	2-1/2"	1-13/16	1-7/8	5/8	1-3/8	1/4	28 oz.	42067	



## MAGNETIC TOOLS

**SERIES 213:** 

General's magnetic pickups are an excellent tool for retrieving small steel and iron parts from hard-to-reach places. The high power neodymium magnet is six times more powerful than a cobalt magnet of the same size and density.



While we show only the popular GENERAL items we can supply their entire range of products; please inquire.



#### **Magnetic Strip**

- Our flexible magnetic strip with adhesive backing adheres to most smooth surfaces.
- Holds small metal objects.
- 1/16" thick and easily cuts to desired length with scissors or knife.

Model		Order	
No.	Size	No.	Price
366	1/2"x30"	42027	
367	1/2"x10'	42030	
367-100	1/2"x100'	42031	
368	1"x30"	42033	
369	1"x10'	42036	
369-100	1"x100'	42038	

#### Pickup/ Release Magnet

- A one-hand operated magnetic tool for picking up and releasing iron and ferrous objects.
- Wide 4" diameter magnetic surface holds more pieces.
- 16 lbs. of lifting power.
- Ideal for cleaning-up around power equipment such as drill presses, milling machines and lathes.

Model No.	Pull	Order No.	Price
379	16 lbs.	42123	





#### **Pocket Magnetic Pickups**

- Powerful permanent magnet in a knurled aluminum holder with handy pocket clip.
- No. 386 has a high-powered neodymium magnet which is six times more powerful than a cobalt magnet of the same size and density.
- Ideal for retrieving small steel and iron parts from hard-to-reach areas.
- Small magnet size actually measures 2/10" x 1/4".
- Measures 5-1/2" overall.

Model No.	Magnet	Pull	Order No.	Price
386	NEO	2 lbs.	42219	

#### Flex-o-Stiff Magnetic Pickup

- An ideal tool for retrieving steel parts from hard-to-reach places.
- No. 384N has a high-powered neodymium magnet which is six times more powerful than a cobalt magnet of the same size and density.
- Permanent magnetic power.
- Magnet is fitted into an 18" nickel plated holder, which can be extended to a 32" flexible retriever.

Model No.	Magnet	Pull	Order No.	Price
384N	NEO	2 lbs.	42210	

#### Telescoping Magnetic Pickups

- A powerful permanent magnetic pickup tool.
- Ideal for retrieving steel and iron parts from hard-to-reach work areas.
- Magnet is fitted in a 5-1/2" long nickel plated steel handle that can extend up to 23-1/2".
- Holder is fitted with a pocket clip.

Model No.	Pull	Order No.	Price
383NX	2 lbs.	9942208	

## Magnetic Pickup With Pivot Joint

- An excellent tool for retrieving small steel parts from hard-to-reach places.
- High-power neodymium magnet lifts up to two pounds and will never lose its magnetism.
- 8-3/4" overall length.
- Locking pivot joint allows user to pick up objects around corners.
- Nickel plated steel body with cushion grip handle
- Pocket clip for convenient storage

Model No.	Pull	Order No.	Price
392	2 lbs.	42224	

## Extra-Long, Magnetic Pickup With Pivot

- An excellent tool for retrieving steel parts from hard-to-reach places.
- High-power neodymium magnet lifts up to 5 lbs. and will never lose its magnetism.
- Steel body measures 13" and can be extended to 27".
- Locking pivot joint allows user to pick up objects around corners.
- Body is chrome plated, with a vinyl cushion grip handle.

Model No.	Pull	Order No.	Price
394	5 lbs.	42228	

#### **Bendable Magnetic Pick-Up**

- An excellent tool for retrieving steel parts from hard-to-reach places.
- High-power neodymium magnet is six times more powerful than a cobalt magnet of the same size and density.
- Knurled aluminum body with bendable 15" wire.
- Overall length is 20".
- Lifts up to 2 pounds.

Model No.	Pull	Order No.	Price
395	2 lbs.	42229	

## OP DISCOUNT SUPPLY

## ADAPTER PIN CHUCK SET

**SERIES 306:** 



Superior Import

- For use with miniature drills.
- Lock this adapter in chuck to convert it for precise drilling.
- Also adapts 3/32" (2.40mm) Collets on rotary tools and flexible shafts to a more useful 0 to 3/32" (0 to 2.40mm)
- Comes with two sets of jaws (Capacity 0 to 1/16" (0 to 1.60mm) and 1/16" to 3/32"(1.60mm to 2.40mm)
- Shank diameter 3/32" (2.40mm), Shank length 1-3/8" (34.90mm)
- Overall length 2-5/8" (66.50mm)

Order No.	Price
3100200	







- Ideal vise for holding small tools, rods, wires, taps etc.
- · Collets grip firmly when screw chuck is tightened.
- Heavy knurled body.
- Black shiny finish
- Available in individual sizes and also in a set of four in attractive plastic pouch.

	Capacity			
Order No.	Inch	mm	Overall Length	Price
3060001 3060002 3060003 3060004 1900000	0.000 to .040" 0.031 to .060 .052 to .125 .120 to .192 Set of four in a	0 to 1.0 0.8 to 1.5 1.3 to 3.1 3.0 to 4.85	3-3/8"/85mm 3-5/8"/92mm 3-3/4"/95mm 4-1/8"/105mm	

## **PIN VISE - SLIDING AND MINI**

SERIES 306:



Sliding pin vise features a sliding, knurled ring to close jaws making it easy to operate. Mini pin vise features a heavy knurled brass body.

Order No.	Description	Capacity	Overall Length	Price
3060013	Sliding Pin Vise	0 to 3/64"(0 to1.3mm)	4-1/8"/105mm	
3060014	Mini Pin Vise	0 to 1/32"(0 to .7mm)	3-1/8"/80mm	

## **KEY CADDY**

**SERIES 791:** 





Heavy duty chrome-plated die-cast case with stainless steel key ring. Returns keys and other articles automatically. For custodians, maids, watchmen, service station attendants and many others. Great for welders to carry torch ignitors. Available with regular belt clip that clips over belt, or a looped clip that the belt feeds through.

Description	Catalog No.	EDP No.	Price
Regular Belt Clip	SK1	63135	

## PIN CHUCK SET

SERIES 306:

- Designed for holding small drills
- Black shinv finish.





Order No.	Description	Price
1920000	A knurled chuck with 1/4" diameter shank holds all three collets: 0-1/32" 0-0.8mm 1/32" -1/16" 0.8-1.60mm 1/16"-3/32" 1.6-2.40mm	

#### ADJUSTABLE PIN VISES

SERIES 306:



- 3 jaw steel screw chuck
- Unbreakable plastic handle
- Ideal tool for holding small drills, burs, wires, reamers and other miniature tools.
- Extensively used in electronic assembly, tool making and has many applications.

	Capacity			
Order No.	Inch	mm	Overall length	Price
3060009 3060010	0 to 1/4 1/8 to 1/2		6-3/16"/155mm 6-1/2"/165mm	

## **DOUBLE END PIN VISE (4 JAW)**

**SERIES 306:** 





- · Has two four jaw double end collets.
- · Very popular with jewelers, watch makers, model makers etc.

Order No.	Capacity		Order No. Capacity		Overall Length	Price
3060012	0 to 1/8"	0 to 3.2mm	4"/100mm			

## HAND DRILL AND PIN VISE WITH SWIVEL HEAD MASTER PIN VISE Superior Import



SERIES 306:



- Has two double-end collets with swivel head.
- Screw chuck tightly holds miniature tools.
- Bright Nickel plated finish.

Order No.	Capacity	Overall Length	Price
<b>3060011</b> 0 to 1/8" / 0 to 3.2mm		3-5/8"/95mm	

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#### **PIN VISES**

**STARRETT SERIES 162:** 





**PIN VISES** STARRETT **SERIES 166:** 





For holding wires, scriber points, small files, taps, drills, etc. A hole extends through full length of handle to hold wires of any length. Knurled handle is reduced in size so it may be rapidly rotated between thumb and finger when filing small work. Handle and binding nut are nickel plated.

Range, English	Range, Metric	Catalog No.	Order No.	Price
0 – .040"	0 – 1mm	162A	50599	
.030 – .062	0.8 – 1.6	162B	50600	
.050 – .125	1.3 – 3.2	162C	50601	
.115 – .187	2.9 - 4.8	162D	50602	
Set of all 4 sizes N	los. 162A, B, C, D	S162	50603	
without case Set of all 4 sizes in protective vinyl case		C162Z	50604	

#### **PIN VISES**

STARRETT **SERIES 240:** 





Smooth section on handle allows vise to be held in machine chuck or collets. Handle has hole through entire length to accommodate stock up to full size capacity so that long rods can be gripped close to the end. End of handle is knurled and has a smaller diameter than chuck which allows fast opening and closing and rapid rotation between the thumb and finger when used on small work. All four vises have heavy nickel plated finish.

			Range	
Catalog No.	Order No.	English	Metric	Price
240A 240B 240C 240D	51136 51137 51138 51139	.010055" .02575" .045135" .110200"	.25-1.4mm 0.64-1.9mm 1.2-3.4mm 2.8-5.1mm	
S240Z	51140	Set complete: .010200" consisting of No. 240A, B, C, D, in protective case		

## **PICKUP TOOL -DIAMOND HOLDER**







- Ideal tool for picking & holding small items.
- Chrome plated knurled body.
- Very handy tool for machinists, jewelers, assemblers and mechanics.

Order No.	Description	Length	Price
3091243	Stnd. pick-up-tool-3 prong	4-5/8"/115mm	

Same as Starrett Model 162 Series except made with an insulated PVC handle which is octagon in shape to prevent rolling when laid down.

Range, English	Range, Metric	Catalog No.	Order No.	Price
0 – .040" .030 – .062	0 – 1mm 0.8 – 1.6	166A 166B	50609 50610	
.050 – .125	1.3 – 3.2	166C	50611	
.115 – .187	2.9 – 4.8	166D	50612	
Set of all 4 Sizes, without case.	Nos. 166 A,B,C,D,	S166	50613	
Set of all 4 Sizes case	in protective vinyl	S166Z	50614	



- Very handy holding device with horse shoe base.
- Heavy, Non tipping base equipped with ball joint attachments which can position work at any angle.
- · Various types of clamps will fit on these bases.
- Handy for positioning pieces to be joined by solder or adhesive, freeing both hands.
- · Very useful for jewelers, assemblers, model makers and hobbyists.
- Available with or without Magnifier

Order No.	Description	Price
4420030 4420031	Third Hand Third Hand with 2-1/2"(63mm) Magnifier	

#### **MECHANICAL PICKUP SERIES 213:**



- Strong four prong steel jaws retrieve small items from hard-to-reach places.
- 24" (60cm) reach.
- · Smooth actuator for greater control.
- Chrome finish to prevent rust.
- · Flexible shaft to avoid obstacles.



Model No.	Order No.	Price
396	22145	

## MACHINE SHOP DISCOUNT SUPPLY

#### TWEEZER SET SERIES 639:

Industrial quality. 6 piece assortment in plastic pouch.





Order No. 6390000 **Price** 

#### **TWEEZERS**

SERIES 213:



General's precision tweezers are used for electronics, computer, instruments, radio and other small or subminiature assembly, servicing and repairs. The industrial tweezers of General's quality line are used by toolmakers, repair-people electronic assemblers and other professionals and the utility tweezers are used by mechanics, crafts-people and hobbyists.

General's quality tweezers for toolmakers,

#### **PRECISION TWEEZERS**

For electronic, computer, instrument, radio and other small or subminiature assembly, servicing and repairs.

423-C



423-3

401AA





401XX

403

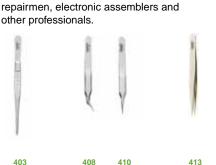


**INDUSTRIAL TWEEZERS** 



410

408



#### **UTILITY TWEEZERS**

Utility tweezers for mechanics, crafts people and hobbyists.



### **BOLEY PATTERN TWEEZERS**

423-7

- A fine quality tweezer for jewelers, watchmakers, instrument assemblers and crafts people.
- · For radio, television and other repairs.

Model No.	Point Style	Length	Order No.	Price
401AA	Strong bevel	5"	42240	

## **SWISS PATTERN TWEEZERS**

- Light tension and hardened points for subminiature assemblies.
- Stainless steel construction.

Model No.	Point Style	Length	Order No.	Price
423-3 423-3C 423-7	Very fine	4-1/8"	42249 42251 42257	

#### **Individual Styles** of Industrial Tweezers

Model No.	Point Style	Lgth		Price
401XX	Strong point	4-1/2"	42263	
403	Blunt serrated	6"	42266	
408	Sharp bent	4-1/4"	42271	
410	Narrow sharp	4-1/4"	42280	
413	Sharp	4-1/2"	9942289	
	·			

#### **Individual Styles Of Utility Tweezers**

·	Order		Point	Model
Price	No.	Length	Style	No.
	42291	6-1/2"	Blunt serrated	414
			(self closing)	
l l	42294	6-1/2"	Curved	415
,	42397	4-1/2"	Spade	416
)	42300	6-1/2"	Long straight	417
ļ	42294 42397	6-1/2" 4-1/2"	(self closing) Curved Spade	415 416

#### TWEEZER MAGNIFIER

- Useful for detailed projects.
- 5-Power lens.
- Stainless steel tweezer.
- Double hinged adjustable arm.
- Durable plastic handle and frame.

Model No.	Order No.	Price
425	42258	



#### SIX PIECE TWEEZER SET

- · Consists of six tweezers for home and industrial use.
- One each of Nos. 401XX, 403, 412, 414, 415, 417.
- In clear vinyl pouch.

Model No.	Order No.	Price
C421	42309	



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#### **EYE LOUPES**

**SERIES 510:** 

- High quality precise Eye loupes.
- Lens made of clear ground and polished optical glass.
- Superior Import
- Body made form black polished plastic.
- Hands Free magnification.
- Must for toolmakers, instrument assemblers, watchmakers and hobbyists.

Order No.	Mag. Power	Focal Length	Price
5100002	2x	4.5"/114mm	
5100025	2.5x	4.0"/102mm	
5100003	3x	3.5"/89mm	
5100035	3.5x	3.0"/76mm	
5100004	4x	2.5"/63mm	
5100045	4.5x	2.25"/57mm	
5100005	5x	2.0"/50mm	
5100007	7x	1.5"/38mm	
5100010	10x	1.0"/25mm	
5100110	10x Double lens	1.0"/25mm	
5100050	5PC set of 2x, 3		
	10x(double lens	) eye loupes	

## **FOLDING POCKET** MAGNIFIERS - LEATHER CASE Superior Import



SERIES 510:

- · Handy Pocket magnifiers.
- Ground and polished optical glass.
- · Leather pouch serves both as a handle and as a protective case.

Order No.	Mag. Power	Focal le	ngth	Price
5100040	4X	2-1/2"	6.3mm	

## **FOLDING POCKET MAGNIFIERS - TRIPLET**

#### **SERIES 510**

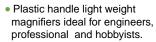
- High power inspection magnifiers for machinists, laboratory technicians and students.
- Made of three optical lenses.
- Lens can be used in combination to produce different powers.
- Swing away case of tough durable plastic.



Order No.	Mag. Range	Focal Length Price	Price
5100047	4x, 7x, 10x	2.5,1.5,1.0" 6, 3.8, 2.5cm	

#### **ROUND MAGNIFIERS**

SERIES 510:



- Ideal reading glass assuring edge to edge clarity.
- Available in different sizes and magnifications.



[	Order No.	Length Diameter	Focal Length	Power	Price
5 5	5100112 5100250 5100212 5100375 5104100	1-1/2"40mm 2"/50mm 2-1/2"/60mm 3"/75mm 4"/100mm	4"/10CM 6"/15CM 6"/15CM 8"/20CM 8"/20CM	3.5x 2.5x 2.5x 2.25x 2.25x 2.25x	
5	5104000	4 PC set consisting of 1-1/2" (40mm), 2"(50mm) 3" (75mm), 4" (100mm) lens diameter magnifiers			

#### **FLASHLIGHT MAGNIFIER SERIES 510:**

Volt batteries.



This magnifier with 10x magnification is an excellent instrument. It features a built-in lighting device that works on two 1.5

Order No. 1001966

**Price** 



## MAGNIFIERS





General's Magnifiers are used by toolmakers, jewelers, instrument assemblers, laboratory technicians, engineers, mechanics and inspectors who need sharp clear magnification without eyestrain.

#### **4 Power Pocket Illuminated Magnifier**

- Handy 4 power magnifier has plastic body and lens.
- Comes with 2 AAA batteries and No. 222 Bulb.



Order No.	Model No.	Price
42456	553	1 1100





#### SERIES 213:



General's Magnifiers are used by toolmakers, jewelers, instrument assemblers, laboratory technicians, engineers, mechanics and inspectors who need sharp clear magnification without eyestrain.

#### Oblong Magnifying Reading Glass

GENERAL

- Powerful ground and polished glass lens.
- Lens is 2" x 4" with 1.25 power magnification.
- Plastic frame and ribbed handle.

Order	Model	Focal	Price
No.	No.	Lgth.	
42437	548	8"	

#### 4" Illuminated Magnifier

- 4" diameter with 3 power lens covers large areas of print.
- 5 power 2" dia. bifocal lens insert gives even greater magnification.
- Bulb gives wide circle of illumination.
- Plastic body and optical plastic lens.

Order

No.

42414

• Replaceable bulb and 2 C batteries included.

Order	Model	Focal	Price
No.	No.	Lgth.	
42462	554	3 - 1/3"	

Model

No.

538

**Focal** 

Lgth.

2"

**Price** 

#### Oblong Illuminated Magnifier

- Lens measures
   2" x 4" for distortion-free magnification of large areas.
- Reversible light reflector adapts for right-hand or left-hand use.
- 2.5 power shatterproof lens, with 5 power
  2" dia. bifocal insert.
- Replaceable bulb and 2 AA batteries are included.

Order No.	Model No.	Focal Lgth.	Price
42509	565	4"	

#### 5-1/2" Magnifier

- Economical and versatile
   magnifier for laboratory and
   industrial uses, for do-ityourselfers, mechanics and inspectors.
- 2" diameter with 4 power lens.
- Lightweight, durable 1- piece molded plastic frame.



## **INSPECTION MIRRORS AND MAGNIFIERS**

**SERIES 213:** 



Inspection mirrors facilitate inspection of inaccessible workpieces and machines by toolmakers, assemblers, inspectors and mechanics. Fully polished mirrors are enclosed in plated holders which are attached to knurled handles with ball and socket joints. Telescoping arms and vinyl cushion grip handles are offered on some mirrors.

### 2.5 POWER POCKET MAGNIFIER

- Has 2.5 power ground and polished optical glass.
- Folds into case for storage.
- 4" Focal Length

Order No.		Price
42400	Simulated Leather Case	

## MAGNETIC BASE INSPECTION MIRROR

- Adjustable 3-1/2" x 2" oblong inspection mirror mounted to a permanent magnet.
- Attaches to any steel or iron machine, tool, appliance or other equipment.
- Has wing nut ball joint adjustment.

560/570



Model No.	Order No.	Price
MB560	42475	

#### **EYE LOUPES**

- For toolmakers, jewelers, instrument assemblers and others who need sharp, clear magnification without eyestrain.
- Clear optical glass lenses are ground and polished.
- 1" diameter lens.



Model No.		Focal Length	Order No.	Price
527	5.0	2"	42339	

#### **FOLDING POCKET MAGNIFIERS**

- Fine quality magnifiers for laboratory technicians, engineers, mechanics and inspectors.
- Case and lens rims are made of black molded plastic.
- Available in single lens and double lens models.



	Model No.	Mod.	Ind. Power	Total Power	Lens Dia.	Focal Lgth.	Order No.	Price
ı	533	Single	4.0	4.0	1"	2.5"	42403	
ı	536	Double	4.0	8.0	1"	1.25"	42409	
ı	537	Double	3.0	6.0	1-1/4"	1.6"	42412	

## 555 / 557 / 577 INSPECTION MIRRORS

	HOI ECTION MINNON					
Model No.	Size	OAL	Order No.	Price		
557 558	1-1/4" Dia. 2-1/4" Dia. 1x2" Oval 3-1/2"x2" Oblong	8" 10-1/2"-15" 9" 11-1/2"-16"	42471			

558

#### These mirrors facilitate inspection of inaccessible workpieces and machines by tool makers, assemblers, inspectors and mechanics.

- Fully polished mirrors are enclosed in plated holders which are attached to knurled handles with ball and socket joints.
- $\bullet$  Nos. 557/577 and 560/570 have telescoping arms and vinyl cushion grip handles.

#### **LEXAN INSPECTION MIRRORS**

Model No.	Size	OAL	Order No.	Price
		10-1/2"-15" 11-1/2"-16"		

## REPLACEMENT MIRRORS With Frames

Model	Order	
No.	No.	Price
557RMF for No. 557	42481	
560RMF for No. 560	42484	



#### **EDROY PRODUCTS**

SERIES 961:



#### **MAGNI-FOCUSER®**

#### Features:

- No center post allows 20% increased viewing.
- Shatter and scratch resistant lens.
- Flips up for instant switch from magnification to regular vision.
- Headband is adjustable to head size.
- Lens plates interchangeable, and can be purchased separately.
- Lens size 3-1/8x1-1/8".



	Working Distance	Diopter	Order No.	Price
1.50X	20"	+2D	9610102	
1.75X	14"	+3D	9610103	
2.00X	10"	+4D	9610104	
2.25X	8"	+5D	9610105	
2.75X	6"	+7D	9610107	
3.50X	4"	+10D	9610110	

#### **Auxiliary Lens Model**

Power	Working Distance w/o Aux.	Distance	Order No.	Price
4.25X 4.50X 4.75X 5.25X	14" 10" 8" 6"	3.5" 3"	9610113 9610114 9610115 9610117	

### MAGNI-SPECS™

#### Features:

- Only 1.2 ounces.
- ABS brow bar, nose piece and post Zyl temples.
- Can be worn alone or over eyeglasses.
- Lens flip out of line of sight.
- Hard protective case included.



Power	Working Distance	Diopter	Order No.	Price
1.50X	20"	+2D	9610002	
1.75X	14"	+3D	9610003	
2.25X	8"	+5D	9610005	
2.75X	6"	+7D	9610007	
3.50X	4"	+10D	9610000	

## MAGNI-FOCUSER® WITH LIGHT

Same features as Magni-focuser but with 6,000 candle Power Xenon Lazer Spot® Super Beam outshines all others. Burn time 6-7 Hours. Includes AA Energizer® Alkaline Batteries.



	Working		Order	
Power	Distance	Diopter	No.	Price
1.50X	20"	+2D	9611022	
1.75X	14"	+3D	9611033	
2.00X	10"	+4D	9611044	
2.25X	8"	+5D	9611055	
2.75X	6"	+7D	9611077	
3.50X	4"	+10D	9611100	
I	1			

#### **Auxiliary Lens Model**

	Working Distance w/o Aux.	Distance	Order No.	Price
4.25X 4.50X 4.75X 5.25X	14" 10" 8" 6"	3.5" 3"	9610133 9610144 9610155 9610177	

#### SPRING CLIP OPTICAID®

Same as above but with spring clip.



Power	Working Distance	Diopter	Order No.	Price
1.50X	20"	+2D	9610912	
1.75X	14"	+3D	9610913	
2.25X	8"	+5D	9610915	
2.75X	6"	+7D	9610917	
3.50X	4"	+10D	9610910	

#### **OPTICAID®**

For use with any eyeglass frame. Flexible wire clip. Case included. The #1 clip-on magnifier since 1971.

- Opthalmic quality
- Hard-coated scratch resistant acrylic lenses
- Comfortable
- Lightweight
- Reduces eye fatigue
- Swings out of line of vision when not in use



	Working		Order	
Power	Distance	Diopter	No.	Price
1.50X	20"	+2D	9610712	
1.75X	14"	+3D	9610713	
2.00X	10"	+4D	9610714	
2.25X	8"	+5D	9610715	
2.75X	6"	+7D	9610717	
3.50X	4"	+10D	9610710	
i		i		

SEE MORE MICROSCOPES, COMPARATORS, AND MAGNIFIERS IN THE PRECISION TOOL

PRECISION TOOL SECTION





## MACHINE SHOP DISCOUNT SUPPLY

## COMBINATION WRENCHES AND SETS SERIES 871:







5 PIECE Order N				
Order No.	Description	Order No.	Description	
20206 0920208	5/16" 3/8"	0920211	9/16"	
20209 20210	7/16" 1/2"		Pouch	

7 PIECE (12 Pt.) SET Order No. 29014 Price				
Order No.	Description	Order No.	Description	
0920208 20209 20210	3/8" 7/16" 1/2"	0920213 20214	11/16" 3/4"	
0920211 20212	9/16" 5/8"	Tool Roll		

14 PIECE (12 Pt.) SET Order No. 29010 Price				
Order No.	Description	Order No.	Descri	ption
0920208 20209 20210 0920211 0920212 0920213 20214	3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4"	0920216 0920217 0920219 0920218 0920220 20222	7/8 15/1 1-1/ 1' 1-1/ 1-1/	6" 16" ⁄8"
0920215	3/16"	Tool Roll		

	11 PIECE (12 Pt.) METRIC SET Order No. 29017 Price						
Order N	10. 29017		Price				
Order No.	Description	Order No.	Description	1			
20307 20308 20309 20310 20311	7mm 8mm 9mm 10mm 11mm	20314 20315 20317 20319	14mm 15mm 17mm 19mm				
20311 20312 20313	12mm 12mm 13mm		Tool Roll				

18 PIECE (12 Pt.) INCH / METRIC SET Order No. 29020 Price					
Order No.	Description	Order No.	Description		
20470 20471 20472 20473 20474 20475 20476 20477 20478 20416	1/4" 5/16" 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4" 10mm	20417 20418 20419 20420 20421 20422 20423 20424 High Densit	11r 12r 13r 14r 15r 16r 17r 18r <b>y Polyethyl</b>	nm nm nm nm nm nm	

12 PT.	12 PT. COMBINATION WRENCHES						
		Dime	ensions	s (Inch)			
Size	Α	В	С	D	E	Order No.	Price
1/4"	3.99	.54	.18	.38	.23	20204	
5/16"	4.38	.72	.20	.47	.25	20206	
3/8"	5.32	.81	.20	.56	.29	0920208	
7/16"	5.88	.87	.24	.66	.30	20209	
1/2"	6.54	.98	.27	.75	.32	20210	
9/16"	7.13	1.14	.29	.84	.35	0920211	
5/8"	8.00	1.28	.32	.94	.39	0920212	
11/16"	8.81	1.39	.35	1.03	.42	0920213	
3/4"	9.67	1.50	.36	1.06	.45	20214	
13/16"	10.58	1.69	.37	1.18	.48	0920215	
7/8"	11.56	1.69	.38	1.28	.48	0920216	
15/16"	12.58	1.86	.39	1.37	.51	0920217	
1"	13.56	1.94	.42	1.47	.55	0920218	
1-1/16"	14.69	2.16	.44	1.61	.55	0920219	
1-1/8"	15.63	2.20	.48	1.65	.58	0920220	
1-1/4"	16.94	2.49	.51	1.82	.58	20222	
1-5/16"	18.31	2.52	.53	1.92	.62	20223	
1-3/8"	20.35	2.88	.78	2.16	.94	20224	
1-7/16"	20.35	2.88	.78	2.16	.94	20225	
1-1/2"	20.35	2.88	.78	2.16	.94	20226	
1-5/8"	24.08	3.44	.79	2.56	.98	20228	
1-11/16"		3.44	.79	2.56	.98	20229	
1-3/4"	26.09	3.70	.83	2.75	1.01	20230	
1-13/16"		3.70	.83	2.75	1.01	20231	
1-7/8"	27.10	3.88	.86	2.94	1.04	20232	
2"	28.75	4.88	.88	3.50	1.31	20234	
2-1/16"	28.75	4.88	.88	3.50	1.31	20235	
2-1/8"	28.75	4.88	.88	3.50	1.31	20236	
2-3/16	28.75	4.88	.88	3.50	1.31	20237	
2-1/4"	28.75	4.88	.88	3.50	1.31	20238	
2-3/8"	28.75	4.88	.88	3.50	1.31	20239	
2-1/2"	28.75	4.88	.88	3.50	1.31	20240	

12 PT	12 PT. METRIC COMBINATION WRENCHES						
Size	[	Dimens	ions (In	ch)			
mm	Α	В	C	D	Е	Order No.	Price
7	4.24	.53	.19	.44	.23	20307	
8	4.38	.72	.20	.47	.25	20308	
9	4.91	.70	.20	.52	.26	20309	
10	5.55	.81	.22	.62	.29	20310	
11	5.88	.87	.24	.66	.30	20311	
12	6.27	.94	.25	.72	.32	20312	
13	6.54	.98	.27	.75	.32	20313	
14	7.13	1.14	.29	.84	.35	20314	
15	7.59	1.20	.30	.90	.37	20315	
16	8.00	1.28	.32	.94	.39	20316	
17	8.45	1.36	.33	.99	.40	20317	
18	8.81	1.39	.35	1.03	.42	20318	
19	9.67	1.50	.36	1.06	.45	20319	
20	10.30	1.56	.36	1.13	.46	20320	
21	10.95	1.63	.37	1.21	.47	20321	
22	11.56	1.69	.38	1.28	.48	20322	
23	12.20	1.78	.38	1.33	.50	20323	
24	12.80	1.86	.39	1.38	.51	20324	
25	13.56	1.94	.42	1.47	.55	20325	
26	14.12	2.16	.44	1.61	.55	20326	
27	14.69	2.16	.44	1.61	.55	20327	
28	15.25	2.20	.48	1.65	.58	20328	
29	15.37	2.43	.52	1.78	.58	20329	
30	16.30	2.43	.52	1.78	.58	20330	
32	16.94	2.49	.51	1.82	.58	20332	

## Tel 201.518.8472 / 800.388.0459 (USA & CANADA) / Email sales@msdiscounttool.com



#### **WRENCHES**

SERIES 903:





#### GEARED HEAD BOX



- Access: The small head design of the Geared Box Wrench allows access into tight areas and the 72 teeth ratcheting action allows the wrench to be turned easily while working in those tight areas. This is a combination guaranteed to make your job easier.
- Speed: The short ratcheting arc allows the fastener to be turned in confined areas, which helps you get your work done quickly.
- Strength: When you need to break loose tough fasteners or really tighten down a nut, the traditional box end - with its lobular design keeps the wrench from slipping. And the long pattern forging gives you the extra leverage you need.

#### **Individual Sizes**

Size	Order No.	Price	Size	Order No.	Price
3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4"	0027510 0027511 0027512 0027513 0027514 0027515 0027516		10mm 11mm 12mm 13mm 14mm 15mm 16mm 17mm	9954510 9954511 9954512 9954513 9954514 9954515 9954516 9954517 9954518	
			19mm	9954519	

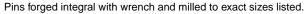
- Made in the U.S.A.: The geared box Wrench has All Steel Construction and is forged and heat treated in the USA using high alloy, domestically produced steel.
- Safety: The one piece design of the Geared Box Wrench won't split
  apart like a traditional ratcheting box wrench and the closed head design
  keeps out dirt and debris.
- All Steel Construction: The Geared Box Wrench includes a precision machined steel insert ring.
- Lifetime Warranty: If any Armstrong tool ever fails to give complete satisfaction, return it to your Armstrong Distributor and it will be repaired or replaced free of charge.

#### Sets (Supplied in vinyl roll)

Description	Order No.	Price
7 pc. Fractional: 3/8", 7/16, 1/2", 9/16", 5/8", 11/16", 3/4"	0027609	
10 Pc. Metric: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	9954609	
17 Pc. Combination Fractional/Metric: 3/8", 7/16", 1/2", 9/16, 5/8", 11/16", 3/4" 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	0027708	

#### **ADJUSTABLE FACE SPANNER**

		Pin Specifications				
Order No.	Capacity Inches	Extreme Diameter Inches	Height Inches	Lgth Inches	Weight Lbs.	Price
34151 34154 34157	2 3 4	3/16 1/4 5/16	1/8 3/16 1/4	6-3/8 8-1/4 10-3/8	.32 .57 .99	





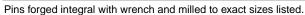
#### **ADJUSTABLE HOOK SPANNER**



	Capacity	Hook Specifica	tions			
Order No.	Range for Diameters Inches	Thickness Inches	Depth Inches	Lgth Inches	Weight Lbs.	Price
34301	3/4 - 2	11/32	1/8	6-3/8	.27	
34305	1-1/4 - 3	13/32	5/32	8-1/8	.53	
34307	2 - 4-3/4	15/32	3/16	11-3/8	1.06	
34310	4-1/2 - 6-1/4	15/32	1/4	12-1/8	1.23	
34313	6-1/8 - 8-3/4	15/32	5/16	13-3/4	1.36	

#### **ADJUSTABLE PIN SPANNER**

ADOGGIADEE I III GI AIIIIEII							
	Capacity		Pin Spec	cifications			
Order No.	Range for Diameters Inches	Hook Thickness Inches	Dia. Inches	Height Inches	Lgth Inches	Weight Lbs.	Price
34351	3/4 - 2	11/32	1/8	1/8	6-3/8	.27	
34354	3/4 - 2	11/32	3/16	5/32	6-3/8	.27	
34358	1-1/4 - 3	13/32	3/16	3/16	8-1/8	.53	
34361	1-1/4 - 3	13/32	1/4	7/32	8-1/8	.49	
34363	2 - 4-3/4	15/32	1/4	1/4	11-3/8	1.07	
34366	4-1/2 - 6-1/4	15/32	3/8	1/4	12-1/8	1.20	









## **HAND TOOLS**

**SERIES 442:** 



### **BALL PEIN HAMMERS WOOD HANDLES**



- Hardened and tempered on striking face
- Excellent wedging for longer life
- Faces polished
- Hammer perfectly balanced
- Seasoned wood handle

Size	Order No.	Price
1/16 lb. 1/8 lb. 1/4 lb. 1/2 lb. 3/4 lb. 1 lb. 1-1/2 lb. 2 lb. 3 lb.	4420219 4420220 4420221 4420222 4420223 4420224 4420225 4420226 4420227	

### **RUBBER MALLET - 16 oz**



Non-mar smooth finish head of finest quality rubber. Smooth hardwood handle.

Order No. 2470000	Price	
-------------------	-------	--

#### **DEAD-BLOW HAMMERS**

Made of extra durable polyurethane



Face Dia.	Head Lgth	Weight	Order No.	Price
1-1/4"	3-1/8"	13 oz.	4420080	
1-3/4"	3-3/4"	21 oz.	4420148	
2"	4-1/8"	26 oz.	4420200	
2-1/4"	4-5/8"	45 oz.	4420216	
2-3/4"	5-3/8"	53 oz.	4420248	

#### JEWELER'S SCREWDRIVERS **SERIES 213:**



High quality screwdrivers ideal for hobbyists, technicians, mechanics and do-it-yourselfers. Also used by jewelers, watchmakers, instrument makers, subminiature parts assemblers and model makers.



#### Four Bit Technician Screwdriver

- High quality screwdriver ideal for hobbyist, technician, mechanic and do-it-yourselfer.
- Four heat treated bits: Nos. 0 and 1 crosspoint, .125 and .100 straight blade.
- Bits store in handle.
- Knurled aluminum body with swivel head.
- Steel collet for greater strength.
- Overall size is 3/8" x 6-1/2".

Model No.	Order No.	Price
608	42561	

#### Jeweler's Screwdriver Set

- Nickel plated blade sizes: .100", .080", .070", .055", .040", .025".
- Screw chucks have indentification rings showing blade size.
- Overall length 3-7/8".
- Conforms to government specifications GGG-S-1808.
- Plastic case.



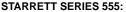
### **Individual Screwdrivers**

Model No.	Blade Width	Order No.	Price
600-0 600-1 600-2 600-3 600-4 600-5	.100 .080 .070 .055 .040	42515 42518 42521 42524 42527 42530	

#### Set of Six

OCT OF OIX			
Model No.	Order No.	Price	
SPC600	42568		

## **JEWELER'S SCREWDRIVERS**









- Screwdrivers are made for relatively small and delicate work.
- Bodies are made from steel, nicely knurled and are either nickel or chrome plated.
- Blades are replaceable and are made from the best quality steel, properly tempered and nickel plated.
- The swivel knobs are concave to fit the finger and are hexagonal in shape to prevent rolling when laid down.
- When not in use, blades can be reversed into the screwdriver body.
- Furnished in vinyl case.
- Approximate length 3-3/4"(95mm)

Blade Width- Inch(mm)	Catalog No.	EDP No.	Price
.025"(0.6mm)	555AA	52549	
.040"(1mm)	555A	52550	
.055"(1.4mm)	555B	52551	
.070"(1.8mm)	555C	52552	
.080"(2mm)	555D	52553	
.100"(2.5mm)	555E	52554	
#0 Phillips	555F	52561	

#### **SETS**

Description	Catalog No.	EDP No.	Price
Set of 6 – Nos. 555AA, A, B, C, D, E	S555Z-6	52564	
Set of 7 – Nos. 555AA, A, B, C, D, E, F	S555Z-7	52566	



## **SCREWDRIVERS**

**SERIES 802:** 



#### PRECISION SCREWDRIVERS

Precision screwdrivers have a tapered handle that allows rapid rotation. Precision handle, high quality plastic. Rotating cap for precise turning and control with fingertip. Blade CVM steel, hardened, chrome-plated. Precision ground tips for exact fit.

Vapor chromed non-slip surface.

vapor critor	ned non-slip surface.		
Order No.	Description	Price	
26190	7 pc. Slotted/Phillips Set		
	Slotted sizes: 1.5, 2.0, 2.5, 3.0mm		M
00000	Phillips sizes: 00,0,1		(1)
26390	7 pc. Hex driver metric		
	Hex metric sizes: 0.7, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0mm		
26391	8 pc. Hex driver inch		
	Hex inch sizes: .028, .035, .050,		
	1/16, 5/64, 3/32, 7/64, 1/8"		
26790	6 pc. Torx® Set		
	Torx® sizes: T6, T7, T8, T9,T10, T15		
26008	SL 1/32" (.80mm) x 1.6" (40mm)		Œ
26010	SL .039" (1.0mm) x 1.6" (40mm)		Ë.
26012	SL 3/64" (1.2mm) x 1.6" (40mm)		
26015	SL 1/16" (1.5mm) x 1.6" (40mm)		2
26018 26020	SL .070" (1.8mm) x 1.6" (40mm) SL 5/64" (2.0mm) x 1.6" (40mm)		S
26020	SL 5/64" (2.0mm) x 2" (50mm)		
26023	SL 5/64" (2.0mm) x 4" (100mm)		
26025	SL 3/32" (2.5mm) x 2" (50mm)		
26027	SL 3/32" (2.5mm) x 4" (100mm)		
26030	SL 1/8" (3.0mm) x 2" (50mm)		
26032	SL 1/8" (3.0mm) x 2.4" (60mm)		
26033	SL 1/8" (3.0mm) x 4" (100mm)		
26034	SL 1/8" (3.0mm) x 6" (150mm) SL 9/64" (3.5mm) x 2.4" (60mm)		
26035 26040	SL 5/32" (4.0mm) x 2.4" (60mm)		
26041	SL 5/32" (4.0mm) x 4" (100mm)		
26042	SL 5/32" (4.0mm) x 6" (150mm)		
26100	PH 00 x 1.6" (40mm)		S
26102	PH 000 x 1.6" (40mm)		1
26105	PH 0 x 2" (50mm)		Ξ.
26108	PH 0 x 3" (75mm) PH 1 x 2.4" (60mm)		Ξ.
26110 26113	PH 1 x 3.1" (80mm)		<u>α</u>
9926115	PH 1 x 6" (150mm)		
26307	Hex .028" (0.7mm) x 1.6" (40mm)		×
26309	Hex .035" (0.9mm) x 1.6" (40mm)		뿦
26313	Hex .050" (1.27mm) x 1.6" (40mm)		*
26316	Hex 1/16" x 2" (50mm)		
26320	Hex 5/64" (2.0mm) x 2" (50mm)		
26323 26327	Hex 3/32" x 2.4" (60mm) Hex 7/64" x 2.4" (60mm)		
26331	Hex 1/8" x 2.4" (60mm)		
26703	TX T3 x 1.6" (40mm)		×
26704	TX T4 x 1.6" (40mm)		TORX
26705	TX T5 x 1.6" (40mm)		Ĕ
26706	TX T6 x 1.6" (40mm)		
26707	TX T7 x 1.6" (40mm)		
26708 26709	TX T8 x 1.6" (40mm) TX T9 x 2" (50mm)		
26709 26710	TX T10 x 2" (50mm)		
26715	TX T15 x 2.4" (60mm)		
26720	TX T15 x 2.4" (60mm) TX T20 x 2.4" (60mm)		

While we show only the popular items we can supply their entire range of products; please inquire.

#### SOFTFINISH SCREWDRIVERS

Wiha SoftFinish Slotted/Phillips screwdrivers have ergonomic cushion grip handles, multicomponent. Round blade, high alloy CVM steel, hardened, chrome-plated. \*Set

includes: Slotted sizes: 3.0, 4.0, 6.5mm Phillips sizes: 1, 2



Order No.	Description	Price	
30295	5 pc. Slotted/Phillips Set*		
30205	SL 1/8" (3.0mm) x 4" (100mm)		
30210	SL 9/64"(3.5mm) x 4" (100mm)		ш
9930215	SL 5/32"(4.0mm) x 4" (100mm)		F
30217	SL 5/32"(4.0mm) x 6" (150mm)		SLOT
30220	SL 7/32"(5.5mm) x 5" (125mm)		7
30223	SL 1/4" (6.5mm) x 4" (100mm)		S
30225	SL 1/4" (6.5mm) x 6" (150mm)		
9930227	SL 5/16"(8.0mm) x 6" (150mm)		
30230	SL 5/16"(8.0mm) x 7" (175mm)		
30235	SL 3/8" (10.0mm) x 8" (200mm)		
31105	PH 0 x 2.4" (60mm)		S
31110	PH 1 x 3.1" (80mm)		₽
31112	PH 1 x 8" (200mm)		H
31114	PH 1 x 12" (300mm)		
	PH 2 x 4" (100mm)		표
31117	PH 2 x 8" (200mm)		-
31118	PH 2 x 12" (300mm)		
31120	PH 3 x 6" (150mm)		

## **MICROFINISH SCREWDRIVERS**

Wiha MicroFinish Slotted/Phillips screwdrivers have ergonomic nonslip grip handles, cellulose-acetate, impact resistant. Blade high alloy CVM steel, hardened. chrome-plated. Exact fit precision ground tips. \*Set includes: Slotted sizes: 4.0, 5.5, 8.0mm. Phillips sizes: 1,2



Order No.	Description	Price	
52090	5 pc. Slotted/Phillips Set*		
9952005	SL 5/32" (4.0mm) x 4" (100mm)		6
9952010	SL 5/32" (4.0mm) x 6" (150mm)		Ē
9952020	SL 7/32" (5.5mm) x 5" (125mm)		F
52025	SL 7/32" (5.5mm) x 6" (150mm)		Ċ
52035	SL 1/4" (6.5mm) x 6" (150mm)		Ū
9952040	SL 5/16" (8.0mm) x 6" (150mm)		٦
52050	SL 3/8" (10.0mm)x 8" (200mm)		
	PH 1" x 3.1" (80mm)		U
	PH 1" x 8" (200mm)		9
	PH 2" x 4" (100mm)		Ξ
	PH 2" x 8" (200mm)		Ę
52125	PH 3" x 6" (150mm)		ō

#### **MULTI-BIT SCREWDRIVER SET**

Wiha PowerHandle, cellulose-acetate, impact resistant. Snap lock rotatable cap. Chambered bit holder equipped with transparent selector and 6 bits. Shaft CVM steel, hardened, chromeplated. 1/4" bit holder, stainless steel.



Slotted sizes include: 5.5, 6.5, 8.0mm Phillips sizes include: 1, 2, 3

Order No.	Description	Price
38006	6 pc. Slotted/Phillips Set	



## **HAND TOOLS**

**SERIES 871:** 





## **8 PIECE-SCREWDRIVER SET IN STORAGE TRAY**

**Order No. 30847** 

**Price** 

Size/ Length

Description

3/16" x 3" #1 x 3" #2 x 4" #3 x 6" 1/4" x 4" 5/16" x 6"

1/4" x 1-1/2" #2 x 1-1/2"

Cabinet Tip - Slotted Cabinet Tip - Slotted
Phillips Tip
Phillips Tip
Phillips Tip
Round Blade - Slotted
Round Blade - Slotted
Slotted Stubby



#### SLOTTED STUBBY SCREWDRIVER

Phillips Stubby



Description 1/4" x 1-1/2" 3-1/2"

Overall Length Order No. 30844

**Price** 

## PHILLIPS STUBBY SCREWDRIVER



**Description** Overall Length #2 x 1-1/2"

3-1/2"

Order No. 30845

**Price** 

## **7 PIECE - METRIC SOLID SHAFT NUT DRIVER**

SET IN POUCH Order No: 30821

**Price** 



Size (mm)	Description	Order No.	Price
5	Nut Driver 5mm	30854	
6	Nut Driver 6mm	30856	
7	Nut Driver 7mm	30857	
8	Nut Driver 8mm	30858	
9	Nut Driver 9mm	30859	
10	Nut Driver 10mm	30860	
11	Nut Driver 11mm	30861	

While we show only the most popular ( items we can supply their entire range of products; please inquire.

### **CABINET TIP SLOTTED SCREWDRIVER**



#### **PHILLIPS TIP SCREWDRIVER**



Description	Overall Length	Order No.	Price
#0 X 2-1/2" w/clip	4-3/8"	30835	
#1 X 3"	6-1/2"	30836	
#2 X 4"	7-1/2"	30837	
#3 X 6"	9-1/2"	30838	

#### ROUND BLADE SLOTTED SCREWDRIVER



Description	Overall Length	Order No.	Price
1/4" x 4"	8-1/4"	30839	
1/4" x 6"	10-1/4"	30840	
5/16" x 6"	10-3/4"	30841	

#### SQUARE BLADE SLOTTED SCREWDRIVER



Description Overall Length Order No. Price 10-3/4" 30842 5/16" x 6" 3/8" x 8" 30843 13"

## **7 PIECE - SOLID SHAFT NUT DRIVER SET** IN POUCH Order No. 30820 Price



Size	Description	Order No.	Price
3/16" 1/4" 5/16" 11/32" 3/8" 7/16" 1/2"	Nut Driver 3/16" Nut Driver 1/4" Nut Driver 5/16" Nut Driver 11/32" Nut Driver 3/8" Nut Driver 7/16 Nut Driver 1/2"	30802 30804 30806 30807 30808 30809 30810	



## **SCREWDRIVERS**

SERIES 903:



#### STANDARD TIP, SQUARE SHANK



Tip Width x	Overall	Order	Price
Blade Length	Length	No.	
1/4 x 1-5/16"	3-1/16"	66541	
1/4 x 4	8-1/4	66544	
3/8 x 12	17-7/16	66546	
5/16 x 6	10-7/8	66547	
3/8 x 8	12-7/8	66550	
3/8 x 10	14-7/8	66553	

#### STANDARD TIP, ROUND SHANK



Tip Width x	Overall	Order	Price
Blade Length	Length	No.	
3/16 x 3"	7-3/4"	66502	
1/4 x 4 (.037")*	8-29/32	66505	
1/4 x 4 (.040")*	8-1/4	66501	
5/16 x 6	10-7/8	66504	
3/8 x 10	15-7/16	66509	
3/8 x 12	17-7/16	66510	
3/8 X 8	12-7/8	66507	

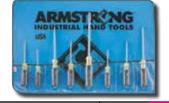
<sup>\*</sup>Tip Thickness

### **8 PIECE SCREWDRIVER SET**

Contains (5) Slotted, Round Shank and (3) Phillips sizes in vinyl roll. **CUSHION GRIP** 

Slotted	Phillips	
1/4 x 4" (.040")* 3/16 x 3 5/16 x 6 1/4 x 4 (.037")* 3/8 x 8	1 x 3" 2 x 4" 3 x 6"	

<sup>\*</sup>Tip Thickness



<b>O</b> I		00040	D 1
Order	NO.	66612	Price

#### **CABINET TIP, ROUND SHANK**



Tip Width x	Overall	Order	Price
Blade Length	Length	No.	
3/16 x 3"	6-5/8"	66561	
3/16 x 4	7-3/4	66563	
3/16 x 6	8-5/8	66564	
3/16 x 8	11-5/8	66567	
3/16 x 10	13-5/8	66570	

### PHILLIPS TIP, ROUND SHANK



Tip Size X	Overall	Order	Price
Blade Length	Length	No.	
#2 x 1-5/16"	3-1/16"	66521	
#1 x 3	6-5/8	66524	
#2 x 4	8-1/4	66527	
#2 x 6	10-29/32	9966526	
#2 x 12	16-29/32	66528	
#3 x 6	10-7/8	66530	

## **MULTI-BIT SCREWDRIVER**

**SERIES 526:** 

This 5-in-ONE offers four different bits in one screwdriver plus a nut driver. The bits



reverse in the tube and the tube reverses in the handle. There is a 1/4" & 3/16" slotted bit and a #1 & #2 phillips bit. The chrome/nickel plated tube is a hex tube to create a 5/16" nut driver on either end. The handle has a wide diameter for a better, more comfortable grip.

Order No. 22000	Price	
-----------------	-------	--

#### **DEAD-BLOW HAMMERS SERIES 855:**

- One-piece construction
- No exposed metal on handles or heads
- No mark, no spark, complete protection and safety for machinery, product and worker
- Trucothane ™ is custom formulated to set a new standard for soft face performance and durability. Eliminates mushrooming,

splitting, absorption of liquids, contamination and chip pickup in faces

- Outlasts rawhide, rubber, brass, lead, nylon and other plastic-type heads by 10-20 times
- Exclusive textured, nonslip, comfort contoured handle and safety flanged butt provide sure grip and reduce fatigue



#### **STANDARD-HEAD**

Face Dia.	Head Lgth	Weight	Order No.	Price
1-1/4"	3-1/8"	13 oz.	4249000	
1-3/4" 2	" 3-3/4"	21 oz.	4249011	
2-1/4"	4-1/8"	26 oz.	4249022	
2-3/4"	4-5/8"	45 oz.	4249033	
	5-3/8"	53 oz.	4249044	









#### **SLIM-LINE**

Face Dia.	Head Lgth	Weight	Order No.	Price
7/8"	2-7/8"	8 oz.	4239050	
1-1/4"	4-3/16"	18 oz.	4239061	
1-1/2"	4-1/4"	22 oz.	4239072	
1-3/4"	5-3/16"	26 oz.	4239083	

## NE SHOP DISCOUNT SUPPLY

## **RAWHIDE MALLETS**

**SERIES 416:** 





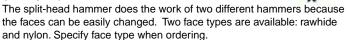
Garland's all-rawhide mallets are made of tough, long-wearing, water buffalo rawhide. They're ideal for use on broad-faced striking surfaces in a broad range of applications.

-2	O.
OR	OTHER
FINE	BRAND

Face Dia.	Weight	Order No.	Price
1"	2 oz.	4211000	
1-1/4"	4 oz.	4211001	
1-1/2"	6 oz.	4211002	
1-3/4"	9 oz.	4211003	
2"	11 oz.	4211004	
2-3/4"	22 oz.	4211005	
2-3/4"	24 oz.	4211006	



## SPLIT-HEAD HAMMERS



**Hammer with Rawhide Faces** 

Face		Order	
Dia.	Weight	No.	Price
1-1/4"	1-1/2 lbs	4431001	
1-1/2"	2 lbs	4431002	
1-3/4"	2-3/4 lbs	4431003	
2"	4 lbs	4431004	
2-3/4"	6-1/2 lbs.	4431005	



OR OTHER FINE BRANDS

#### **Hammer Faces**

	Face	Rawhide	Price/	Nylon	Price/
l	Dia.	Order No.	Pair	Order No.	Pair
ı	1-1/4"	4221001		4222001	
ı	1-1/2"	4221002		4222002	
ı	1-3/4"	4221003		4222003	
ı	2"	4221004		4222004	
ı	2-3/4"	4221005		4222005	

## **BRASS HAMMERS**

**SERIES 855:** 

- Non-sparking
- Will not mar finished iron or steel surfaces
- Premium hickory handle

Approx. Wt. (lb.)	Face Dia.	Handle Lgt.	Order No.	Price
1/2	1"	12"	8550701	
1	1-1/8"	12"	8550702	
1-1/2	1-3/8"	13"	8550703	
2	1-3/8"	13"	8550704	
3	1-1/2"	14"	8550705	
4	1-5/8"	16"	8550706	
5	1-3/4"	16"	8550707	
6	1-3/4"	16"	8550708	

OR OTHER FINE BRANDS

8550709

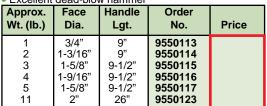
26"

## **LEAD HAMMERS SERIES 855:**

 Lead alloy provides the softest blow

 Steel handle with ergonomic shur-grips

Excellent dead-blow hammer





SERIES 202:



## **NO-MAR HAMMERS** WITH SCREW ON TIPS

**Aluminum Head** 

Head Dia.		Handle Length		Order No.	Price
1"	3-1/2"	11"	Wood	2021770	
1"	3-1/2"	11"	Fiberglass	2020770	
1-1/2"	4-1/2"	12"	Wood	2021772	
1-1/2"	4-1/2"	12"	Fiberglass	2020772	
2"	5"	13"	Wood	2021774	
2"	5"	13"	Fiberglass	2020774	

#### **Screw on Tips**

Hammers come with green and red tips

	1"		1-1/2	."	2"	'
Color	Order No.	Price	Order No.	Price	Order No.	Price
Green (Tough)	2027711		2027731		2027751	
Red (Medium)	2027712		2027732		2027752	
Brown (Soft)	2027713		2027733		2027753	
Cream (Med. Hard)	2027714		2027734		2027754	
Black (Hard)	2027715		2027735		2027755	

## **NO-MAR COPPER AND BRASS HAMMERS**

With Fiberglass Handles

- Non spark
- Non magnetic



Face Dia.	Weight	Brass Order No.	Price	Copper Order No.	Price
7/8" 1" 1-1/4" 1-1/4" 1-1/2"	8 oz. 1 lb. 1-1/2 lb 2 lb 3 lb	2020750 2020751 2027515 2020752 2020753		2020760 2020761 2027615 2020762 2020763	

#### NO-MAR LEAD HAMMERS

STEEL HANDLES WITH VINYL GRIPS



## 1-5/8" 3-3/4 5 lb 2020735

## **NO-MAR HAMMERS WITH** REPLACEABLE POLYURETHANE PRESS-ON TIPS

				Fiberglass	Handle	Wood H	andle	(Repl't)-	Tips
Head Dia.		Handle Length	, .bb. e	Order No.	Price	Order No.	Price	Order No.	Price
5/8"	2-1/4"	8"	3-3/4 oz.	2021700		2020700		2027001	
3/4"	2-1/2"	10"	4-1/2 oz.	2021700		2020700		2027001	
1"	3-1/4"	11"	1/2 lb.	2021705		2020705		2027051	
1-1/4"	3-3/4"	13"	3/4 lb.	2021707		2020707		2027071	
1-1/2"	4"	13"	1-1/4 lb.	2021717		2020717		2027171	





## **HAND TOOLS**

SERIES 871



## **BALL PEIN - WOOD HANDLE HAMMERS**



Head Weight	Length	Order No.	Price
2 oz	10"	25700	
4 oz	10-1/4"	25701	
8 oz	12-1/4"	25702	
12 oz	13-1/2"	25703	
16 oz	14-1/4"	25704	
20 oz	14-1/2"	25705	
24 oz	15-1/2"	25706	
32 oz	16"	25707	
40 oz	16"	25708	
48 oz	16"	25709	

#### **LINESMAN PLIERS**



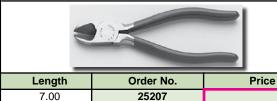
Length	Order No.	Price
8.00	25208	

## **CHAIN NOSE PLIERS WITH CUTTER**

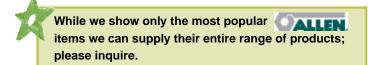


Length	Order No.	Price
6.50	25206	
8.00	25608	
-		

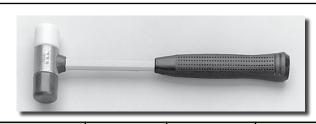
## **HEAVY DUTY DIAGONAL CUTTING PLIERS**



DIAGONAL CUTTING PLIERS				
Length	Order No.	Price		



### **SOFT FACE HAMMER**



Head Weight	Length	Order No.	Price
12 oz	11-5/8"	25716	

#### **RUBBER MALLET HAMMERS**



Head Weight	Length	Order No.	Price
20 oz	13-1/2"	25714	
28 oz	16-1/2"	25715	

#### **ADJUSTABLE WRENCHES**



Length	Order No.	Price	Length	Order No.	Price
4.00 6.00 8.00 10.00	24004 24006 24008 24010		12.00 15.00 18.00 24.00	24012 24015 24017 24024	

#### **SLIP JOINT PLIERS**



Overall Length	Order No.	Price
6.00 8.00	25106 25108	

## **RIB LOCK - CHROME FINISH PLIERS**



Length	Order No.	Price
10.00	25310	
16.00	25316	





SERIES 88:



## **TONGUE & GROOVE PLIERS**



#### Features:

- Patented Perma Lock fastener.
- Polished steel.

Size	Capacity	Model No.	Order No.	Price
4-1/2	1/2	424	0880424	
6-1/2	7/8	426	0880426	
9-1/2	1-1/2	420	0880420	
10	2	430	0880430	
12	2-1/4	440	0880440	

### **DIAGONAL CUTTING PLIERS**



- Polished steel finish.
- Perfectly mated cutting edges.

Size	Model No.	Order No.	Price
7	337	0880337	
7-3/4	447	0880447	

#### **NUTBUSTER PLIER**



#### Features:

- Right angle teeth grip in all directions.
- Double Tongue and Groove won't slip.

Size	Model No.	Order No.	Price
9-1/2	410	0880410	

# LONG NOSE PLIERS

#### Features:

- Polished steel finish.
- Hand honed.
- Side cutter

Size	Model No.	Order No.	Price
6	326	0880326	
7-1/2	317	0880317	

#### **LINEMEN'S PLIERS**



- Polished steel finish.
- Perfectly mated cutter.
- · Rounded nose.

Size	Model No.	Order No.	Price
8-1/2	348	0880348	
9*	369	0880369	

<sup>\*</sup>High Leverage



#### Features:

- Crimps both insulated and non-insulated wire.
- Strips wire without damaging the conductor.

Size	Model No.	Order No.	Price
8	908	0880908	



While we show only the most popular with the popular items we can supply their entire range of products; please inquire.



## LOCKING PLIERS

Series 927:



- High Grade alloy steel scientifically hardened & tempered. Nickel plated finish.
- Exerts more than a ton of pressure between jaws. Adjustable to ratchet-like action.

#### STRAIGHT JAWS

REGULAR MODEL WITHOUT WIRE CUTTER



Length	Jaw Thick	Jaw Adjusts	Model No.	Order No.	Price
7	5/16	1-1/8	7R	9270007	
10	5/8	1-5/8	10R	9270010	

#### **CURVED JAWS**

THIN NOSE WITH WIRE CUTTER



Length	Jaw Thick	Jaw Adjusts	Model No.	Order No.	Price
4 5 7 10	1/4 1/4 5/16 3/8	15/16 1-1/4 1-5/8 1-7/8	4WR 5WR 7WR 10WR	9271104 9271105 9271107 9271110	

#### CURVED JAWS

THIN NOSE WITHOUT WIRE CUTTER



Length	Jaw Thick	Jaw Adjusts	Model No.	Order No.	Price
7	5/16	1-5/8	7CR	9270107	
10	3/8	1-7/8	10CR	9270110	

## 20R LOCKING CHAIN CLAMP

Holds and locks around any shape, any size. Adjusts quickly for ratchet action in either direction.



Effective Chain Length: 18"



Order No. 9270020 **Price** 

## **LOCKING SHEET METAL TOOL**

FOR BENDING. **FORMING & CRIMPING** 

Locks to work with powerful grip. Makes all kinds of bending, forming, crimping jobs easier and faster.



Length	Jaw Width	Throat Depth	Model No.	Order No.	Price
8	3-1/8	1-3/4	8R	9270008	

## "C" CLAMPS WITH EASY RELEASE

#### **FEATURES:**

- Made of special alloy steel, hardened and tempered.
- Bright finish.
- · Adjusts by means of end screw then locks onto work by a squeeze of the hand. User can hold work with one hand and apply clamp with the other.
- Small jaw area for close quarters. Quick application for repeat jobs. Easy release lever in handle.

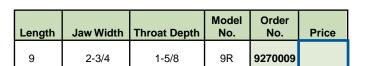


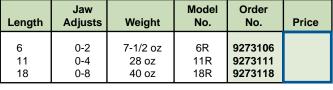
Length	Jaw Adjusts	Weight	Model No.	Order No.	Price
6	0-2	7-1/2 oz	6R	9273106	
11	0-4	28 oz	11R	9273111	
18	0-8	40 oz	18R	9273118	

## LOCKING WELDING CLAMP

DEEP THROATED. **U-SHAPED JAWS** 

Deep-throated, U-shaped jaws for visibility and working space. Holds work in proper alignment.





While we show only the popular VISE-GRIP items we can supply their entire range of products; please inquire.

## MACHINE SHOP DISCOUNT SUPPLY

Series 929:

















Size	Cutting Pattern	Maximum Cutting Capacity	Length of Cut	Туре	Model No.	Order No.	Price
10"	Straight and curves	Sheet metal, vinyl, plastic, rubber and many other applications.	1-516"	Utility	21304	9290104	
10"	Left and straight	Up to .84mm/22ga. Stainless and 1.19mm/18ga. Mild Steel	1-5/16"	Aviation	2073111	9290101	
10"	Right and straight	Up to .84mm/22ga. Stainless and 1.19mm/18ga. Mild Steel	1-5/16"	Aviation	2073112	9290102	
10"	Straight and wide curves	Up to .84mm/22ga. Stainless and 1.19mm/18ga. Mild Steel	1-5/16"	Aviation	2073113	9290103	
7"	Tight curves and straight cuts	Up to .45mm/26ga. Cold Rolled Steel, .38mm/28 ga. Stainless Steel	1-1/2"	Tinner	23007	9290207	
10"	Tight curves and straight cuts	Up to .61mm/24ga. Cold Rolled Steel, .45mm/26 ga. Stainless Steel	2"	Tinner	23010	9290210	
12-3/4"	Tight curves and straight cuts	Up to .84mm/22ga. Cold Rolled Steel, .61mm/24 ga. Stainless Steel	2-3/4"	Tinner	23012	9290212	

## **AVIATION SNIPS**

**SERIES 442:** 



Description	Order No.	Price
Straight Cut	2510000	
Right Cut	2510010	
Left Cut	2510020	
3-pc. set	4485418	

Blades of high alloy tool steel drop forged with serrated edges. Comfort grip contoured, color-coded vinyl handles. Compound leverage for extra cutting power. 9-3/4" long, cuts up to 18 gauge.

Superior Import

## **#82 SAFETY NOSE** RETRACTABLE BLADE KNIFE **SERIES 526:**





The LUTZ #82 is a heavy-duty industrial quality retractable utility knife. The specially built zinc retractor allows for smoother operation in all three cutting positions. The safety nose overlap on both the top and bottom of the knife is its prominent safety feature. The LUTZ #82 is furnished with three heavy duty .025 blades with additional storage in the handle.

Order No. 20202	Delas	
Order No. 30282	Price:	

**REPLACEMENT BLADES (PACK OF 5 BLADES)** 

Order No. 3000925	Price:	

**REPLACEMENT BLADES (PACK OF 100 BLADES)** 

Order No. 3000100 Price:
--------------------------



## **FASTENER DRIVE TOOLS**

**SERIES 843:** 



### **SHANK INSERT BITS (1/4" SHANK)**

• Compact and versatile allowing them to be used as hand tool or power tool accessories

Phillips Insert Bits									
Point Size	Shank	OAL	Pkg. Qty	Order No.	Price				
#0	1/4"	1"	25	4392001					
#1	1/4"	1"	25	4392005					
#2	1/4"	1"	25	4392011					
#3	1/4"	1"	25	4392019					
	Phillips Drywall Insert Bits								
#2	1/4	1"	25	4392047					



Slotted Insert Bits							
Point Size	Shank	Oal	Pkg. Qty	Order No.	Price		
3-4	1/4"	1"	25	4392105			
4-5	1/4"	1"	25	4392107			
6-8	1/4"	1"	25	4392111			
8-10	1/4"	1"	25	4392113			
10-12	1/4"	1"	25	4392115			
12-14	1/4"	1"	25	4392117			
14-16`	1/4"	1"	25	4392119			



Square Recess Insert Bits								
Point Size	Shank	OAL	Pkg. Qty	Order No.	Price			
#0 #1 #2 #3	1/4" 1/4" 1/4" 1/4"	1" 1" 1" 1"	25 25 25 25 25	4392201 4392203 4392205 4392207				



Socket Head Insert Bits - Fractional								
Point Size	Shank	OAL	Pkg Qty	Order No.	Price			
.050"	1/4"	1-1/4"	10	4392407				
1/16	1/4"	1-1/4"	10	4392403				
5/64	1/4"	1-1/4"	10	4392411				
3/32	1/4"	1-1/4"	10	4392415				
7/64	1/4"	1-1/4"	10	4392419				
1/8	1/4"	1-1/4"	10	4392423				
9/64	1/4"	1-1/4"	10	4392427				
5/32	1/4"	1-1/4"	10	4392431				
3/16	1/4"	1-1/4"	10	4392437				
7/32	1/4"	1-1/4"	10	4392443				
1/4	1/4"	1-1/4"	10	4392451				
5/16	1/4"	1-1/4"	10	4392467				
3/8	1/4"	1-1/4"	10	4392483				
	Sock	et Head	Insert E	its - Metric				
2mm	1/4"	1-1/4"	10	4392507				
3mm	1/4"	1-1/4"	10	4392509				
4mm	1/4"	1-1/4"	10	4392511				
5mm	1/4"	1-1/4"	10	4392513				
6mm	1/4"	1-1/4"	10	4392515				
8mm	1/4"	1-1/4"	10	4392517				

#### 1/4" MAGNETIC HEX SHANK BIT HOLDERS

• Designed for use with insert bits only.



Description	OAL	Order No.	Price
Standard W/ C-Ring	2-1/4"	4393712	
No C-Ring	2-1/4"	4393714	
Knurled	2-15/16"	4393715	
Standard W/C-Ring	2-31/32"	4393718	
No C-Ring	2-31/32"	4393722	

#### **MAGNETIC POWER NUTSETTERS-FRACTIONAL**

#### **POWER NUTSETTER:**

• For use with sheet metal screws and other hexagon head fasteners.



Standard 6pt. design.

Hex Drive	Shank Dia	Socket Body	Shank Body	OAL	Pkg. Qty	Order No.	Price
			,	0.1.1		1101	
1/4"	1/4"	7/16"	-	1-7/8"	10	4394212	
5/16	1/4	1/2"	-	1-7/8"	10	4394232	
3/8	1/4	9/16"	-	1-7/8"	10	4394252	
7/16	1/4	5/8"	-	1-7/8"	10	4394272	
1/4	1/4	7/16"	5/16"	2-9/16"	10	4394312	
5/16	1/4	1/2"	5/16"	2-9/16"	10	4394332	
7/16	1/4	5/8"	3/8"	2-9/16"	10	4394372	
6mm	1/4	11.1mm	-	47.6mm	10	4394202	
8	1/4	12.7	-	47.6	10	4394204	
10	1/4	14.3	-	47.6	10	4394206	

#### **SQUARE DRIVE SOCKET ADAPTERS**



- Pinlock design for production applications
- Ball retention design for quick change applications

Sq. drive	Lock Type	OAL	Order No.	Price
1/4" 1/4" 3/8" 3/8" 3/8" 3/8" 3/8" 3/8" 1/2" 1/2"	PIN BALL PIN BALL PIN BALL BALL BALL	2" 2" 1-5/8" 1-5/8" 2" 3" 3" 2" 3"	4393758 4393761 4393781 4393782 4393783 4393784 4393786 4393787 4393795 4393797	



## MACHINE SHOP DISCOUNT SUPPLY

## **FASTENER DRIVE TOOLS**

**SERIES 843:** 





- Designed for higher torque capabilities of power tools.
- Fit directly into the power drill chuck or quick change chuck adapter.

## **POWER BITS (1/4" SHANK)**

#### **SLOTTED POWER BITS**



Point Size	Shank	OAL	Pkg. Qty	Order No.	Price
3-4	1/4"	1-15/16	10	4393103	
4-5	1/4	1-15/16	10	4393105	
5-6	1/4	1-15/16	10	4393107	
6-8	1/4	1-15/16	10	4393109	
8-10	1/4	1-15/16	10	4393111	
10-12	1/4	1-15/16	10	4393113	
12-14	1/4	1-15/16	10	4393115	
3-4	1/4	2-3/4	10	4393123	
4-5	1/4	2-3/4	10	4393125	
5-6	1/4	2-3/4	10	4393127	
6-8	1/4	2-3/4	10	4393129	
8-10	1/4	2-3/4	10	4393131	
10-12	1/4	2-3/4	10	4393133	
12-14	1/4	2-3/4	10	4393135	
3-4	1/4	3-1/2	10	4393155	
4-5	1/4	3-1/2	10	4393157	
5-6	1/4	3-1/2	10	4393159	
6-8	1/4	3-1/2	10	4393161	
8-10	1/4	3-1/2	10	4393163	
10-12	1/4	3-1/2	10	4393165	
12-14	1/4	3-1/2	10	4393167	
3-4	1/4	6	5	4393173	
4-5	1/4	6	5	4393175	
5-6	1/4	6	5	4393177	
6-8	1/4	6	5	4393179	
8-10	1/4	6	5	4393181	
10-12	1/4	6	5	4393183	
12-14	1/4	6	5	4393185	

#### **PHILLIPS POWER BITS**



Size	Shank	OAL	Pkg. Qty	Order No.	Price
#1 #2 #3 #1 #2 #3 #1 #2 #3 #1 #2 #3	1/4" 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	1-15/16 1-15/16 1-15/16 2-3/4 2-3/4 2-3/4 3 3 3-1/2 3-1/2 3-1/2	10 10 10 10 10 10 10 10 10 10	4393003 4393007 4393011 4393017 4393019 4393021 4393043 4393047 4393049 4393023 4393025 4393029	
#1 #2 #3 #1 #2 #3	1/4 1/4 1/4 1/4 1/4 1/4	4 4 4 6 6 6	10 10 10 10 10 10	4393053 4393057 4393059 4393063 4393067 4393069	

### **SLOTTED POWER BITS WITH FINDER**



Point Size	Shank	OAL	Pkg. Qty	Order No.	Price
5-6	1/4"	2-5/32"	10	4393191	
6-8	1/4"	2-5/32"	10	4393193	
10-12	1/4"	2-5/32"	10	4393195	

### **SQUARE RECESS POWER BITS**



Size	Shank	OAL	Pkg. Qty	Order No.	Price
#1 #2 #3 #1 #2 #3 #1 #2	1/4" 1/4 1/4 1/4 1/4 1/4 1/4 1/4	1-15/16 1-15/16 1-15/16 2-3/4 2-3/4 2-3/4 6 6	10 10 10 10 10 10 10 10	4393203 4393205 4393207 4393211 4393213 4393215 4393230 4393231 4393232	

#### **TORX® POWER BITS**



Common in automotive and computer industries

Point Size	Shank	Overall Length	Order No.	Price
T6	1/4"	1-15/16"	4393306	
T7	1/4"	1-15/16"	4393309	
T8	1/4"	1-15/16"	4393312	
Т9	1/4"	1-15/16"	4393315	
T10	1/4"	1-15/16"	4393318	
T15	1/4"	1-15/16"	4393321	
T20	1/4"	1-15/16"	4393324	
T25	1/4"	1-15/16"	4393327	
T27	1/4"	1-15/16"	4393330	
T30	1/4"	1-15/16"	4393333	
T40	1/4"	1-15/16"	4393336	



While we show only the popular HANSON items we can supply their entire range of products; please inquire.

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## **BALLDRIVER® POWER BITS**

**SERIES 805:** 





Hex	Blade Length	Order No.	Price
	Inc	h Sizes	
5/64"	3.0"	10804	
3/32"	3.0"	10805	
7/64"	3.0"	10806	
1/8"	3.0"	10807	
9/64"	3.0"	10808	
5/32"	3.0"	10809	
3/16"	3.0"	9910810	
7/32"	3.0"	10811	
1/4"	3.0"	9910812	
5/16"	3.0"	9910813	
3/8"	3.0"	9910814	
1/2	3.0	9910816	
		c Sizes	
2mm	76mm	0910852	
2.5mm		9910854	
3mm	76mm	0910856	
4mm	76mm	9910860	
5mm	76mm	9910864	
6mm	76mm	9910868	
8mm	76mm	9910872	
10mm	76mm	9910876	

## **BIT-SELECTORS**

**SERIES 802:** 

Compact size and easy bit selection make this bit-selector an ideal maintenance tool. 10 hardened bits of CVM steel, hardened, chrome-plated. 1/4" magnetic bit holder can be used in power tools.



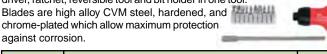
12mm 76mm **0910880** 

Order No.	Description	Price
79243	Slotted, Phillips, Torx® Bit-Selector Slotted: 5.5, 6.5, 8.0mm; Phillips: 0, 1, 2, 3 Torx®: T10, T15, T20	
79245	Torx® Bit-Selector Torx® T7, T8, T9, T10, T15, T20, T25, T27, T30, T40	

## **TOPRA RATCHET SETS**

**SERIES 802:** 

WIHA Topra Ratchet handle, ergonomic design for free runner mechanism. Topra Ratchet handle has four advantages: screwdriver, ratchet, reversible tool and bit holder in one tool. Blades are high alloy CVM steel, hardened, and chrome-plated which allow maximum protection



Order No.	Description	Price
28295	10 Torx® Set Sizes: T7, T8, T9, T10, T15, T20, T25, T27, T30. T40	
28296	10 Slotted/Phillips/Torx® Set: Slotted 5.5, 6.5, 8.0mm Phillips: 0, 1, 2, 3, Torx®: T10, T15, T20	

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## **DRILL-OUT® BROKEN BOLT EXTRACTORS**

SERIES 967:





#### **FEATURES:**

- Removes broken bolts and studs without damaging the hole threads.
- Designed to be used in 3/8" variable speed electric drill.
- Remove broken bolts in a fraction of the time used by manual tools.
- Patented design drill point with self-centering, left cutting drill point, gives the user control and maneuverability while drilling.
- Drill bit and extractor in one tool.
- Sets supplied in plastic case.

#### Power Extractors

Size of Bolt or Stud to be removed	Order No.	Price
1/4" (6mm)	9670016	
5/16" (8mm)	9670020	
3/8" (10mm)	9670024	
1/2" (12mm)	9670032	
4 Piece Set 1/4"-1/2" (6mm-12mm)	9670401	

#### **Micro Power Extractors**

Size of Bolt or Stud to be removed	Order No.	Price
#5 & #6 (3mm)	9670003	
#8 (4mm)	9670004	
#10 & 12 (5mm)	9670005	
1/4" (6mm)	9670006	
4 Piece Set #5-1/4" (3mm-6mm)	9670450	

#### **Master Extractor Set**

Size of Bolt or Stud to be removed	Order No.	Price
7 Piece Set 1/8"(#5) - 1/2" & 3mm-12mm	9670701	

## **MIDGET RATCHET SETS**

**SERIES 960:** 

#### STANDARD KIT "THE MOST POPULAR SET"

- 1 Midget Ratchet
- 1 Extension
- 1 Screw Driver Handle
- 12 Allen Hex Type Adapters. (.050, 5/64, 7/64, 9/64, 3/16, 1/4, 1/16, 3/32, 1/8, 5/32,7/32, 5/16,)
- 2 Slotted Head Adapters 1/4, 3/8.
- 2 Phillips Head Adapters #1, #2.
- 1 pc 1/4 Square Drive Adapter.
- Polyethylene case 4-1/2" x 6-1/2".

## Model # 4320

WOUCH # 4320						
Order No. 960432	0 Price					

## STANDARD ASSORTMENT PLUS METRIC

- 1 Midget Ratchet
- 1 Extension
- 1 Screw Driver Handle
- 12 Allen Hex Type Adapters (.050, 5/64, 7/64, 9/64, 3/16, 1/4, 1/16, 3/32, 1/8, 5/32, 7/32, 5/16)
- 3 Slotted Head Adapters 3/16, 1/4, 3/8
- 2 Phillips Head Adapters #1, #2
- 1 pc 1/4 Square Drive Adapter
- 7 Metric (Allen Hex Type) Adapters: 1.5mm, 2.0mm, 2.5mm, 3.0mm, 4.0mm, 5.0mm, 6.0mm, (Size indicates distance across flats
- Polyethylene Case 5-1/2" x 7-3/4"

#### Model # 7331

Order No. 9607331	Price	



## MACHINE SHOP DISCOUNT SUPPLY







Order

No.

10021

10022

10023

9910024

9910025

10026

10027

9910028

9910029

10030

**Price** 



## 1/4" DRIVE SOCKETS **& ACCESSORIES**

**Dimensions** 

В

.458

.458

.458

.458

.458

.455

.502

.537

.617

.694

С

.280

.315

.353

.390

.426

.455

.502

.537

.617

.694

**6 PT. STANDARD SOCKETS 1/4"DRIVE** 

**SERIES 871:** 

Size

5/32"

3/16"

7/32"

1/4"

9/32

5/16"

11/32"

3/8"

1/2"

7/16"

.883

.883

.883

.883

.883

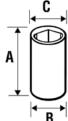
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Size

3/16"

7/32"

1/4"

9/32"

5/16"

3/8"

1/2"

7/16"

11/32"

2.010

2.010

2.010

.540

.620

.694

6 P

Metrics	availble;
please	inquire.



<b>,</b>				
C	imens	ions	Order	
Α	В	С	No.	Price
T. DEE	P SOC	KETS	3 1/4" DR	IVE
2.010	.453	.315	10052	
2.010	.477	.356	10053	
2.010	.453	.397	10054	
2.010	.453	.438	9910055	
2.010	.458	.458	10056	
2 010	505	505	9910057	

.540

.620

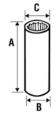
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9910058

10059

10060

## 3/8" & 1/2" DRIVE SOCKETS & ACCESSORIES



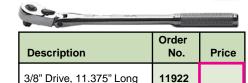


		imensi	ons	Order			Din	nension	S	Order	
Size	Α	В	С	No.	Price	Size	Α	В	С	No.	Price
12 PT.	STANI	DARD	SOCKI	ETS 3/8"	DRIVE	12 P	T. DEE	P SOC	KETS	3/8" D	RIVE
5/16"	.94	5 .662	.460	11206		3/8"	2.513	.667	.568	11258	
3/8"	.94	5 .664	.568	11208		7/16"	2.513	.664	.664	11259	
7/16"	.94	5 .664	.664	11209		1/2"	2.513	.706	.706	11260	
1/2"	.97			11210		9/16"	2.513	.786		11261	
9/16"	.97			11211		5/8"	2.513	.870	.870		
5/8"	1.02			11212		11/16"		.925	.925		
11/16"	-			11213		3/4"	2.513		1.002		
3/4"		5  1.002		11214		13/16"		1.085			
13/16"	_	5  1.085				7/8"	2.526	1.186	1.186	11266	
7/8"	1.20	5 1.186	1.186	11216							
12 PT.	STAN	DARD	SOCK	ETS 1/2"	DRIVE	12 P	T. DEE	P SOC	KETS	1/2" DI	RIVE
		Dimens	ions	Order		Dimensions			s	Order	
Size	Α	В	C	No.	Price	Size	Α	В	С	No.	Price
3/8"	1.510	.874	.524	12208		1/2"	3.267	.876	.754	12260	
7/16"	1.510	.876	.684	12209		9/16"	3.267	.876	.818	12261	
1/2"	1.510	.876	.754	12210		5/8"	3.267	.876	.876	12262	
9/16"	1.510	.876	.818	12211		11/16"	3.267	.967	.967	12263	
5/8"	1.510	.876	.876	12212		3/4"	3.267	1.042	-	12264	
11/16"	1.510	.967	.967	12213		13/16"	3.267	1.130	1.130	12265	
3/4"											
	1.510	1.042	1.042	12214		7/8"	3.267	1.195		12266	
13/16"	1.510	1.122	1.122	12215		7/8" 15/16"	3.267 3.267	1.195 1.274	1.274	12267	
13/16" 7/8"	1.510 1.510	1.122 1.186	1.122 1.186	12215 12216		7/8" 15/16" 1"	3.267 3.267 3.267	1.195 1.274 1.274	1.274 1.274	12267 12268	
13/16" 7/8" 15/16"	1.510 1.510 1.510	1.122 1.186 1.262	1.122 1.186 1.262	12215 12216 12217		7/8" 15/16" 1" 1-1/16"	3.267 3.267 3.267 3.267	1.195 1.274 1.274 1.426	1.274 1.274 1.426	12267 12268 12269	
13/16" 7/8" 15/16" 1"	1.510 1.510 1.510 1.635	1.122 1.186 1.262 1.340	1.122 1.186 1.262 1.340	12215 12216 12217 12218		7/8" 15/16" 1"	3.267 3.267 3.267	1.195 1.274 1.274 1.426	1.274 1.274	12267 12268	
13/16" 7/8" 15/16" 1" 1-1/16"	1.510 1.510 1.510 1.635 1.635	1.122 1.186 1.262 1.340 1.414	1.122 1.186 1.262 1.340 1.414	12215 12216 12217 12218 12219		7/8" 15/16" 1" 1-1/16"	3.267 3.267 3.267 3.267	1.195 1.274 1.274 1.426	1.274 1.274 1.426	12267 12268 12269	
13/16" 7/8" 15/16" 1" 1-1/16" 1-1/8"	1.510 1.510 1.510 1.635 1.635 1.697	1.122 1.186 1.262 1.340 1.414 1.495	1.122 1.186 1.262 1.340 1.414 1.495	12215 12216 12217 12218 12219 12220		7/8" 15/16" 1" 1-1/16"	3.267 3.267 3.267 3.267	1.195 1.274 1.274 1.426	1.274 1.274 1.426	12267 12268 12269	
13/16" 7/8" 15/16" 1" 1-1/16"	1.510 1.510 1.510 1.635 1.635 1.697 1.770	1.122 1.186 1.262 1.340 1.414	1.122 1.186 1.262 1.340 1.414	12215 12216 12217 12218 12219		7/8" 15/16" 1" 1-1/16"	3.267 3.267 3.267 3.267	1.195 1.274 1.274 1.426	1.274 1.274 1.426	12267 12268 12269	



Description	Order No.	Price
1/4" Drive, 5.5" Long 3/8" Drive, 7.625" Long 1/2" Drive, 10.313" Long	10900 11900 12800	

#### **TEAR DROP QUICK RELEASE FLEX HEAD RATCHET**



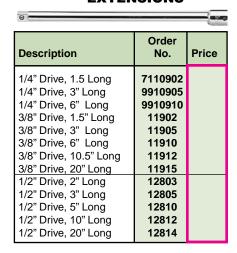
#### **FLEX HANDLE**

1/2" Drive, 16.750" Long



#### **EXTENSIONS**

12802



#### **ADAPTERS & UNIVERSAL JOINTS**





Description	Order No.	Price
3/8F x 1/4M,1.000" Long Adapter 3/8" Drive, 2" Long Universal Joint 1/2F x 3/8M, 1.440" Long Adapter	1930	

(Continued)

INDUSTRIAL SUPPLIES

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## 1/4". 3/8". & 1/2" SOCKET SETS IN METAL BOX

**SERIES 871:** OR OTHER FINE BRANDS

<b>a</b> n		

	771	

13 PIECE ---- 1/4" DRIVE SOCKET SET Order No. 19009 Price

**INCLUDES:** Nine 6 pt. Std. Sockets: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"; 1-1/2" Extension; 6" Extension; Spinner Handle; Round Head Ratchet: in a metal box.

14 PIECE ---- 1/4" DRIVE METRIC SOCKET SET

Order No. 19019

Price

INCLUDES: Ten 6 pt. Std. Sockets: 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm; 13mm; 1-1/2" Extension; 6" Extension; Spinner Handle; Round Head Ratchet; in a metal box.

12 PIECE ---- 3/8" DRIVE FRACTIONAL SOCKET SET

Order No. 19135

Price

**INCLUDES:** Eight 12 pt. Std. Sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16"; Spark Plug Skt 5/8"; 3" Extension; 6" Extension; Round Head Ratchet: in a metal box.

14 PIECE ---- 3/8" DRIVE METRIC SOCKET SET

**Order No. 19137** 

Price

INCLUDES: Ten 12 pt. Std. Sockets: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm; Spark Plug Skt 5/8"; 3" Extension; 6" Extension; Round Head Ratchet; in a metal box.

18 PIECE ---- 3/8" DRIVE SOCKET SET

Order No. 19136

Price

INCLUDES: Seven 12 pt. Std. Sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"; Spark Plug Skt 5/8"; Seven 12 pt. Dp. Sockets: 3/8", 7/16", 1/2", 9/16, 5/8", 11/16", 3/4"; 3" Ext.; 6" Ext.; Round Head Ratchet; in a metal box.

12 PIECE ---- 1/2" DRIVE SOCKET SET Order No. 19220 Price

INCLUDES: Ten 12 pt. Std. Sockets: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"; 6" Extension; Round Head Ratchet; in a metal box.

15 PIECE ---- 1/2" DRIVE METRIC SOCKET SET

Order No. 19221

Price

INCLUDES: Thirteen 12 pt. Std. Sockets:10mm, 12mm, 13mm, 14mm, 17mm, 18mm, 19mm, 22mm, 23mm; 24mm, 25mm, 27mm, 28mm; 6" Extension; Round Head Ratchet; in a metal box.

16 PIECE ---- 1/2" DRIVE FRACTIONAL SOCKET SET

Order No. 19211

Price

INCLUDES: Thirteen 12 pt. Std. Sockets: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"; 1-1/16", 1-1/8", 1-1/4"; 6" Extension; Flex Handle 15"; Quick Release Ratchet; in a metal

## 1/4", 3/8", & 1/2" SOCKET SETS IN POLYETHYLENE CASE

### 57 PIECE ---- 1/4" & 3/8" FRACTIONAL / METRIC **SOCKET SET**

**Order No. 19125** 

Price

INCLUDES: Twenty 6 pt. 1/4 Std. Sockets: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm; Eighteen 12 pt. 3/8" Std. Sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 19mm; Five 12 pt. 3/8" Deep Sockets: 3/8", 7/16", 1/2", 9/16", 3/4"; 6 pt. 3/8" Spark Plug Socket 5/8"; 1/4" Spinner Handle; 1/4" Extension: 1-1/2"; Two 3/8" Extensions: 3", 6"; 3/8" Adapter: 3/8"F-1/4"M; 3/8" Teardrop Ratchet; Seven Short Arm Hex Keys: 5/64", 3/32",1/8", 5/32", 3/16", 7/32", 1/4"; in a high density polyethylene case.

#### 72 PIECE ---- 1/4" & 3/8" DRIVE FRACTIONAL / METRIC SOCKET SET

**Order No. 19138** 

Price

INCLUDES: Twenty 6 pt. 1/4 Std. Sockets: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"; 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm; Eighteen 12 pt. 3/8" Std. Sockets; 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 19mm; Five 12 pt. 3/8" Deep Sockets: 3/8", 7/16", 1/2", 9/16", 3/4"; 6 pt. 3/8" Spark Plug Socket 5/8; 1/4" Spinner Handle; 1/4" Teardrop Ratchet; 1/4" Extension: 1-1/2"; Two 3/8" Extensions: 3", 6"; 3/8" Adapter 3/8"F-1/4"M; 3/8" Teardrop Ratchet; 5 Pc. Combination Wrench Set.; 6 Pc. Duracast Hex Key / Screwdriver Fold-up; Fifteen Short Arm Hex Keys: .028", .035", .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"; in a high density polyethylene case.





While we show only the most popular OALLEN items we can supply their entire range of products; please inquire.





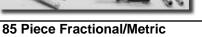
1/4", 3/8", & 1/2" SOCKETS SETS **SERIES 871:** (Continued)





OR OTHER FINE BRANDS

#### IN POLYETHYLENE CASE



1/4" and 3/8" Drive Socket Set

Order No. 19144

Price

## 85 Piece Set Includes:

1/4" Dr. Round Hd Ratchet 3/8" Dr. Round Hd Ratchet 6 Pt. 1/4" Dr Std Sockets: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" 6-Pt. 1/4" Dr. Metric Std Sockets: 4mm - 13mm 12-Pt. 3/8" Dr. Std Sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16, 3/4", 13/16" 12-Pt. 3/8" Dr. Std Sockets:

10mm - 19mm

6-Pt. 1/4" Dr. Deep Sockets: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16"

6-Pt 1/4" Dr Metric Deep Sockets: 6mm - 10mm

12-Pt. 3/8" Dr. Deep Sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"

12-Pt. 3/8" Dr. Metric Deep Sockets: 10mm - 19mm

6-Pt. 3/8" Dr. 5/8" Spark Plug Socket 6-Pt. 3/8" Dr. 13/16" Spark Plug Socket

1/4" Dr. Spinner Handle 3/8" Dr. 3/8" to 1/4" Reducing Adapter

1/4" Dr. 3" Extension Bar 3/8" Dr. 3" Extension Bar

Short Arm Hex Keys: 5/64", 3/32", 1/8", 5/32", 3/16",

7/32", 1/4"

High Density Polyethylene Case

## 107 Piece Fractional/Metric 1/4", 3/8" & 1/2" Drive Socket Set

Order No. 19222

Price

### 107 Piece Set Includes:

1/4" Dr. Round Hd Ratchet 3/8" Dr. Round Hd Ratchet 1/2" Dr. Round Hd Ratchet 6 Pt. 1/4" Dr Std Sockets: 5/32", 3/16", 7/32", 1/4", 9/32" 5/16", 11/32", 3/8", 7/16", 1/2" 6-Pt. 1/4" Dr. Metric Std Sockets: 4mm - 13mm 12-Pt. 3/8" Dr. Std Sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16" 12-Pt. 3/8" Dr. Metric Std Sockets: 10mm - 19mm

12-Pt. 1/2" Dr. Std Sockets:

1/2", 9/16", 5/8", 11/16", 3/4", 13/16". 7/8". 15/16"

12-Pt. 1/2" Dr. Metric Std Sockets: 18mm - 22mm

6-Pt. 1/4" Dr. Deep Sockets: 3/16", 7/32", 1/4", 9/32", 5/16",

11/32", 3/8", 7/16" 6-Pt. 1/4" Dr Metric Deep Sockets: 4mm - 11mm

3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8" 12-Pt. 3/8" Dr. Metric Deep Sockets: 10mm - 19mm 12-Pt. 1/2" Dr. Deep Sockets: 1/2", 9/16", 5/8", 11/16" 6-Pt. 3/8" Dr. 5/8" Spark Plug Socket

12-Pt. 3/8" Dr. Deep Sockets:

6-Pt. 3/8" Dr. 13/16" Spark Plug Socket 1/4" Dr. Spinner Handle

3/8" Dr. 3/8" to 1/4" Reducing Adapter

1/4" Dr. 3" Extension Bar 3/8" Dr. 3" Extension Bar

1/2" Dr. 3" Extension Bar Short Arm Hex Keys:

5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"

High Density Polyethylene Case



## 41 Piece Fractional/Metric 1/4" and 3/8" Drive Socket Set

Order No. 19142

Price

#### **41 Piece Set Includes:**

3/8" Dr. Round Head Ratchet Sockets: 6-Pt. 1/4" Dr. Std Sockets: 5/32", 3/16", 7/32", 1/4", 9/32", 12-Pt. 3/8" Dr. Deep Sockets: 5/16", 11/32", 3/8" 6-Pt. 1/4" Dr. Metric Std Sockets:

4mm - 10mm 12-Pt. 3/8" Dr. Std Sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

12-Pt. 3/8" Dr. Metric Std

10mm-15mm & 17mm-19mm 3/8", 7/16", 1/2", 9/16", 5/8" 6-Pt. 3/8" Dr. 5/8" Spark Plug Socket 1/4" Dr. Spinner Handle

3/8", Dr. 3/8" to 1/4" Reducing Adapter 3/8", Dr. 3" Extension Bar

#### **HEX BIT SOCKET SETS**



#### 9 PIECE — 3/8" DRIVE HEX BIT SOCKET SET

**ORDER No. 9956370** 

**Price** 

**INCLUDES:** Nine Bit Sockets: 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"; in a metal box.

#### 8 PIECE — 3/8" DRIVE METRIC HEX BIT SOCKET SET

**ORDER No. 9956368** 

**Price** 

INCLUDES: Eight Bit Sockets: 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm; in a metal box.

## Tel 201.518.8472 / 800.388.0459 (USA & CANADA) / Email sales@msdiscounttool.com

## TRU-LOK® MEASURING TAPES

**SERIES 791:** 



- Tough Tip® Blade Protector standard on all 1" and 3/4" (25 and 19 mm) blades
- · Rugged, impact resistant case

Industrial Quality Tape Measures with heavy-duty blades as standard. This is the basic measuring tape style used by professionals and homeowners throughout the world. They are named Tru-Lok® because the blade positively locks in position until the cam-activated lock button is released. A new, heavy-duty tape line is

furnished standard, making the tape ideal for work under demanding conditions. Tru-Lok® tapes are available in five case colors — smooth, shiny chrome cases (considered by many to be the "class" of measuring tapes), charcoal black and three high-visibility colors (another Starrett innovation) that easily stand out in the toolbox, workbench or job site.

Length	Grad.	Case Color	Catalog No.	EDP No.	Price	
1/2" (13mm) Tru-Lok® Tapes						
12' 12' 12' 4M 4M /12' 4M /12' 4M /12'	S1 S1 S1 S8 S9 S12 S12	Chrome Charcoal Yellow Chrome Chrome Chrome Charcoal	C12-12 CH12-12 Y12-12 C12-4M8 C12-4ME9 C12-4ME12 CH12-4ME12	65418 65942 65943 65781 65782 65784 65944		
		3/4" (19mm	) Tru-Lok® Tapes			
16' 16' 16' 16' 5M 5M/16' 5M/16' 5M/16' 5M/16' 25' 8M/26'	S1 S1 S1 S1 S6 S9 S11 S12 S12 S1 S12	Chrome Charcoal Neon Orange Yellow Chrome Chrome Chrome Chrome Charcoal Charcoal Charcoal	C34-16 CH34-16 O34-16* Y34-16 C34-5M6 C34-5ME9 C34-5ME11 C34-5ME12 CH34-5ME12 CH34-25 CH34-8ME12	65386 65937 65387 65938 65755 65758 65759 65760 65939 65940 65941		
1" (25mm) Tru-Lok® Tapes			Tru-Lok® Tapes			
25' 25' 25' 8M 8M/26' 8M/26' 88M/26' 30' 30' 30' 30' 30' 30' 30' 31' 30' 31'	S1 S1 S1 S6 S9 S12 S12 S12 S1 S1 S1 S1 S1	Chrome Charcoal Yellow Chrome Chrome Chrome Lime Green Charcoal Chrome Neon Orange Yellow Charcoal Yellow Yellow	C1-25 CH1-25 Y1-25 C1-8M6 C1-8ME9 C1-8ME12 G1-8ME12* CH1-8ME12 C1-30 O1-30* Y1-30 CH1-30 Y1-33 Y1-10ME12	65366 65932 65933 65743 65746 65748 65754 65934 65382 65383 65936 66209 66408 66379		

\*Limited Quantity

#### **GRADUATION CODES**

- S1 English Regular feet, inches, 1/16"
- S3....Diameter Tape inches, 1/16" one side, diameter inches other side. S3A.1/4" Tape inches, 1/16"
- \$6....Millimeter graduations, centimeter numbering full length.
- S8....Millimeter graduations, millimeter numbering to each decimeter and repeat.

Metric Only

- S9....Millimeter graduations, centimeter numbering to end one edge, feet, inches 1/16" other edge.
- S12...Millimeter graduations, millimeter numbering to each decimeter and repeat one edge, feet, inches, 1/16" other edge.

English/ Metric

## AUTOMATIC CONTROLOK® TAPE MEASURES

**SERIES 791:** 



- New tape design features top mounted control lever allowing automatic locking of blade when thumb pressure is released.
   No accidental blade retraction like on bottom lock tapes.
- Rubber top grip, compact size for comfort and easy handling.
- Heavy duty UV top-coated blades.
- Yellow blades
- Tough-Tip® blade protectors.

Blade Length	Catalog No.	EDP No.	Case Color	Graduation Style	Price
		2" (13mm)			
12' 4M/12'	AY12-12 AG12-4ME9*	65927 65728	Yellow Lime Green	S1 S9	
		3/4	l" (19mm)		
16' 16' 16' 5M/16'	AC34-16* AO34-16* AY34-16 AG34-5ME9*	65304 65305 65926 65692	Chrome Neon Orange Yellow Lime Green	S1 S1 S1 S9	
		1'	" (25mm)		
25' 25' 8M 8M/26' 8M/26' 33' 10M/33'	AC1-25* AY1-25 AC1-8M6* AC1-8ME9* AY1-8ME12 AY1-33 AY1-10ME12	65284 65925 65671 65674 66197 66397 66402	Chrome Yellow Chrome Chrome Yellow Yellow Yellow	S1 S1 S6 S12 S9 S1 S12	

\*Limited Quantity

## RE-TAPETM MEASURING TAPE SERIES 791:

Re-Tape has the same design features as our Tru-Lok® tapes, except the case consists of reground materials from other Starrett cases and it has a regular endhook (not a Tough Tip®). Furnished with a new (not recycled) 1" blade, it is a durable tape, great for the environment, and also attractively priced.



\*Limited Quantity

	Limited Quantity				
Length	Blade Width	Grad.	Catalog No.	EDP No.	Price
25' 8M/26'	1" 1" (25 mm)	S1 S12	CS1-25-1 CS1-8ME	64183* 65897*	

## MACHINE SHOP DISCOUNT SUPPLY

## CODE TAPE™ MEASURING TAPE

**SERIES 791:** 

This rugged tape with Tru-Lok® design features a heavy-duty blade as standard, has special information printed on the blade that commercial builders and contractors will appreciate. The 1" blade gives practical information for the building, locating and installation of various equipment required by the ADA (Americans with Disabilities Act). Available in chrome case.



#### 1" X 25' RAPID-RETAPE™ SERIES 791:





#### Now Re-Tape has fractional readouts!

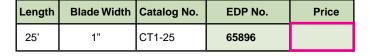
- Quick reading convenient 1/8" fractional readouts clearly marked on the blade. (\$1 Graduation)
- Enviro-Friendly made from recycled cases and a new 1" x 25' steel blade.
- Rugged, impact-resistant case.
- Tru-Lok® positive lock to prevent blade pull back.



#### Catalog No. CSR1-25

Order No. 66549	Price:	
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LIMITED QUANTITY



PI Tape® SERIES 338:



## **Only One Diameter Measurement Necessary**

The periphery tape or **Pi Tape®** gage, provides a quick, accurate and easy method of reading true diameters of both round and out-of-round forms. Perfect for measurement of thin or soft walled parts — large or small.

Pi Tape® gages consist of a narrow metal ribbon bearing special graduations. These graduations are designed to convert circumferential distance into diameter measurement so the observer can read the diameter directly from the scale.

Tapes are checked over master gages at .001" (.03mm) accuracy for standard tapes up to 144" (3600mm). Certificate of accuracy traceable to National Institute of Standards and Technology is furnished.

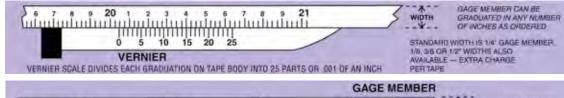
Pi Tape® gages are a precision tool made of 1095 clock spring steel (on request 420 stainless steel — for use in a corrosive atmosphere). They require a minimum of maintenance, but we do recommend a quick wipe with an oil moistened cloth after use. A light gun oil works very well.

Standard tapes have graduations and numerals that are engraved and acid etched on a ground surface. The tape has a fixed reading that does not require periodic adjustments.

English reading tapes read to .001" diameter.
Accuracy of standard tapes ± .001" up to 144".

Metric reading tapes read to 0.01mm diameter.
Accuracy of standard tapes ± 0.03mm up to 3600mm.

Calibration performed in accordance with ANSI/NCSL Z540-1-1994, ISO/IEC Guide 25 and Mil-Std. 45662A.





METRIC INCH

METRIC							писп						
Part No.	Dia. mm	Gage Member mm	Thick- ness mm	Body Width mm	Order No.	Price	Part No.	Dia. Inches	Gage member	Thick- ness	Body Width	Order No.	Price
PM0	28-200	6.35	0.18	12.7	3380000		P000	.500" to 2"	1/4"	.007"	1/2"	3385000	
PM1	100-300	6.35	0.25	12.7	3380001		P01	.75" to 7"	1/4"	.007"	1/2"	3385201	
PM1SP	50-600	6.35	0.25	12.7	3380101		P1	2" to 12"	1/4"	.010"	1/2"	3385001	
PM2	300-600	6.35	0.25	12.7	3380002		P1SP	2" to 24"	1/4"	.010"	1/2"	3385101	
PM2SP	300-900	6.35	0.25	12.7	3380102		P2	12" to 24"	1/4"	.010"	1/2"	3385002	
PM3	600-900	6.35	0.25	12.7	3380003		P2SP	12" to 36"	1/4"	.010"	1/2"	3385102	
PM3SP	600-1200	6.35	0.25	12.7	3380103		P3	24" to 36"	1/4"	.010"	1/2"	3385003	
PM4	900-1200	6.35	0.25	12.7	3380004		P3SP	24" to 48"	1/4"	.010"	1/2"	3385103	
PM5	1200-1500	6.35	0.25	12.7	3380005		P4	36" to 48"	1/4"	.010"	1/2"	3385004	
PM6	1500-1800	6.35	0.25	12.7	3380006		P5	48" to 60"	1/4"	.010"	1/2"	3385005	
PM7	1800-2100	6.35	0.25	12.7	3380007		P6	60" to 72"	1/4"	.010"	1/2"	3385006	
PM8	2100-2400	6.35	0.25	12.7	3380008		P7	72" to 84"	1/4"	.010"	1/2"	3385007	
PM9	2400-2700	6.35	0.25	12.7	3380009		P8	84" to 96"	1/4"	.010"	1/2"	3385008	
PM10	2700-3000	6.35	0.25	12.7	3380010		P9	96" to 108"	1/4"	.010"	1/2"	3385009	
PM11	3000-3300	6.35	0.25	12.7	3380011		P10	108" to 120"	1/4"	.010"	1/2"	3385010	
PM12	3300-3600	6.35	0.25	12.7	3380012		P11	120" to 132"	1/4"	.010"	1/2"	3385011	
1							P12	132" to 144"	1/4"	.010"	1/2"	3385012	

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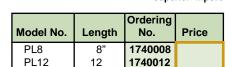
#### PRECISION LEVELS

**SERIES 258:** 



The main level is graduated to 10 second accuracy (1 division equals .0005" per 10").

Body of level is made of cast iron and base is hand scraped for extreme accuracy. Base is "V" shaped for checking round work. Plastic grips on frame insulate instrument from heat of hand.







**SERIES 789:** 



#### SMALL BENCH LEVEL

**STARRETT SERIES 130:** 



3-3/8"/85mm long with sensitive and accurate single vial. Sturdy body made of seasoned cast iron with black wrinkle finish and nickel plated ends. Accurately machined base leveling surface.

Size	Catalog No.	EDP No.	Price
3-3/8"/85mm	130	50560	

## MECHANICS' IMPROVED LEVELS

**STARRETT SERIES 98:** 



Levels have ground and graduated main vials. All levels have cross test vial, except 4" size. 12" size has in addition a plumb vial, and 18" size a double plumb vial. Plumb vials on 12" and 18" levels are ground. Main vials are adjustable for positive setting and housed in a satin-chromed brass tube with friction fit closing cover to prevent breakage. Level base are of the finest seasoned castings with black wrinkle finish, accurately machined and finished on bearing surface. An involute longitudinal groove between bearing flats provides accurate seating on round work.

#### **SPECIFICATIONS**

Size	Catalog No.	EDP No.	Price
4"	98-4	50440	
6	98-6	50441	
8	98-8	50442	
12	98-12	50443	
12	982-12*	50444	
18	98-18	50445	
18	982-18*	50446	

<sup>\*</sup> Supplied in fitted case.

## **CROSS TEST LEVEL AND PLUMB**

**STARRETT SERIES 134:** 

For approximate squaring, leveling, machine set up. Has two vials at right angles for cross test leveling without moving tool and a plumb level at the top for checking squareness.

Reliable and compact, weighs 3 ounces.

Size	Catalog No.	EDP No.	Price
2" x 3" x 1/2"/ 50 x 75mm	134	50569	

### **MASTER PRECISION LEVEL**

**STARRETT SERIES 199:** 



For critical machinery set-ups of all types. Ground and graduated main vial of 10-second accuracy – one division equals .0005" per foot. Auxiliary level vial shows lateral position as guide to horizontal setting. Insulated from handling by non-conductive top plate. Level vials positioned to reduce breakage. Made of seasoned cast iron. Base carefully machined and scraped. Black wrinkled finish on non-working surfaces. Furnished in wood case.

Length Base	Width Base	Height Level	Catalog No.	EDP No.	Price
15"/ 380mm	1-5/8"/ 40mm	3"/75mm	199Z	50719	

#### CROSS TEST LEVEL

STARRETT SERIES 136:



Has two vials at right angles for leveling in both directions without moving level from work. Compact, measuring 2-3/4" x 2-3/4" and weighs only 4 ounces. Attractive black wrinkle finish and a ground reference surface.

Catalog No.	EDP No.	Size	Description	Price
136	50572	2-3/4" x 2-3/4"	With cross test vials	

#### BENCH LEVELS

**STARRETT SERIES 132:** 



All have main vial and double plumb vial with two graduated lines. Made of seasoned cast iron with black wrinkle finish, accurately machined on leveling surfaces. Bottom of base has involute groove for accurately seating level on cylindrical work. Flat lands and groove in the bottom of the base are machined at one setting, thereby assuring complete accuracy.

Size	Catalog No.	EDP No.	Price
6"150mm	132-6	50562	
9"-225mm	132-9	50563	
12"-300mm	132-12	50564	
24"-600mm	132-24	50566	

#### **POCKET LEVELS**

**STARRETT SERIES 135:** 



Handy level, satin nickel plated finish. Available in 2-1/2" and 3-1/2" sizes made from hexagonal stock 3/8" and 1/2" wide respectively. Made with convex ends.

Description	Size	Catalog No.	EDP No.	Price
With main vial	2-1/2"	135A	50570	
With main vial	3-1/2	135B	50571	











## MASTER PRO™ MAHOGANY/ALUMINUM LEVELS



These levels are top of the line for Starrett-Exact products. Often prized by craftsmen, they are not only accurate and sturdy, but attractive and easy to handle.

#### Limited Quantities

 Mahogany construction, reinforced with an aluminum I-beam frame and working edge.

Starrett - EXACT ®

- Tough, yellow Pyrex vials with large bubbles and ceramic fired lines for fast, dependable reading.
- Clear glass windows protect vials from dirt and damage.
- Shock-absorbing end caps protect working edges and preserve accuracy.
- Holes for convenient hanging.

Size In.		Description	Catalog No.	Order No.	Price
24" 48"	60 cm 120 cm	6 Vials (4 Plumb, 2 Level)	MP-24 MP-48	36004 36008	
		8 Vials (4 Plumb, 4 Level), and Door Jamb Roller	MP-72 MP-78	36009 36010	

## **BRASS BOUND MAHOGANY**

**BB SERIES** 



These fine levels are crafted from fine mahogany and brass. A fine addition to the shop of a discriminating craftsman.

- Levels are made of finest mahoga Brass edges provide added ny and are permanently reinforced with double angle brass bindings.
- Tough, yellow Pyrex vials with large bubbles and ceramic fired lines for fast, dependable reading.
- Clear glass windows protect vials from dirt and damage.
- stability and wear for increased accuracy.
- Shock-absorbing end caps protect working edges and preserve accuracy.
- Size Size Catalog Order Metric Description Price ln. No. No. 24" BB-24 36014 60 cm 6 Vials (4 Plumb, 2 Level) 120 cm BB-48 36016 Open Grips

#### **ALUMINUM LINE/POCKET LEVELS PE SERIES**



Lightweight, durable aluminum construction prevents line sag. Sure-grip line hooks hold line and allows level to slide freely. Flat base for accurate surface leveling. Large vial sight. Permanently marked for fast, dependable readings.

Length	Description	Catalog No.	EDP No.	Price
3"	1 level vial with line hooks	E-3	36077	

## **DIE-CAST ALUMINUM LEVEL**



- Extremely stable, die-cast construction.
- Working edges ground for accuracy, one edge ruled (1/8" and millimeters)
- Yellow vials with large bubbles and ceramic fired lines for fast dependable reading.
- Clear glass windows protect vials from dirt and damage.

	Size Metric		Catalog No.	Order No.	Price
24"	60 cm	6 Vials (4 Plumb, 2 Level) Ruled Edge	EP-24	36022	

## MASTER PRO HEAVY-DUTY DIE-CAST **ALUMINUM MECHANICS' LEVELS**

**ML Series** 



- Six function mechanics' level will level, plumb, check 45°, check pitch set pitch, and measure length.
- Extremely stable, die-cast construction.
- Graduated top-sight level vial indicates pitch (1/8" per foot)
- Working edges ground for accuracy.
- · Clear glass windows protect vials from dirt and damage.
- Permanently marked rule affixed to top reads left to right (1/16") on one side and centering rule (1/8") on other.
- Locking pitch/grade-screw adjustment.
- Tough, yellow Pyrex vials with large bubbles and ceramic fired lines for fast dependable reading.

 Size Metric	Description	Catalog No.	Order No.	Price
			36031 36032	

## PROFESSIONAL STA-TRUE™ ALUMINUM LEVELS

STE Series / MST Series with Magnetic Edge



- One-piece extruded aluminum frame. Large magnetic strip mounted flush I-beam cross-section with flanged
- edges for increased strength
- Permanently mounted acrylic vials require no adjustment.
- Rectangular vial sights with 360° viewing
- to the working edge on one side of the MST Series models for increased holding power. Frees hands when leveling on ferrous surfaces.

Size	Size		Catalog	Order		
ln.	Metric	Description	No.	No.	Price	
	STE Series					
24"	60 cm	3 Vials (1 Plumb, 1 Level, and 45°)	STE-24	36053		
36"	90cm	3 Vials (2 Plumb, 1 Level)	STE-36	36055		
48"	120cm		STE-48	36056		
72"	180cm	5 Vials (3 Plumb, 2 Level)	STE-72	36057		
96"	240cm		*STE-96	36059		
		MST Series				
24"	60cm	3 Vials (2 Plumb, 1 Level),	MST-24	36062		
48"	120cm	One Magnetic Edge	MST-48	36064		
72"	180cm	4 Vials (2 Plumb, 2 Level)	MST-72	36065		

<sup>\*</sup> Made by special order







## ALUMINUM TORPEDO LEVELS WITH GROOVED OR MAGNETIC BASE

A-9 / M-9



These levels have a cast aluminum frame with working surfaces that are ground for accuracy. The A-9 has a V-grooved base for plumbing and tubular work. The M-9 has a strong magnet set in the base to hold the level securely to iron and steel surfaces.

Ва	se	Description	Catalog No.	Order No.	Price
		3 Vials (1 Plumb, 1 Level, and 45°) Side and Top Reading	A-9 M-9	36069 36070	

# ALUMINUM TORPEDO LEVEL WITH MAGNETIC BASE AND GROOVED TOP SURFACE™

AM-9

This level has a cast aluminum frame with working surfaces that are lapped for accuracy. A strong magnetic base holds the level securely to iron and steel surfaces. The V-grooved top working surface is ideal for plumbing and tubular work.

Description	Catalog No.	Order No.	Price
3 Vials (1 Plumb, 1 Level, 1 45°) Side and Top Reading	AM-9	36071	

## COLORED TORPEDO LEVEL W/MAGNETIC BASE AND GROOVED TOP EDGE



#### **PLM Series**

Levels feature a precision molded, high impact styrene frame and are available in three colors. Levels with magnetic base hold securely to ferrous surfaces and a V-grooved top edge for plumbing and tubular work.

Color	Description	Catalog No.	Order No.	
Black Orange	3 Vials (1 Plumb, 1 Level, 1 45°)	PLM-9*	36074 64409	
*Limi	ted Quantity			

## COLORED LINE/POCKET LEVELS WITH V-GROOVED BASE

**PE Series** 

Lightweight, rugged plastic construction prevents line sag. Sure-grip line hooks hold line and allows level to slide freely. V-grooved base for surface leveling and tubular work. Large top and bottom vial sights. Permanently marked level vial for fast, dependable readings. Handy pocket clip. Available in three colors.



Color	Description	Catalog No.	Order No.	Price
	1 Vial Level and pocket clip	PE-2 PEG-2	36076 36266	

## HEAVY-DUTY ALUMINUM TOP READING LEVELS - BC-TA SERIES

**BC-MTA SERIES** With Magnetic Edge With Unbreakable, Adjustable Block Vial System



- Heavy duty aluminum I-beam frame
- Large top-reading level vial is magnified, florescent and open on three sides for easy viewing.
- Spring loaded level vial is easily
- checked and adjusted for level and plumb on the job.
- Magnetic edge version frees hands when leveling ferrous metal surfaces

Size In. Metric		Description	Catalog No.	Order No.	Price	
		BC-TA Series				
24"	60 cm	3 Vials, Adjustable Vials	-	0036377		
48"	120 cm	(2 Plumb, 1 Top-Reading Level)	BC-TA-48	0036378		
	BC-MTA Series With Magnetic Edge					
24"	60 cm	3 Vials, Adjustable Vials	BC-MTA-24	0036379		
48"	120 cm	(2 Plumb, 1 Top-Reading Level)	BC-MTA-48	0036380		

#### **ECONOMY ALUMINUM LEVELS**



- Medium-duty aluminum I-beam cross section with flanged edges for increased strength. Large octagonal vial sights for maximum visibility
- Permanently mounted 360° vials require no adjustment

Size	Description	Catalog No.	EDP No.	Price
18"	2 vials (1 plumb, 1 level)	ST2-18	36042	
24"	2 vials (1 plumb, 1 level)	ST2-24	36043	
24"	3 vials (2 plumb, 1 level)	ST3-24	36044	
48"	3 vials (2 plumb, 1 level	ST3-48	36048	

#### **ANGLE METER - AM-2**

This angle meter from Starrett offers a fast, easy and inexpensive way to measure angles.

#### **FEATURES:**

- Large, readable scale for accurate readings from 0-90° in any quadrant.
- Magnetic base frees hands when used on ferrous surfaces.
- Measures any angle for pitch or slope.
- Handy rise, run, angle, and pitch information on back of tool

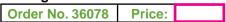
#### Catalog No. AM-2

Order No. 36080 Price:

#### **BULL'S-EYE CIRCULAR LEVEL - BE-1**

- Level with all purpose, 360° vial reads in all directions.
- Sturdy plastic construction.
- · Large sight for ease of reading.
- Ideal for home, workshop and industry.
- Level appliances, turntables, etc.
- 1-3/4" diameter, carry in your pocket.

#### Catalog No. BE-1





## ACHINE SHOP DISCOUNT SUPPLY



## PORTABLE SPRAY COOLANT SYSTEMS

**SERIES 372:** 





#### **DL SPRAY SYSTEM**

The DL provides cooling solutions for light duty machining and tool room applications. The DL dispenser is easy to install requiring only shop air and dropping the siphon line into a coolant tank. **FEATURES:** 

- 7 inch flexible segmented nozzle.
- 7 foot coolant line with stainless steel filter.
- 60 pound magnetic base with mounting arm.
- 1/8" NPT air inlet fitting.

Description	Order No.	Price
DL Spray System DL Spray System with 1 quart Tricool	30660 30655	

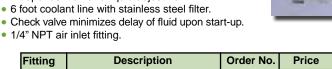


#### **DL MAGNUM SPRAY SYSTEM**

The DL Magnum provides cooling solutions for light duty machining and tool room applications. The DL Magnum is easy to install requiring only shop air and dropping the siphon line into a coolant tank. **FEATURES:** 

- 15 inch flexible metal conduit.
- Independent air and liquid adjustment.

Fitting	Description	Order No.	Price
	DL Magnum	30632	
1/4 NPT	DL Magnum w/1 quart Tricool	30633	



## **SPRAY COOLANT SYSTEMS MISTMATIC®**

The Mistmatic offers a wide range of coolant delivery patterns. The pressure pumping design allows use with a wide range of coolants compatible with Buna-N seals and lower than 1000 SUS viscosity. Auto electric models, 120 VAC, can be interfaced with machine controls for cyclic capabilities.



#### **FEATURES:**

- 7 inch plastic nozzle with control valve.
- One or two outlets with 5 ft. brass armored lines.
- Independent air and liquid adjustment at the nozzle.
- 1 gallon dimensions, 10-1/2" H x 8-1/2" W x 6" D.
- 4 gallon dimensions, 14-1/2" H x 17-1/2" W x 9" D.

Capac	ity (gal.)	No. of	Control	Order	
Plastic	Stainless	Lines	Mode	No.	Price
1	-	1	Manual	30600	
i	-	2	Manual	9930601	
4	-	1	Manual	9930602	
4	-	2	Manual	30603	
1	-	1	Auto	30604	
1	-	2	Auto	30605	
4	-	1	Auto	30606	
4	-	2	Auto	9930607	
-	1	1	Manual	30608	
-	1	2	Manual	30609	
-	1	1	Auto	30610	
-	1	2	Auto	30611	

#### **SPRAYMASTER®**

Spraymaster systems provide convenient spray cooling in metal cutting. Requiring only compressed air as a power source, these units are easily installed in many machining applications.

#### **FEATURES:**

- Independent air and liquid adjustment.
- 4 inch brass nozzle.
- 1 or 2 outlet with 5 ft. brass armored line.
- 1 gallon reservoirs available in polyethylene and stainless steel.
- Sight gauge for viewing liquid level.
- Polyethylene reservoir dimensions -12-1/4" H x 10" W x 5-1/4" D.
- Stainless steel reservoir dimensions 9-3/8" H x 8-3/8" W x 5-1/4D".

Reservoir	No. of Lines	Order No.	Price
Polyethylene	1	30542	
	2	30543	
Stainless Steel	1	30548	
	2	30549	

## SPRAYMASTER II®

The Spraymaster II is designed for applications where the ability to cycle the delivery is required. Solenoid control of spray coolant allows instant on-off operation for use in fixtured secondary machining.

**FEATURES:** 

- 7 Inch flexible plastic nozzle.
- 1 or 2 outlet with 5 ft. brass armored lines.
- Independent air and liquid adjustment.
- Size 12-1/2" H x 10" W x 5-1/4" D

Description	Order No.	Price
Spraymaster II w/ One Line	30458	
Spraymaster II w/ Two Lines	30459	

## LI'L MISTER® SYSTEM

The compact size with a 1 quart reservoir makes the Li'l Mister ideal for tool room and other light duty machining applications. Typical applications include drilling, milling, turning, grinding and tapping.

- Sight gauge for viewing of liquid level.
- 4 ft. plastic or brass armored line.
- Independent air and liquid adjustment.
- 3 inch straight brass nozzle.
- Size 8-1/2" H x 5-1/4" W x 4" D.

Description	Order No.	Price
Li'l Mister with Plastic Lines	30540	
Li'l Mister with Brass	30541	
Armored Lines		

# "SST" SPRAY COOLANT SYSTEMS

#### The "SST" coolant systems offers spray cooling with features normally costing much more. This unit is designed for production type applications where less frequent filling is desirable. Quality construction is

#### evident in the 1 gallon stainless steel reservoir. FEATURES:

- · Independent air and liquid adjustment.
- 6 inch brass nozzle.
- 1 or 2 outlet with 4 ft. plastic line.
- Size 8-7/8" H x 8-3/8" W x 5-5/32" D.

Description	Order No.	Price
"SST" Spray System w/ One Line	30546	
"SST" Spray System w/ Two Lines	30547	







## PORTABLE SPRAY COOLANT SYSTEMS

**SERIES 372:** 





### TYPE "B" SPRAY COOLANT SYSTEMS

This system provides spray coolant delivery at up to six separate locations. Each line can be individually set for exact delivery. Independent air and coolant controls enable users to balance the delivery of coolant to each application. Type B models are suited to applications where multiple cutting locations, large diameter tools or higher heat transfer requirements are desired.



#### **FEATURES:**

- 5 gallon polyethylene reservoir.
- 1 to 6 outlet with 5 ft. brass armored delivery lines.
- Independent air and liquid adjustment.
- Reservoir handle for portability.
- Size 15"H x 12 3/8" Diameter.

Description	Order No.	Price
"B" Spray Coolant System One Line	9930550	
"B" Spray Coolant System Two Lines	30551	
"B" Spray Coolant System Three Lines	30552	
"B" Spray Coolant System Four Lines	30553	
"B" Spray Coolant System Five Lines	30554	
"B" Spray Coolant System Six Lines	30556	

## SYNTHETIC COOLANT TRI-COOL®

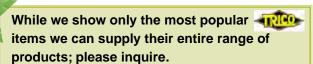
For flood cooling and spray applications, Tri-Cool synthetic coolant is designed to provide optimum performance and long life for most metal cutting operations. Tri-Cool is excellent for use with ferrous and non-ferrous metals including stainless steel, aluminum, titanium, brass, bronze, and copper. It can be used for milling, tapping, drilling, grinding, turning, and sawing.



#### **FEATURES:**

- Non-hazardous synthetic formula improves operator safety.
- Synthetic E.P. Additives reduce heat build-up and extend tool life.
- Corrosion resistant even at high dilutions for improved rust protection.

Description	Order No.	Price
Gallons 4/Case	306561	
5 Gallon Pail	30657	





#### MICRO-DISPENSING SYSTEM

MD - 1200 MICRO-DROP®

The MD - 1200 dispenser provides a cost effective solution when flood cooling is impractical or unavailable. When used in milling, tapping, and sawing applications, the MD - 1200 dispenses small amounts of lubricant. Compared to flood cooling, there is no coolant sump to maintain or used coolant to dispose of. When compared to dry machining the MD - 1200 offers higher material removal rates, improved part finish, longer tool



life, and tighter dimensional tolerances. Solenoid versions allow these units to be interfaced with CNC controls or other signaling devices. The pressurized delivery system of the MD - 1200, provides instant on-off performance when used with the solenoid control. Control module versions replace the air and liquid controls at the unit with controls located at the nozzle. This allows the operator to easily adjust the air and liquid setting in toolroom applications.

#### **FEATURES:**

- Available in 18" flexible plastic nozzle or 13" flexible copper nozzle.
- . 6 Foot plastic delivery lines.
- Auto electric models come with a 120 VAC Solenoid.
- Size 7.06"H x 10.09"W x 7.06"D.

Nozzle Type		Control Module	Control Mode	Order No.	Price
Plastic	1	No	Manual	9930801	
Plastic	2	No	Manual	930802	
Plastic	1	No	Auto	30805	
Plastic	2	No	Auto	9930806	
Copper	1	No	Manual	30813	
Copper	2	Yes	Manual	30814	
Copper	2	Yes	Manual	30816	
Copper	1	No	Auto	30817	
Copper	2	No	Auto	30818	

#### MICRO-DROP® LUBRICANT

These environmentally safe lubricants can be used in nearly all machining applications. With the use of the Micro-Drop dispensing system, more effective machining productivity and savings in fluid costs can be achieved.

Both vegetable and synthetic lubricants can be used in many applications and with all metals. Vegetable lubricant performs more efficiently in high demanding machine operations because of its high lubricity and clinging power. The synthetic lubricant



works in most applications where the depth of cut is not great.

	Synthe Heavy		Vegetable "NDF"		
Size	Order No.	Price	Order No.	Price	
Gallons - 4/Case	306591		9306481		
5 Gallon Pail	30662		30647		
4oz. Squeeze Bottle -12/case	-		30678		

## MACHINE SHOP DISCOUNT SUPPLY





## MACHINE TOOL COOLANT UNITS SERIES 708:

Little Giant "Flood Type" Machine Tool Coolant Units are designed for use with virtually any machine tool operational need. Units are engineered so that the flow of coolant liquids can be regulated to desired amount or completely shut off without harmful affects to the motor.



#### Model VMC - 1

Order No 560610 Price

For use on small drill presses, tool grinders, tapping machines and small lathe equipment. Includes one gallon plastic tank, with screen and chip collector, tubing, flow rate nozzle, and pump with fan-cooled motor. 4' power cord with 3-prong molded plug.

Thermally protected. 108 GPH.\*

\*GPH rate shown with Nozzle in place. 420 GPH without Nozzle.

#### SPECIFICATIONS:

115 Volt, 1/50 H.P., 1 Amp., 80 Watt.

#### **DIMENSIONS:**

9-1/4 H x 12 L x 6 W, 6 lbs.



#### **Model MCT-5P**

Order No 560040 Price

For use on single-spindle drill presses, bench mills, tool grinders, single-spindle tapping machines, cut off saws, small lathes using water soluble or light cutting oil. Includes five gallon polyethylene tank, metal chip collector basket, baffle, 6' plastic hose, plastic flex nozzle and brass control valve, and all adapters and fittings for use with recommended pumps. (See Recommended Pump List below).

#### **DIMENSIONS:**

8 H x 10-15/16 L x 16-9/16 W, 19 lbs.

#### NOTE:

This unit does not include pump. Pump must be purchased in addition to MCT-5P Unit.



#### **Model MCT-10**

Order No 560300 Price

For use with medium size lathes, grinders, cut off machines, milling and drilling machines using water soluble or light cutting oil. Includes ten gallon metal tank with baffle, 4' neoprene hose with brass nuts, plastic flex nozzle and brass control valve. Removable chip collector tray and splash deflector, plus all adapters and fittings for use with recommended pumps.

(See Recommended Pump List below).

#### **DIMENSIONS:**

11-3/8 H x 10L x 25 H, 31 lbs.

#### NOTE:

This unit does not include pump. Pump must be purchased in addition to MCT-10 Unit.

#### RECOMMENDED PUMPS FOR UNITS: MCT-5P AND MCT-10 See chart below for pump specifications.

For MCT	Pump Model	Pump Catalog		Wat	G.P. er Sol	H. uble O	il		100	G.P. SSU/C		Oil		300		P.H. Cutting	g Oil
Unit	No.	No.	1'	3'	6'	12'	Shut Off'	1'	3'	6'	12'	Shut Off'	1'	3'	6'	12'	Shut Off'
MCT-5P MCT-5P	1-YS NK-1	501020 526003	72 70	60 60	36 40		7.4 10.2	24 24	14 14	6		3.5 5.0					
MCT-5P	NK-2 3E-12N	527003 503103	82 127	78 123	64 113	6 89	12.2 22.4	35 89	29 86	19 79	2 62	6.1 16.8	70	65	60	47	15.7
MCT-5P MCT-10	4E-34N 3E-12N	504103 503103	134 197	129 192	119 182	100 155	24.3 22.4	95 139	89 133	81 123	68 105	18.3 16.8	75 108	71 100	64 93	54 80	17.5 15.7
MCT-10 MCT-10 MCT-10	4E-34N 5-MSP 6-CIM-R	504103 505000 506271	210 212 185	204 208 178	192 198 163	162 167 118	24.3 26.8 18.5	157 161 138	156 159 136	150 154 127	126 129 92	19.4 21.4 14.7	124 127 108	123 125 107	120 123 101	100 102 73	18.6 20.5 14.0

#### **PUMP SPECIFICATIONS**

Pump Model No.	Volts	H.P.	AMP/ WATT	Weight	Dimensions (HxLxW)	Pump Order No.	Price
1-YS	115	1/150	1.1/70	3.4	4-1/4 x 4-1/8 Dia.	501020	
NK-1	115	1/150	1.1/70	3.4	4-9/16 x 4-1/8 Dia.	526003	
NK-2	115	1/40	1.7/100	4.1	4-9/16 x 4-1/8 Dia.	527003	
3E-12N	115	1/15	3.2/200	8.3	5-1/2 x 7 x 4-1/2	503103	
4E-34N	115	1/12	3.5/210	10.1	5-1/2 x 7 x 4-1/2	504103	
5-MSP	115	1/6	5/380	8.25	7-3/4 x 6-1/16 x 4-5/16	505000	
6-CIM-R	115	3/10	9/720	16.5	7-1/4 x 9-1/2 x 7-1/4	506271	





## **COOLING SUPPLIES**

SERIES 690:





#### **COOLANT PUMPS AND TANKS**

Expressly built for those jobs which circulate coolant liquids and cutting oils separating chips, grit and abrasives.

- 1 Phase, 60 Cycle
- Made in USA

- Complete less hose assembly which can be ordered separately.
- 1/20 H.P. recommended for soluble oil and lightweight cutting oil only.
- 1/3 H.P. and larger recommended for all general purposes.





#### **HOSE ASSEMBLY**

Includes: 4 ft. neoprene hose, valve, 15 in. flex hose with nozzle

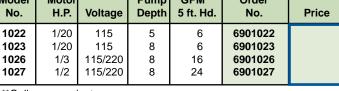
Description	Order No.	Price
Complete Flex Hose & Valve only	6900001 6900002	
Hose only	6900003	

#### Motor Model Motor Tank Tank GPM\* Order Price No. Voltage H.P. Size **Dimensions** Height 5ft.Hd. No. 521 5 gal. 12 Dia. x 13 H 6900521 115 1/20 5 in. 6 24 L x 12.5 W x 9.5 H 1021 6901021 115 1/20 10 gal. 5 in. 6 115/220 6901025 1025 1/3 10 gal. 24 L x 12.5 W x 9.5 H 8 in. 16 1030 115/220 20 gal. 30 L x 16 W x 10 H 16 6901030 1/3 8 in. 1035 115/220 1/2 20 gal. 30 L x 16 W x 10 H 8 in. 24 6901035 6901040 36 gal. 36 L x 18 W x 13 H 24 1040 115/220 1/2 8 in.

## **COOLANT PUMPS**

- Pump and motor only.
- For replacement of old units or for use in building your own unit.

Model No.	Motor H.P.	Voltage	Pump Depth	GPM** 5 ft. Hd.	Order No.	Price
1022	1/20	115	5	6	6901022	
1023	1/20	115	8	6	6901023	
1026	1/3	115/220	8	16	6901026	
1027	1/2	115/220	8	24	6901027	



<sup>\*\*</sup>Gallons per minute

## **MAGNETIC** ADJUSTABLE HOLDER

For locating and holding nozzle in any position. Use with either liquid or mist systems.



Order I	No. 6900	150	Price
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#### MIST COOLANT SYSTEMS

· All with metal lines.

The heat of the tool and the part is more rapidly and thoroughly dissipated because a sprayed coolant mist exposes a greater fluid surface area and is thus capable of absorbing more heat faster. This extends tool life for lower costs per part.



#### SINGLE CONTROL UNITS

Model No.	Description	Order No.	Price
10	1 gal. plastic container, 1 outlet	6901010	
20	1 gal. plastic container, 2 outlets	6901020	

#### **DUAL CONTROL UNITS**

Mode No.		Description	Order No.	Price
90 92 1008 1028 3500 3520	2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 gal. plastic container, 1 outlet 1 gal. plastic container, 2 outlets 1 gal. stainless tank, 1 outlet 1 gal. stainless tank, 2 outlets 3.5 gal. metal tank,1 outlet 3.5 gal. metal tank, 2 outlets	6900090 6900092 6900100 6900102 6900350 6900352	



#### **MIST COOLANT FLUID: M-16**

#### **Specially Concentrated:**

- Increases tool life
- No-fogging odorless
- For machining and tapping Contains rust preventative
- Container Standard Order Size\* **Package** No. **Price** 6903010 1 Gallon 4 / case

## LINE ASSEMBLY

Description	Order No.	Price
4 ft. metal hose 45° nozzle	6900011 6900013	



<sup>\*\*</sup> Gallons per minute. \* Round

Larger container sizes available; please inquire.



## **MAGNETIC BASE COOLANT HOSE SYSTEMS**

**SERIES 221:** 

- Quickly attach to any metallic surface.
- Strong holding power.
- 1/4" dia. flexible coolant hoses attached to on-off magnetic base.

No. & Length of Coolant Hoses	Base Size	Order No.	Price
1 x 14"	2-3/4 x 2 x 2-7/8"	2390114	
2 x 14"	2-3/4 x 2 x 2-7/8"	2390214	
3 x 15"	2-3/4 x 2 x 2-7/8"	2390315	





NOGA

AQUAFLO® SERIES 986:







#### COOLANT DISPENSER

Deluxe water-soluble oil dispensers enable you to take even heavy cuts such as in "flycutting". Compact in size, one-knob control instantly starts up and shuts down the nozzle. Spray settles on cutting tool and workpiece; will not clog or fog up your plant. Minimum air pressure 25 PSI with Maximum 80 PSI. Built to last.

#### SINGLE AQUAFLO®

Single coolant nozzle comes with bracket for fast attachment on to any 1/4" dia. fitting on your machine tool. Supplied with 2 each 4 foot length lines; one NPT fitting air line and one suction hose line. Works with any coolant container (not included).

Model No. 14014

Order No. 8614014 | Price:

CUTTING FLUID APPLICATOR

SERIES 79:

MINICOOL - for maximum heat dissipation and extended tool life.



- Strong magnetic base
- Separate on/off and fluid controls
- Stainless steel armored siphon hose and air hose
- Nozzle connected via LOC-LINE flexible hose
- Simple, inexpensive, rugged

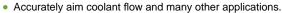
Order No. 9861700 | Price:



While we show only the most popular items we can supply their entire range of products; please inquire.

## THE ORIGINAL MODULAR HOSE SYSTEM SERIES 692:

SERIES 692



- · Repeated positioning is easy and it will stay in position without any springback.
- Chemically resistant to petroleum products, coolants and most common chemicals. (also available in acid resistant polyester).
- Electrically non-conductive.
- Designed for low pressure applications.

The following specifications are guidelines for all Loc-Line® coolant hose systems: LINE PRESSURE & FLOW RATES:

1/4" System 30-50PSI 250 Gal./Hr.

1/2" System 20-30PSI 478 Gal./Hr.

3/4" System 10-20PSI 1,140 Gal./Hr.

 Temperature specifications are as follows: Melting point 329°F

Maximum operating temperature: 170°F

(Continued)







## Tel 201.518.8472 / 800.388.0459 (USA & CANADA) / Email sales@msdiscounttool.com



# THE ORIGINAL MODULAR HOSE SYSTEM

## R HOSE SYSTEM SERIES 692:

1/4" SYS	TEM • 1/4" INSIDE DIAMETER
	1/4" Hose Kit 13" Length with Fittings: 2 - 5-3/4" Segments 1/4", 1/8", 1/16" Nozzles 1/4" & 1/8" Male NPT Connectors Order No. 9240413 Price:
AVLLA	1/4" Flared Tubing Replacement Pack: 8 - 5-3/4" Segments 1 - 1" Flare Nozzle Includes 4 ea. of: 3/8" Flare Nut Adapters 1/8" Round Nozzles 1/4" Round Nozzles Order No. 9240452 Price:
	1/4" 90° Nozzle Kit: 1 ea. 1/16", 1/8", 1/4" & 1/4" Spray Bar Nozzles Order No. 9241474 Price:
	1/4" Extended Element Kit with Element Clamps, Includes 4 ea. of: 1/4" Extended Elements 1/4" Element Clamps Order No. 9241475 Price:
0	1/4" Circle Flow Nozzle Kit Assembled with 15 Side Flow Nozzles 1/4", & 1 End Cap 1/4" Order No. 9241479 Price:
	1/4" Segment Pack (2-5-3/4" pcs.) Order No. 9241401 Price: 1/4" Segment Pack Bulk 25 ft. Order No. 9249420 Price: 1/4" Segment 50 ft. Coil. Order No. 9241421 Price:
I	1/4" Extended Elements, Pack of 4 Order No. 9241476 Price: Pack of 20 Order No. 9249445 Price:
	1/4" Element Clamp, Pack of 4 Order No. 9241477 Price: Pack of 20 Order No. 9249446 Price:
	1/16" Round Nozzles, Pack of 4 Order No. 9241402 Price: Pack of 50 Order No. 9249422 Price:

	1/8" Round Nozzles, Pack of 4 Order No. 9241403 Price: Pack of 50 Order No. 9249423 Price:
	1/4" Round Nozzles, Pack of 4 Order No. 9241404 Price: Pack of 50 Order No. 9249424 Price:
	1/16" 90° Nozzles, Pack of 4 Order No. 9241470 Price: Pack of 20 Order No. 9249439 Price:
	1/8" 90° Nozzles, Pack of 4 Order No. 9241471 Price: Pack of 20 Order No. 9249440 Price:
	1/4" 90° Nozzles, Pack of 4 Order No. 9241472 Price: Pack of 20 Order No. 9249441 Price:
	1/4" 90° Spray Bar Nozzles, Pack of 2 Order No. 9241473 Price: Pack of 20 Order No. 9249442 Price:
	1" Flare Nozzles, Pack of 2 Order No. 9241407 Price: Pack of 20 Order No. 9249427 Price:
Diğen.	1/8" NPT Connectors, Pack of 4 Order No. 9241405 Price: Pack of 50 Order No. 9249425 Price:
	1/8" BSPT* Connectors, Pack of 4 Order No. 9241417 Price: Pack of 50 Order No. 9249437 Price: *British Standard Pipe Thread
	1/4" NPT Connectors, Pack of 4 Order No. 9241406 Price: Pack of 50 Order No. 9249426 Price:
	1/4" BSPT* Connectors, Pack of 4 Order No. 9241418 Price: Pack of 50 Order No. 9249438 Price: * British Standard Pipe Thread

- 10	1/4"Y Fittings, Pack of 2
me K	Order No. 9241408 Price: Pack of 20
	Order No. 9249428 Price:
	1/4" Double Sockets, Pack of 4 Order No. 9241409 Price: Pack of 20
	Order No. 9249429 Price:
	1/4" Socket to 1/8" FNPT, Pack of 4 Order No. 9241411 Price: Pack of 20 Order No. 9249431 Price:
	3/8" SAE Flare Nut Adapters, Pack of 4 Order No. 9241412 Price: Pack of 20 Order No. 9249432 Price: (5/8-18 Thread)
Bet	1/4" SAE Flare Nut Adapters, Pack of 4 Order No. 9241414 Price: Pack of 20 Order No. 9249434 Price: (7/16-20 Thread)
7	1/4" Elbow Fittings, Pack of 2 Order No. 9241415 Price: Pack of 20 Order No. 9249435 Price:
-	1/4" T Fittings, Pack of 2 Order No. 9241416 Price: Pack of 20 Order No. 9249436 Price:
7	1/4" Side Flow Nozzles, Pack of 4 Order No. 9241478 Price: Pack of 20 Order No. 9249443 Price:
	1/4" End Caps, Pack of 4 Order No. 9241480 Price: Pack of 20 Order No. 9249447 Price:
1	1/4" Swivel Nozzle 40, Pack of 2 Order No. 9241481 Price: Pack of 20 Order No. 9249449 Price:
	1/4" Swivel Nozzle 60, Pack of 2 Order No. 9241482 Price: Pack of 20 Order No. 9249450 Price:

# MACHINE SHOP DISCOUNT SUPPLY





#### THE ORIGINAL **MODULAR HOSE SYSTEM** SERIES 692:





#### 1/4" SYSTEM • 1/4" INSIDE DIAMETER

1/4" In-Line Check Valves Pack of 2 Order No. 9221191 Price:

(Continued)

Pack of 10 Order No. 9229451 Price:

1/4" Male NPT Valves Pack of 2:

Order No. 9221192 Price: Pack of 10

Order No. 9229452 Price:

1/4" Female NPT Valves Pack of 2 Order No. 9221193 Price:

Pack of 10 Order No. 9229453 Price:

1/4" In-Line Valves Pack of 2

Order No. 9221194 Price: Pack of 10 Order No. 9229454 Price:

1/4" Flat Slot 40 Nozzle Pack of 4 Order No. 9241483 Price:

Pack of 20 Order No. 9249451 Price:

1/4" Flat Slot 60 Nozzle Pack of 4 Order No. 9241484 Price:

Pack of 20 Order No. 9249452 Price:

1/4" Flat 5 Hole Nozzle Pack of 4

> Order No. 9241485 Price: Pack of 20 Order No. 9249453 Price:

1/4" Flat 7 Hole Nozzle

Pack of 4 Order No. 9241486

Price: Pack of 20 Order No. 9249454

Price:

1/4" Flat Nozzle Assortment Pack: 1/4" Flat Slot 40 Nozzle - 1pc.

1/4" Flat Slot 60 Nozzle - 1pc.

1/4" Flat 5 Hole Nozzle - 1pc. 1/4" Flat 7 Hole Nozzle - 1pc.

Order No. 9241487 Price:

Hose Assembly Pliers 1/4"

Order No. 9278001 Price: 1/4" & 1/2" Plier Set

Order No. 9278003 Price:

: 1/2" SYSTEM •	<b>1/2" INSIDE</b>	DIAMETER
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3/8" Round Nozzles

Order No. 9251802 Price:

Order No. 9259862 Price:

Pack of 4

Pack of 50

1	1/2" Round Nozzles Pack of 4 Order No. 9251803 Price: Pack of 50 Order No. 9259863 Price:
	1/4" 90° Nozzles Pack of 4 Order No. 9251828 Price: Pack of 20 Order No. 9259878 Price:
F	3/8" 90° Nozzles Pack of 4 Order No. 9251829 Price: Pack of 20 Order No. 9259879 Price:
1	1/2" 90° Nozzles Pack of 4 Order No. 9251830 Price: Pack of 20 Order No. 9259880 Price:
	1/2" 90° Spray Bar Nozzles Pack of 2 Order No. 9251831 Price: Pack of 20 Order No. 9259881 Price:
	1-1/4" Flare Nozzles Pack of 2 Order No. 9251807 Price: Pack of 20 Order No. 9259867 Price:
X	2-1/2" Flare Nozzles Pack of 2 Order No. 9251809 Price: Pack of 20 Order No. 9259871 Price:
1	3/8" NPT Connectors Pack of 4 Order No. 9251804 Price: Pack of 50 Order No. 9259864 Price:
	3/8" BSPT* Connectors Pack of 4 Order No. 9251826 Price: Pack of 50 Order No. 9259876 Price: *British Standard







# THE ORIGINAL MODULAR HOSE SYSTEM SERIES 692:

Tel 201.518.8472 / 800.388.0459 (USA & CANADA) / Email sales@msdiscounttool.com





#### 1/2" SYSTEM • 1/2" INSIDE DIAMETER (Continued)

	1/2" NPT Connectors Pack of 4 Order No. 9251805 Price: Pack of 50 Order No. 9259865 Price:
	1/2" BSPT* Connectors Pack of 4 Order No. 9251827 Price: Pack of 50 Order No. 9259877 Price: *British Standard Pipe Thread
省	1/2" Y Fittings Pack of 2 Order No. 9251808 Price: Pack of 20 Order No. 9259868 Price:
*	1/2" to 1/4" Y Reducers Pack of 2 Order No. 9251822 Price: Pack of 20 Order No. 9259870 Price:
13	1/2" to 1/4" Adapters Pack of 2 Order No. 9251821 Price: Pack of 20 Order No. 9259869 Price:
	1/2" Double Sockets Pack of 4 Order No. 9251811 Price: Pack of 20 Order No. 9259872 Price:
	3/8" SAE Flare Nut Adapters Pack of 4 Order No. 9251823 Price: Pack of 20 Order No. 9259873 Price: (5/8-18)
7	1/2" Elbow Fittings Pack of 2 Order No. 9251824 Price: Pack of 20 Order No. 9259874 Price:
*	1/2" T Fittings Pack of 2 Order No. 9251825 Price: Pack of 20 Order No. 9259875 Price:
-	1/2" Side Flow Nozzle Pack of 4 Order No. 9251836 Price: Pack of 20 Order No. 9259889 Price:

continued)	
	1/2" End Caps Pack of 4 Order No. 9251838 Price: Pack of 20 Order No. 9259885 Price:
충	1/2" In-Line Check Valves Pack of 2: Order No. 9232091 Price: Pack of 10 Order No. 9239851 Price:
	1/2" Male NPT Valves Pack of 2 Order No. 9232092 Price: Pack of 10 Order No. 9239852 Price:
	1/2" Female NPT Valves Pack of 2 Order No. 9232093 Price: Pack of 10 Order No. 9239853 Price:
	1/2" In-Line Valves Pack of 2 Order No. 9232094 Price: Pack of 10 Order No. 9239854 Price:
	1/2" Flat Slot 80* Nozzle Pack of 4 Order No. 9251840 Price: Pack of 20 Order No. 9259890 Price: * Slot Height .080"
A	1/2" Flat Slot 125* Nozzle Pack of 4 Order No. 9251841 Price: Pack of 20 Order No. 9259891 Price: * Slot Height .125"
	1/2" Flat 5 Hole Nozzle Pack of 4 Order No. 9251842 Price: Pack of 20 Order No. 9259892 Price: .125 Hole Diameter
	1/2" Flat 7 Hole Nozzle Pack of 4 Order No. 9251843 Price: Pack of 20 Order No. 9259893 Price: .080 Hole Diameter
	1/2" Flat Nozzle Assortment Pack: Contains 1 each 1/2" Flat Slot 80 Nozzle 1/2" Flat Slot 125 Nozzle 1/2" Flat 5 Hole Nozzle 1/2" Flat 7 Hole Nozzle Order No. 9251844 Price:





3/4" SYST	3/4" SYSTEM • 3/4" INSIDE DIAMETER			
	3/4" Hose Kit: 14" Length with Fittings: 2 - 5-3/4" Segments 5/8, 3/4" Nozzles 3/4" Male NPT Connector Order No. 9260513 Price:			
	3/4" Segment Pack (2-5-3/4" pcs) Order No. 9261501 Price: 3/4" Segment Pack Bulk 25 Ft. Order No. 9269540 Price: 3/4" Segment 50 Ft. Coil Order No. 9269541 Price:			
	5/8" Round Nozzles Pack of 4 Order No. 9261503 Price: Pack of 50 Order No. 9269543 Price:			
	3/4" Round Nozzles Pack of 4 Order No. 9261502 Price: Pack of 50 Order No. 9269542 Price:			
	3" Flare Nozzles Pack of 2 Order No. 9261507 Price: Pack of 20 Order No. 9269547 Price:			
	3/4" NPT Connectors Pack of 4 Order No. 9261505 Price: Pack of 50 Order No. 9269545 Price:			





# THE ORIGINAL MODULAR HOSE SYSTEM SERIES 692:





3/4" SYS	TEM • 3/4" INSIDE DIAMETER
	3/4" BSPT* Connectors Pack of 4 Order No. 9261509 Price: Pack of 50 Order No. 9269549 Price: *British Standard Pipe Thread
吹	3/4" Y Fittings Pack of 2 Order No. 9261511 Price: Pack of 20 Order No. 9269551 Price:
岐	3/4" to 1/2"Y Reducers Pack of 2 Order No. 9261512 Price: Pack of 20 Order No. 9269552 Price:
	3/4" to 1/2" Adapters Pack of 2 Order No. 9261508 Price: Pack of 20 Order No. 9269548 Price:
	3/4" Double Sockets Pack of 4 Order No. 9261514 Price: Pack of 20 Order No. 9269554 Price:
	6" x 8" Quick Set Shield Kit™  Order No. 9260525 Price: 7-1/2" x 10" Quick Set Shield Kit™  Order No. 9260526 Price: 8-1/2" x 12" Quick Set Shield Kit™  Order No. 9260527 Price:  All Quick-set Shield Kits include a 14" adjustable 3/4" Loc-Line®  arm, magnetic base and fitting for fixed mounting.
	6" x 8" Replacement Shield Order No. 9260528 Price: 7-1/2" x 10" Replacement Shield Order No. 9260529 Price: 8-1/2" x 12" Replacement Shield Order No. 9260530 Price:
Ď	Shield Mounting Elbows Pack of 2 Order No. 9260531 Price:
	3/4" Magnetic Base Order No. 9260532 Price:
	3/4" Fixed Mounts Pack of 2 Order No. 9260533 Price:
K	3/4" Hose Assembly Pliers Order No. 9278004 Price:

# MODULAR & ADJUSTABLE VACUUM HOSE

Designed to be added to an existing central vacuum system to extract smoke, dust, fumes and particles at the source.

Applications: Soldering, wet grinding, machining applications, (especially mist, graphite, and particles), chemical odors and fumes (except acids)





#### Melting point 329°F • Maximum operating temperature 170°F

- Hand adjustable 360°
- Self supporting up to 3'.
- Durable, will not fray.
- Resistant to most chemicals.
- Bending radius of 5.75".

Order No.	Description	Price
9281201 9281202 9289220	9 elements 2.5" ID (1 foot segment) 18 elements 2.5" ID (2 - one foot segments) 180 elements 2.5" ID (20 - one foot segments)	
9281203 9289223	4.5" Round Nozzle - 1 pc. 4.5" Round Nozzle - 10 pcs.	
9281204 9289224	6" x 3.5" Rectangular Nozzle - 1 pc. 6" x 3.5" Rectangular Nozzle - 10 pcs.	
9281205 9289225	Tapered Oval Nozzle - 1 pc. Tapered Oval Nozzle - 10 pcs.	
9281206 9289226	3" Loc-Line PVC Adapter - 1 pc. 3" Loc-Line PVC Adapter - 10 pcs.	
9281207 9289227	3" Loc-Line Sheet Metal Duct Adapter - 1 pc. 3" Loc-Line Sheet Metal Duct Adapter - 10 pcs.	

Caution: Loc-Line®Vacuum Hose is made from an acetal copolymer. This material is not fire retardant and thus would pose a fire hazard if the material is subjected to an application where high temperatures or flames exist.



#### Other LOC-LINE products available:

- Modular Manifolds
- Acid Resistant Hoses Please inquire.

Price



#### **VAC AND COLD AIR** COOLANT SYSTEMS

**SERIES 225:** 





#### **Cold Gun Air Coolant System**



Replace messy mist systems and improve dry machining with cold air. The Cold Gun Aircoolant System produces a stream of clean cold air at 50°F (28°C) below supply air temperature. It will remove heat to prolong tool life and increase productivity on machining operations when liquid coolants cannot be used.

EXAIR's Cold Gun is non-adjustable to prevent freeze-up during use. Cold airflow and temperature drop are factory set to optimize the gun's cooling capability for continuous use.

The Adjustable Spot Cooler offers precise temperature settings from -30°F to room temperature with the simple turn of a knob (freezing possible). A swivel magnetic base provides easy mounting and portability.

Model 5215 Single Point Cold Gun System is recommended for grinding and drilling operations. Model 5315 Dual Point Cold Gun System is ideal for larger surface areas such as milling or sawing. Model 3825 Adjustable Spot Cooler System can be used in the applications listed when continuous use at temperatures below 20°F are not required.

Order No.

Order No.	Description	Price
5215	Single Point Cold Gun System (Includes magnetic base, hose kit and filter.)	
5315	Dual Point Cold Gun System (Includes magnetic base, hose kit and filter.)	
3825	Adjustable Spot Cooler System includes swivel magnetic base, filter, (2) additional generators and single point hose kit with cone and fan nozzle.	
9003 9012	Manual Drain Filter Separator, 1/4 NPT Manual Shutoff Valve, 1/4 NPT	

#### **Applications:**

- Tool sharpening
- Drill & cutter grinding
- Routing
- Plunge and form grinding
- Millina
- Surface grinding
- Drilling
- Tire grinding
- Band sawing
- Plastic machining



- Improves production rates
- Prevents burning
- Extends tool life reduces breakage
- Improves tolerance control
- Prevents smearing of metal or plastics
- Maintenance free no moving parts
- Quiet (less than 75 dBA)

Description

#### **Chip Vac System**



EXAIR's compressed air operated Chip Vac is an industrial duty vacuum designed specifically for vacuuming chips. It creates a powerful cyclonic action that vacuums metal, wood or plastic chips into an ordinary 55 gallon drum. Dusty materials such as absorbents are trapped by the 0.1 micron filter bag to keep the surrounding air clean.



6193	Chip Vac System includes the Chip Vac, lever lock drum lid, shutoff valve, filter bag, 10' chemical resistant hose (1.5" I.D.), chip wand, extensions, crevice tool, brush, skimmer and floor tool (drum not included).	
9001	Auto Drain Filter Separator, 1/4 NPT, 73 SCFM	

Pick up wet or dry chips from fixtures, floors and work surfaces of machining centers, lathes, saws, mills or other industrial equipment and deliver them directly to an ordinary 55 gallon drum.

- Powerful cyclonic action
- No moving parts maintenance free
- Quieter than electric vacuums
- · No motors to clog or wear out
- Dust free-chips go directly into drum
- Includes all accessories

## **Reversible Drum Vac System**

The Reversible Drum Vac is a safe, maintenance free way to recover:

- Coolant
- Sludge and chips Tramp oil
- Hydraulic oils Liquid spills
- Waste water



EXAIR's compressed air operated Reversible Drum Vac System attaches quickly to any closed head 55 gallon drum. Its high powered vacuum fills the drum in less than two minutes. With the simple turn of a knob, the same stainless steel pump quickly empties the drum. Coolant sumps can be easily refilled, floor spills vacuumed, or contaminated liquids transferred to filtration tanks in minutes.

Electrically operated "all purpose" vacuums aren't designed for use in industrial environments. As a result, motors wear out quickly and impellers clog. The Reversible Drum Vac does not use electricity and has no moving parts, assuring maintenance free operation. An automatic safety shutoff valve prevents spills or overfilling.



Model 6901 Spill Recovery Kit.

Order No.	Description	Price		
6191	Reversible Drum Vac System includes two-way pump assembly (1/4 NPT), shutoff valve, 10' flexible vacuum			
	hose (1.5" I.D.) with 90° quick release elbow connection, (2) extension wands, crevice tool, skimmer tool			
	and floor tool (drum not included).			
6901	Spill Recovery Kit includes a one-piece 54" ABS wand and 14" double blade squeegee tool.			
9001	Auto Drain Filter Separator, 1/4 NPT, 73 SCFM			

# MACHINE SHOP DISCOUNT SUPPLY

#### **PNEUVAC GUNS**

**SERIES 450:** 



#### **STANDARD**

- Unique design enables unit to act as both a blow gun and a vacuum.
- High-output venturi design multiplies air flow by 12 times. For example, an input air supply of 10 cfm results in an output of 120 cfm.
- Changing between blow and vacuum modes is accomplished by simply reversing the direction of the venturi.
- New trigger design reduces strain.
- · High vacuum production with minimal air consumption.
- Made of rugged, anti-static nylon.

#### **DEEPHOLE**



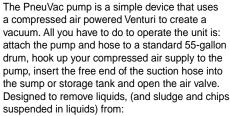
For removing chips from blind holes up to 18" deep.

The deep hole gun is a modified version of the PneuVac gun, designed for removing chips from blind holes. The thin black tube blasts high pressure air to dislodge chips while the main nozzle draws them safely away. A clear plastic shroud protects the operator from flying debris.

Order No.	Description	Price
49005	PneuVac Gun Only	
49085	Dust Bag Kit: PneuVac Gun, dust bag, extension	
	tube and clamp	
49080	Hose Kit: PneuVac Gun, 10ft. smooth-bore hose,	
	extension tube and clamp	
49095	Accessory Kit: Two extension tubes, crevice tool,	
	vacuum head, vacuum head brush and round brush	
49010	Deep Hole Gun Only	
49020	Dust Bag and Clamp Only	
49090	10ft Smooth Bore Hose Only	

#### **PNEUVAC PUMP**

The perfect way to clean coolant sumps.





- Machining Centers
   Tanks
- EDM Machines
   Spills
- Coolant Sumps
- Open Pits



#### Caution:

- Do not use the PneuVac pump with flammable or volatile liquids such as gasoline, alcohol, kerosene, aviation fuel, mineral spirits or any similar liquid with a low flash point.
- Do not modify this product to pressurize drum to pump liquids out. Pressurizing drum could cause an explosion that might result in a serious injury.

**PneuVac Pump Kit:** Consists of pump, 1/4" ball valve, automatic shut-off valve, 10ft. of smooth-bore hose, quick-disconnect drum fittings, and one 18" aluminum wand.

Description	Order No.	Price
Stainless Steel Pump Kit	48010	
Aluminum Pump Kit	48017	
Replacement Hose 10 ft.	48019	





#### **PISTOL VAC**

**SERIES 677:** 



Wherever powerful industrial vacuum cleaning is required. Pistol Vac connects directly to your air line and can be used for a wide range of industrial cleaning jobs in vacuum mode as well as blow mode.

Pistol Vac uses 14 CFM of shop-air at 85 PSI and has an air flow through gun of 115 CFM. To turn your vacuum gun into a very powerful air blowing tool, remove back of gun and reverse venturi so that small air flow arrow points forward.

Made from heavy duty engineered polymer

OSHA compliant in Blow Gun mode.

Made in U.S.A.

#### Pistol Vac with Bag Kit

Kit includes:

Pistol Vac Tool #64016, Crevice tool, canvas dust bag, 1-1/4" x 3" hose and two #20 hose clamps.



#### **ACCESSORIES**

ACCESSORIES		
Item	Order No.	Price
Crevice Tool	64001	
Vacuum Bag	9964002	
Smooth Bore Hose/ft	64003	
Brush	64005	
20" Extension Tube	9964006	
2" Dia. Fitting for Steel Drum	64007	

#### HAND BLOWER

**SERIES 442:** 



- Made of high quality rubber for long life.
- Special brass nozzle provides a strong, clean, air stream.
- For small air cleaning jobs, suck molten solder, drive out chips, sawdust from T slots, gears, etc.

Order No.	Approx. Lgth	Body Dia.	Price
4420027	4-1/2"/115mm	2-1/8"/54mm	



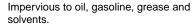


#### **AIR HOSE SERIES 959:**



#### **Neoprene Hose Assemblies**

Able to withstand working pressures up to 300 psi and temperatures up to 180°F yet maintain flexibility.





Model No.	Hose Length	Hose ID	MPT Fitting	Order No.	Price Each
R14012	12'	1/4"	1/4"	24232	
R14025	25'	1/4"	1/4"	24239	
R14050	50'	1/4"	1/4"	24246	
R380124	12'	3/8"	1/4"	24330	
R380254	25'	3/8"	1/4"	9924344	
R380504	50'	3/8"	1/4"	24358	
R38012	12'	3/8"	3/8"	24323	
R38025	25'	3/8"	3/8"	24337	
R38050	50'	3/8"	3/8"	24351	

#### Flexeel Inner - Braided Polyurethane Hose

200 psi working pressure.

Extremely flexible even in subzero temperatures.



Model No.	Hose Length	Hose ID	MPT Fitting	Order No.	Price Each
PFE40254T	25'	1/4"	1/4"	9950312	
PFE40256T	25'	1/4"	3/8"	0050313	
PFE40504T	50'	1/4"	1/4"	9950314	
PFE40506T	50'	1/4"	3/8"	9950315	
PFE41004T	100'	1/4"	1/4"	9950316	
PFE41006T	100'	1/4"	3/8"	9950317	
PFE60254T	25'	3/8"	1/4"	0950321	
PFE60256T	25'	3/8"	3/8"	9950322	
PFE60504T	50'	3/8"	1/4"	9950323	
PFE60506T	50'	3/8"	3/8"	9950324	
PFE61004T	100'	3/8"	1/4"	9950325	
PFE61006T	100'	3/8"	3/8"	9950326	

Withstands temperatures between -60°F and +200°F. Highly



#### Order **Price** ID **Fitting** No. No. Length Each 27475 N14-12B 12' 1/4" 1/4" (2 SW) 27503 N14-17B 17' 1/4" 1/4" (2 SW) 27531 25' 1/4" (2 SW) N14-25B 1/4" 1/4" (2 SW) N14-50B 50' 1/4" 27559 N38-12B 12' 3/8" 3/8" (2 SW) 27678 N38-17B 3/8" 3/8" (2 SW) 27727 17' N38-25B 25' 3/8" (2 SW) 27776 3/8" 27825 N38-50B 50' 3/8" 3/8" (2 SW)

#### **Neoprene Pigtail Assemblies**

Extends the life of the coupler by acting as a shock absorber and protecting it against tool vibration.

Model No.	Hose Length	Hose ID	MPT Fitting	Order No.	Price Each
RP0406	6"	1/4"	1/4"	25504	
RP0412	12"	1/4"	1/4"	25511	
RP0418	18"	1/4"	1/4"	25525	
RP0424	24"	1/4"	1/4"	25539	
RP0612	12"	3/8"	3/8"	25595	
RP0618	18"	3/8"	3/8"	25609	
RP0624	24"	3/8"	3/8"	25623	

#### Flexeel Lead-in Hose Assemblies with Ball Swivel Fittings

Prolongs hose life by eliminating end stress and increases production by facilitating tool manipulation.



Use between the air hose and the coupler.

Model No.	Hose Length	Hose ID	Male Ball Swivel x Female Rigid	Order No.	Price Each
FP0412BS	12"	1/4"	1/4" NPT	29600	
FP0418BS	18"	1/4"	1/4" NPT	29601	
FP0424BS	24"	1/4"	1/4" NPT	29602	
FP0430BS	30"	1/4"	1/4" NPT	29603	
FP0436BS	36"	1/4"	1/4" NPT	29604	
FP0460BS	60"	1/4"	1/4" NPT	29605	
FP06124BS	12"	3/8"	1/4" NPT	29612	
FP06184BS	18"	3/8"	1/4" NPT	29613	
FP06244BS	24"	3/8"	1/4" NPT	29614	
FP06304BS	30"	3/8"	1/4" NPT	29615	
FP06364BS	36"	3/8"	1/4" NPT	29616	
FP06604BS	60"	3/8"	1/4" NPT	29617	

#### Flexcoil Polyurethane Self Storing Hose Kink and abrasion resistant. Lightweight

and extremely durable.

and extremely durable.						
Model No.	Hose Length	Hose ID	MPT Fitting	Order No.	Price Each	
PU14-10B-B PU14-20B-B PU14-25B-B PU14-50B-B	10' 20' 25' 50'	1/4" 1/4" 1/4" 1/4"	1/4" 1/4" 1/4" 1/4"	48022 48102 48142 48402		
PU38-10B-B PU38-20B-B PU38-25B-B PU38-50B-B	10' 20' 25' 50'	3/8" 3/8" 3/8" 3/8"	3/8" 3/8" 3/8" 3/8"	48942 49062 49122 49442		



# ACTINE SHOP DISCOUNT SUPPLY



## **BLOW GUNS**

**SERIES 959:** 







Ergonomically designed to fit the contour of the users' hand.

Model No.	Description	0.00	Price Each
600S-DL	Safety Tip	9913123	

#### **Tamperproof Safety Lever Operated Blow Gun**



Features a tip that is permanently attached to the body assuring OSHA Compliance and

Model No.	Description		Price Each
600ST-DL	Tamperproof Tip	9913205	

#### **Extension Tip Safety Lever Operated Blow Gun**



reach into tight places.

Model	Description	Order	Price
No.		No.	Each
603-S	3" Extension Tip	13179	
606-S	6" Extension Tip	13186	
612-S	12" Extension Tip	913207	
616-S	16" Extension Tip	13214	
624-S	24" Extension Tip	13228	
636-S	36" Extension Tip	13242	

#### **Brass Tip Button Blow Gun**



Ventless tip provides most economical means of achieving a concentrated air stream for many blow-off applications.

Model	Description	Order	Price
No.		No.	Each
605	Brass Tip	9913172	

#### **High Volume Safety Tip Pistol Grip Blow Gun**



Designed to increase flow while reducing air consumption.

Model	Description	Order	Price
No.		No.	Each
600V-S	High Volume Safety Tip	15257	

#### **Needle Blow Gun Tips**



These Needle Tips allow the user to get into and blow out tight cavities, crevices and dies that are too narrow for other tips to reach. The needle portion is made from stainless steel and the nickel plated brass base with 1/8" MPT will fit most blow guns.

Model	Description	Order	Price
No.		No.	Each
SNT-1 SNT-2 SNT-3 SNT-4 SNT-5 SNT-KIT-DPB	.042" x 15/16" .050" x 1-3/16" .072" x 1-3/4" .095" x 2-15/32" .134" x 2-3/4" Blow Gun Needle Tip Assortment	22361 22362 22363 22364 22365 9922246	

#### **Extended Nozzle Safety Pistol Grip Blow Gun**



Slender 4" nozzle allows access to hard to reach places and holes as small as .200".

Model	Description	Order	Price
No.		No.	Each
770S	Safety Tip	92271	

#### Pistol Grip Safety Tip Blow Gun



Assures user comfort even during long term use.

Model	Description	Order	Price
No.		No.	Each
700S	Safety Tip	13473	

#### **Rubber Tip Blow Gun**



Ideal for blowing out molds or any other delicate surface brass tips might damage.

Model	Description	Order	Price
No.		No.	Each
601	Rubber Tip	13158	

#### **BLOW GUN KIT**

**SERIES 959:** 

#### Blow Gun Kit includes a tip for virtually every application

- 771 Pistol-Grip Blow Gun-light weight yet rugged with variable flow control
- Non-Safety tip for applications that require a concentrated air stream (SAT15)
- Standard Safety tip for OSHA compliance (ST10)
- Safety Booster tip for OSHA compliance and higher volume (ST11)
- High Volume Safety Tip for OSHA compliance, low air consumption and highest volume (SV-10)
- Inflator tip fits over valves to inflate tires
- Rubber tip for blowing out molds or use with other delicate surfaces (SAT13)



- · Assortment of five needle tips for precise air delivery (SNT-Kit)
- 10" Safety Extension Tip OSHA compliant extension tip (ST210)
- · A connector so the blow gun is ready to use right out of the box



- Strong transparent cover allows customers to see kit contents
- Durable and compact for easy storage in a work area or toolbox
- Gun features a brass-reinforced 1/4" FPT inlet
- · Contents lock into place within the kit to ensure that they remain stationary and undamaged when not in use

#### Model No. BG-KITCST

Order No. 9590010 Price:
--------------------------



#### **COUPLERS AND CONNECTORS**

**SERIES 959:** 



#### **Industrial Interchange Couplers (15 Series)**

1/4" Body Size





Thread/ Barb	Female Model No.		Male Model No.	Order No.	
1/4" 3/8"		11552 11566		11573 11601	

#### **Industrial Interchange Couplers (58 Series)**

3/8" Body Size





Thread/	Female		Price	Male	Order	Price
Barb	Model No.		Each	Model No.	No.	Each
1/4" 3/8"	582 580	9912252 912238			9912259 9912245	

#### **ARO Interchange Couplers (14 Series)**

1/4" Body Size





	Female Model No.		Price Each	Male Model No.	Order No.	Price Each
1/4" 3/8"		9911461 9911482		142 145	11489 11499	

#### **Tru-Flate Interchange Couplers (16 Series)**

1/4" Body Size





	Female Model No.			Order No.	Price Each
1/4" 3/8"		11726 11740		11747 11768	

#### **Lincoln Interchange Couplers (17 Series)**

1/4" Body Size





	Female Model No.				
1/4"	170	11886	172	11893	

#### Megaflow Interchange Couplers (11 Series)

1/4" Body Size





	Female Model No.		Male Model No.	Order No.	Price Each
1/4" 3/8"	110 111	911103 11110	112 -	11117	

#### **Automatic Universal Connectors**

Body Size Barb Model No. Order Price Each

1/4" 1/4" 150U 11560





#### **Industrial Interchange Connectors (15 Series)**

1/4" Body Size





Thread/ Barb	Female Model No.		Male Model No.	Order No.	Price Each
1/4" 3/8"	1502 1505	9911650 11671	1501 1503	11636 11657	

#### **Industrial Interchange Connectors (58 Series)**

3/8" Body Size





Thread/ Barb	Female Model No.	Order No.	Male Model No.	0.10.01	Price Each
1/4" 3/8"	5804 5802	9912322 9912308	5803 5801	12315 9912301	

#### **ARO Interchange Connectors (14 Series)**

1/4" Body Size





	Female Model No.		Male Model No.	Order No.	Price Each
1/4" 3/8"		11510 11531		11503 11517	

#### **Tru-Flate Interchange Connectors (16 Series)**

1/4" Body Size





	Female Model No.		Male Model No.	Order No.	Price Each
1/4" 3/8"	1602 1605	11803 11824		11796 11810	

#### **Lincoln Interchange Connectors (17 Series)**

1/4" Body Size





	Female Model No.				Price Each
1/4"	1702	11907	1701	9911900	

#### **Megaflow Interchange Connectors (11 Series)**

1/4" Body Size





	Female Model No.	Order No.	 Male Model No.	Order No.	Price Each
1/4" 3/8"	1102 1105	11145 911159		9911138 9991152	

#### **Automatic Universal Connectors**

		Male Model No.		
1/4"	1/4"	152U	11578	

1/4" Body Size





## FILTERS, REGULATORS, & LUBRICATORS SERIES 959:





#### FOR APPLICATIONS WHERE SPACE IS LIMITED SUCH AS COMPACT **CONTROLS AND MINIATURE CIRCUITS**

#### **Miniature Series Filters**



Manual drain allows quick and easy removal of fluids. Bowl volume 1.5 oz.

Model	Pipe	Order	Price
No.	Size	No.	Each
MF1	1/8"	18499	
MF2	1/4"	18492	



Miniature Series Lubricators Tamperproof cap can be used to adjust oil delivery rate and lock desired lubrication level in place.

> Provides constant oil delivery at both steady and pulsing air flows.

Model	Pipe	Order	Price
No.	Size	No.	Each
ML1	1/8"	18513	
ML2	1/4"	18506	

**Miniature Series Regulators** 



Built in self-relieving feature prevents excessive downstream pressure build up.

Model	Pipe	Order	Price
No.	Size	No.	Each
MR1	1/8"	18527	
MR2	1/4"	18520	

#### Miniature Series Filters, Regulator, and Lubricator Assemblies



Features tough die cast zinc body construction with either 1/8" or 1/4" in/out port.

Includes a 0 - 160 psi pressure gauge.

Model	Pipe	Order	Price
No.	Size	No.	Each
MFRL1-G	1/8"	77295	
MFRL2-G	1/4"	77367	



While we show only the most popular COILHOSE items we can supply their entire range of products; please inquire.

#### TOP LEVEL PERFORMANCE AND LONG LASTING DURABILITY

#### **Heavy Duty Series Filters**



Manual drain, polycarbonate bowl, and 40 micron sintered bronze element supplied as standard.

Model	Pipe	Order	Price
No.	Size	No.	Each
8822 8823 8824	-, -	15491 9915659 9915876	

#### **Heavy Duty Series Lubricators**



Polycarbonate bowl supplied as standard.

Can be filled without shutting down air lines feeding production equipment.

Model	Pipe	Order	Price
No.	Size	No.	Each
8842	1/4"	16525	
8843	3/8"	16546	
8844	1/2"	16581	

#### **Heavy Duty Series Regulators**



Assures highest flow rates with accurate control and fast response.

Pressure gauge 0-125 psi supplied as standard.

Model	Pipe	Order	Price
No.	Size	No.	Each
8802G	1/4"	15172	
8803G	3/8"	15235	
8804G	1/2"	15298	

#### Heavy Duty Filter, Regulator, and Lubricator Assemblies



Top level performance and long lasting durability are assured with features such as extra large filter elements, critically close air regulation, positive mist type atomization & die cast aluminum bodies.

Model	Pipe	Order	Price
No.	Size	No.	Each
8882AAG	1/4"	16922	
8883AAG	3/8"	16964	
8884AAG	1/2"	17006	

**AEROSOLS CANNOT BE SHIPPED BY AIR** 





**SERIES 447:** 

AGHINE SHOP DISCOUNT SUPPLY

#### LIQUID THREADLOCKERS

#### 262 Threadlocker

Medium to High Strength

A permanent locking threadlocker for fasteners up to 3/4" (20mm) diameter. High lubrication for easy assembly. Excellent for preventing rust and corrosion in extreme chemical/environmental conditions.

Container Size	Order No.	Price
10 ml. Tube 50 ml. Bottle 250 ml. Bottle	26221 26231 26241	



#### 242® Threadlocker

Medium Strength

A general-purpose, removable threadlocker for fasteners between 1/4" and 3/4" (6 to 20 mm) diameters. Controlled lubricity for accurate clamp loads. Parts can be separated using hand tools.

Container Size	Order No.	Price
10 ml. Bottle 50 ml. Bottle 250 ml. Bottle	24221 24231 24241	



#### 222 MS Threadlocker

Low Strength/Small Screw Ideal for fastener diameters of 1/4" (6mm) and smaller. Controlled lubricity for accurate clamp loads. Parts can be separated using hand tools.

Container Size	Order No.	Price
10 ml. Bottle 50 ml. Bottle 250 ml. Bottle	22221 22231 22241	



#### SURFACE PREPARATION

#### 7649 Primer N

A solvent-based primer that features very long on-part life. Decreases the set-up time of Loctite® Threadlockers and increases breakaway torque on most fastener surfaces. Ideal for cure conditions below room temperature.

Container Size	Order No.	Price
25 gm. Aerosol Can 1.75 fl oz. Bottle 4.5 oz. Aerosol Can	21347 19269 21348	



#### THREAD SEALANT

#### 565 PST® THREAD SEALANT

Controlled Strength

A general-purpose instant sealant for tapered and straight/tapered fittings. Controlled strength for ease of disassembly.

50 ml. Tube	
Order No. 56531	
Price:	



#### **BONDING ADHESIVES**

454 PRISM® Surface Insensitive Instant

Adhesive Gel

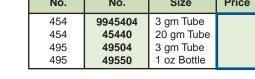
A General-purpose, no-run clear gel. Can be applied to vertical surfaces. Excellent for almost all surfaces. Ideal for porous substrates and rough and acidic surfaces.

#### 495 SUPER BONDER®

**Instant Adhesive** 

A general-purpose adhesive designed to bond rubber, metal and plastic parts with gaps to .004".

Product No.	Order No.	Container Size	Price
454	9945404	3 gm Tube	
454	45440	20 gm Tube	
495	49504	3 gm Tube	
495	49550	1 oz Bottle	



#### COATING

#### Color Guard®

Tough Rubber Coating

Inhibits rust and corrosion; seals, insulates and identifies almost any material in minutes. Creates a non-slip gripping surface. Rubber coating won't crack or chip. Acid and alkali resistant. Lasts for years. Use to 200°F. Dip, spray or brush to apply. Suggested applications include: Tools, metal, electrical connections, masonry, wood, conveyors, glass, rope, fabric.



Size	Black	Blue	Red	Yellow	Price
14.5 oz. Can	34979	34982	34985	34988	



While we show only the popular **LOCTITE** items we can supply their entire range of products; please inquire.

# MACHINE SHOP DISCOUNT SUPPLY









#### **LUBRICANTS**



#### C5-A Copper Based Anti-Seize

Exclusive formula suspends copper and graphite in a high-quality grease. Protects metal parts from rust, corrosion, galling and seizing at temperatures to 1800°F (982°C). Tested to MIL-A-907.

Container Size	Order No.	Price
8 oz. Brush Top 1 lb. Brush Top	51147 9951007	



#### Silver Grade Anti-Seize

Heavy duty, temperature-resistant, petroleumbased lubricant compound fortified with graphite and metallic flake. Inert, will not evaporate or harden in extreme cold or heat. For use in assemblies up to 1600°F (871°C).

Container Size	Order No.	Price
8 oz. Brush Top 1 lb. Brush Top	76732 76764	



#### **Heavy Duty Anti-Seize**

Metal-Free. Excellent lubricity. Provides outstanding lubrication to all metals including stainless steel, aluminum, and soft metals up to 2400° F (1315°C).

Container Size	Order No.	Price
9 oz. Brush Top 1 lb. Brush Top	9951605 9951606	



#### Nickel Anti-Seize

Copper-free. Recommended for stainless steel and other metal fittings. For preventing corrosion, seizing and galling in harsh, chemical environments, and temperatures to 2400° F (1315°C).

Container Size	Order No.	Price
8 oz. Brush Top 1 lb. Brush Top	77124 77164	



#### **Graphite-50 Anti-Seize**

Electrically conductive, non-metallic. Temperature resistant up to 900°F (482°C). Highly electrically conductive in metal-to-metal joints.

1 lb. Can	
Order No.	9951084
Price:	



#### **RETAINING COMPOUNDS**

#### 609 Retaining Compound

General-purpose low viscosity retaining compound that bonds rigid metal assemblies. Ideal for gap distances up to 0.005" diameter. Fixtures in 10 minutes and provides a shear strength of 3,000 psi after 24 hours. Easily joins dissimilar metals. Withstands temperatures to 300°F.



Container Size	Order No.	Price
0.5 ml Capsule 10 ml. Bottle 50 ml. Bottle 250 ml. Bottle	60905 60921 60931 60941	

#### 680 Retaining Compound

High Strength/High Viscosity. A retaining compound for joining fitted cylindrical parts. Fixtures in 10 minutes and provides a shear strength of 4,000 psi on steel after 24 hours. Fills diametral gap distances up to 0.015".

·		MET TANK (C. C	
Container Size	Order No.	Price	
10 ml. Bottle	68015		
50 ml. Bottle	68035		
250 ml. Bottle	68060		

#### CLEANER

#### **Electrical Contact Cleaner**

Removes grease, oil and other contaminants from electrical parts to prevent contact failure. Dries residue-free in seconds. Non-conductive, non-corrosive, non-flammable. Contains no CFCs or Class I ODCs. Contains HCFC-141 b. May attack some sensitive plastics









# SPECIALTY CUTTING AND TAPPING FLUIDS SERIES 460:







#### ALL 55 GALLON DRUMS SHIPPED F.O.B. FACTORY

#### TAPFREE EXCEL CUTTING AND TAPPING FLUID

**Tapfree Excel** is a high performance cutting oil that is safe for use on all metals. Formulated with a unique blend of low odor extreme pressure additives, Tapfree Excel is pleasant to work with and produces exceptional results especially on hard to cut metals such as stainless steel, titanium and exotic alloys.

- High performance cutting oil formulated to produce tighter tolerances, longer tool life and a better surface finish on all metals.
- Especially effective on difficult to machine metals such as stainless steel, titanium and exotic alloys.
- Clings to the cutting tool for better hold on horizontal operations and less product usage.
- Low odor extreme pressure additives make Tapfree Excel pleasant to work with.



Size	Units per case	Order No.	Price
4 oz. Bottle (.118L)	24	4600005	
8 oz. Bottle (.236L)	12	4630308	
16 oz.Bottle (.473L)	12	4630316	
Gallon Jug (3.78L)	4	4630328	
5 Gallons (18.9L)	1 Pail	4630305	
30 Gallons (114L)	1 Drum	4630330	
55 Gallons (208L)	1 Drum	4630355	

#### **TAPFREE 2 CUTTING AND TAPPING FLUID**

**Tapfree 2's** Environmentally Safe HYDRO-LUBE formulation offers remarkable performance in a water based cutting fluid. Easy, precise cutting and quick cleanup make Tapfree 2 the preferred choice for production jobs, maintenance repairs and use on construction sites. Especially effective on low and medium carbon steel, cast iron, milder grades of stainless steel and alloy steels.

- Proprietary Hydro-Lube formulation delivers amazingly efficient cutting action, reduces heat buildup, and extends tool life.
- Produces a superior finish and tight tolerances on most production metals from aluminum to stainless steel; not for use with magnesium.
- Easy to clean up light residue is wiped away with a damp rag.
- Environmentally Safe formula better for workers and the environment.



Size	Units per case	Order No.	Price
4 oz. Bottle (.118L)	24	4600008	
8 oz. Bottle (.236L)	12	4620208	
16 oz.Bottle (.473L)	12	4620216	
Gallon Jug (3.78L)	4	4620228	
5 Gallons (18.9L)	1 Pail	4620205	
30 Gallons (114L)	1 Drum	4620230	
55 Gallons (208L)	1 Drum	4620255	

#### **NEW ALUMTAP CUTTING AND TAPPING FLUID**

**New Alumtap** is a special compound that enables speedy and precise machining of aluminum. It has exceptional penetrating and lubricating qualities that reduce galling and extend tool life while improving fit and finish. It is the best cutting fluid available for use on aluminum, magnesium, copper, and other soft metals.

- Specifically formulated for the machining characteristics of aluminum and other soft metals.
- Produces an ultrafine surface finish that is clean and bright without metal smear or staining.
- Increases tool life by inhibiting spot welding and reducing the tendency of aluminum to adhere to the cutting edge of the tool.
- The answer to "problem" aluminum jobs that require tight tolerance.



Size	Units per case	Order No.	Price
4 oz. Bottle (.118L)	24	4600006	
16 oz.Bottle (.473L)	12	4660616	
Gallon Jug (3.78L)	4	4660628	
5 Gallons (18.9L)	1 Pail	4660605	
30 Gallons (114L)	1 Drum	4660630	
55 Gallons (208L)	1 Drum	4660655	

#### **CLEANTAP CUTTING AND TAPPING FLUID**

**Cleantap** is a synthetic, aqueous based cutting fluid developed for use on operations where the presence of certain chemicals cannot be tolerated. It improves cutting performance without the use of chlorine, sulphur, silicone or oil. Recommended for plastics and all jobs where corrosion is of prime concern.

- Contains a non-corrosive extreme pressure additive that helps keep tools sharp and improves surface finish.
- Does not contain oil, chlorine, sulfur or silicone.
- Will not corrode or stain any ferrous or nonferrous metal and will not craze plastics.
- Easy to clean up light residue is wiped away with a damp rag.



Size	Units per case	Order No.	Price
4 oz. bottle (.118L)	24	4600007	
16 oz.Bottle (.473L)	12	4650516	
Gallon Jug (3.78L)	4	4650528	
5 Gallons (18.9L)	1 Pail	4650505	
30 Gallons (114L)	1 Drum	4650530	
55 Gallons (208L)	1 Drum	4650555	

# ACHINE SHOP DISCOUNT SUPPLY

#### **TAPPING & CUTTING FLUIDS, ETC.**

**SERIES 689:** 





TAPMATIC

#### **TAPMATIC TRICUT®**

Clear plastic bottles allow end users to quickly check volume levels.

- Available in liquid or paste
- Suitable for most metals; excellent for stainless steel
- Extends tool life
- Reduces production costs
- Improves surface finish
- Allows increased removal rates
- Reduces friction
- Flows directly to cutting edge
- Suitable for high and low speed applications
- · Provides smooth, accurate cutting action
- Is non-corrosive to steel

Size	Order No.	Price
16 fl. oz. liquid (0.473 liter) 1 gal. liquid (3.78 liters)	6005316 6005328	



Meets USDA requirements for P1.

- · Great for hard to machine metals
- Excellent for low speed, high pressure applications
- Minimizes torque increases
- Does not contain 1,1,1 trichloroethane, chlorinated paraffins, water, solvents or inactive fillers
- Aerosol provides a pinpoint stream with foaming action
- Safe on all metals

Meets or exceeds these specs: Boeing BAC 5008 Boeing D6-48809

Size	Order No.	Price
16 fl. oz. (0.473 liters) 11 oz. (312 g.) aerosol 1 gal. (3.78 liters) 5 gal. (18.93 liters) 55 gal. (208 liters)	6040320 6040312 6040330 6040340 6040360	

#### **TAPMATIC AQUACUT**

Meets USDA requirements for P1.

- Water-based formula
- Excellent for high speed, low pressure applications
- Nonflammable
- Nonhazardous
- Does not contain 1,1,1 trichloroethane, sulfur, chlorine or oils
- Safe on all metals, except magnesium
- Corrosion inhibitors prevent flash rusting
- Provides fine finishes. Cinnamon scent

Size	Order No.	Price
16 fl. oz. (0.473 liters) 1 gal. (3.78 liters) 5 gal. (18.93 liters)	6001216 6001228 6001205	



#### **TAPMATIC NATURAL**

Meets USDA requirements for P1.

- Nontoxic, nonhazardous and biodegradable
- Does not irritate the skin, eyes or respiratory tract
- Does not contain 1,1,1 trichloroethane, sulfur, chlorine, chlorinated solvents, water, mineral oil or inactive fillers
- High performance lubricating ability eliminates galling and seizing
- Safe on all metals

Size	Order No.	Price
16 fl. oz. (0.473 liters) 1 gal. (3.78 liters) 5 gal. (18.93 liters) 55 gal. (208 liters)	6044220 6044230 6044240 6044260	



#### TAPMATIC EDGE LIQUID

Meets USDA requirements for P1.

Edge liquid replaces flood coolants and eliminates disposal costs.

- Compatible with drop applicators
- High film strength
- Reduces friction
- Compatible with oil and water systems
- Replaces flood coolants and eliminates disposal costs
- Low toxicity
- Increases tool life
- Safe on all metals
- Excellent for high alloy metals

Size	Order No.	Price
16 fl. oz. (0.473 liters) 1 gal. (3.78 liters)	8943020 8943030	

## TAPMATIC EDGE LUBE AND CREME

Meets USDA requirements for P1.

#### Edge Lube:

- Excellent for belt, wheel and disc grinding or sawing applications.
- White, solid waxy bar

#### **Edge Creme:**

- Excellent for vertical applications
- For use when drilling, tapping blind holes, forming, bending, pre-coating fasteners and lubricating rubber seals.
- Squeeze tube allows easy usage Both:
- Biodegradable
- Eliminates heat buildup and belt loading
- Does not contain any hazardous chemicals
- Compatible with oil and water systems
- Extends grinding wheel life
- Low toxicity

•	Safe on all me	tals		
	Description	Size	Order No.	Price
	Edge Lube Edge Creme	13 oz. (364 grams) 11 oz. (.325 liters)	8943200 8943100	





#### CUTTING AND GRINDING FLUIDS AND OILS

**SERIES 691:** 

ALL 55 GALLON DRUMS SHIPPED F.O.B. FACTORY

## **ULTRACUT 250R & 255R**

**CHARACTERISTICS** 

#### Safe, Biostable, Water Soluble Oils

- 250R Contains Non-Chlorinated EP additives only
- 255R Contains Chlorinated and Non-Chlorinated EP additives
- Provides long sump life
- Low foaming

#### **APPLICATIONS**

250R - General purpose, medium duty applications 255R - High Performance/severe applications including hard to machine alloys

· Can be used on all metals



	250R		255	R
Description	Order No.	Price	Order No.	Price
1 Gal (4/case)	9174615			
5 Gal	9174605		9174705	
55 Gal	9174655		9174755	

#### WS-5050

#### **CHARACTERISTICS**

#### Heavy duty soluble oil

- Effective chlorinated E.P. additive provides excellent tool life
- Special additives protect neoprene seals

#### **APPLICATIONS**

#### General purpose, medium/severe duty applications

- Can be used on all ferrous metals
- Not recommended for Titanium
- Compatible with CNC machining

Description	Order No.	Price
1 Gal (4/case) 5 Gal 55 Gal	9174016 9174056 9174556	



#### **WS-500A**

#### **CHARACTERISTICS**

#### Chlorine free soluble oil

- Designed with a proprietary E.P. additive
- Does not contain chlorine or active sulfur, thereby reducing disposal cost

#### **APPLICATIONS**

#### **Excellent for general machining**

- Good for Titanium, Iconel X, Aluminum, Rene 41, Stainless Steel and other metals
- Compatible with CNC machining

Description	Order No.	Price
5 Gal 55 Gal	9174055 9174555	



#### **WS-11**

#### **CHARACTERISTICS**

#### Non-Chlorinated soluble oil

• An economical soluble oil

#### **APPLICATIONS**

#### General purpose, medium-duty applications

· Can be used as a light film rust preventative

Description	Order No.	Price
1 Gal	9174013	
5 Gal	9174053	
55 Gal	9174553	





#### **CHARACTERISTICS**

#### Semi-synthetic coolant

 Provides excellent lubricity and protects machines & parts from rust APPLICATIONS

#### General purpose, for machining and grinding

Can be used on many different metals including Aluminum

Description	Order No.	Price
5 Gal	9178405	
55 Gal	9178410	



RUSTLICK

While we show only the popular

**RUSTLICK** items we can

products; please inquire.

supply their entire range of

#### **VYTRON-N**

#### **CHARACTERISTICS**

#### Synthetic coolant

- High level of rust prevention
- Long sump life prevents rancidity

#### **APPLICATIONS**

## General purpose, machining and grinding on ferrous metals

• Setting the standard for over 20 years

Description	Order No.	Price
1 Gal ( 4/ case) 5 Gal 55 Gal	9175014 9175054 9175554	



#### G-25-J

#### **CHARACTERISTICS**

#### **Grinding Synthetic coolant**

- High level of rust prevention, non-foaming, transparent
- Enables the rapid settling of residues, which eliminates wheel buildup and ensures finer finishes

#### **APPLICATIONS**

## General purpose, designed for grinding applications

Excellent for Blanchard grinding

Description	Order No.	Price
1 Gal (4/case) 5 Gal 55 Gal	9175012 9175052 9175552	



#### **CARBIDE POWERGRIND**

#### **CHARACTERISTICS**

#### Synthetic carbide grinding fluid

- Cobalt leaching is minimal providing worker health and safety
- Its excellent lubricity and flushing keep grinding wheels clean
- High level of rust prevention

#### **APPLICATIONS**

#### **High Performance Carbide Grinding Coolant**

- Formulated to minimize the leaching of cobalt from carbide and to prevent chemical damage to carbide in grinding applications
- Can be used with all metals except magnesium

Description	Order No.	Price
5 Gal 55 Gal	9174052 9174552	









#### **EDM OILS: CLEANERS AND COOLANT MANAGEMENT**



**SERIES 691:** 

ALL 55 GALLON DRUMS SHIPPED F.O.B. FACTORY

#### **EDM-250**

#### **CHARACTERISTICS - Dielectric Oil**

- Low viscosity for excellent flushing and finishing
- Virtually odorless

#### **APPLICATIONS**

#### EDM machining, good for all filters

• Resists thermal degradation from high-amperage applications up to 400 amps

Description	Order No.	Price
55 Gal	9172550	



#### **EDM-30**

CHARACTERISTICS - Dielectric Oil

 Low viscosity allows for fast settling that yields higher quality finishes **APPLICATIONS** 

#### **EDM** machining

 Designed for paper cartridge filtration up to 150 amps

Description	Order No.	Price
5 Gal 55 Gal	9172052 9172552	



#### **KLEENZOL DY**

**CHARACTERISTICS - Water Soluble Alkaline Cleaner** 

- Non-flammable, non-toxic and biodegradable **APPLICATIONS**
- · Sump cleaner that quickly penetrates and dislodges grimy buidups of chips and oil residues

Description	Order No.	Price
1 Gal(4/case) 5 Gal 55 Gal	9176012 9176052 9176552	



#### **GROTAN**

#### **CHARACTERISTICS - Broad Spectrum Bactericide APPLICATIONS**

- · Provides added protection to extend coolant life.
- For use in individual sumps and large central systems.
- Helps protect machines, tools and workpieces from corrosion.
- Controls bacteria and fungus growth



Order No. 9177011 **Price** 



#### TRAMP OIL SKIMMER

Tramp oils seal the surface of the coolant in your sump against air, providing an ideal growth environment for the microorganisms, which cause a host of problems. The tramp oil skimmer removes these oils at a rate of up to 1-1/2 gallons per hour automatically, reliably and economically.

Description	Order No.	Price
12" Skimmer 18" Skimmer	9178012 9178018	



#### **CNC SKIMMER - SC3000**

#### **Coalescent Skimmer**

This portable coolant skimmer removes up to 95% of floating tramp oils from machine tool sumps. Detachable floating oil skimmers have no positioning requirements, provide perfect fluid flow and are easily installed. With the SC3000, the entire coolant filtration process takes place quickly, without removing the machine from operation

- Portable design for easy relocation and all multiple machine use
- Prevention of rancidity and "Monday morning odor"
- One-time setup with equipment modification required
- Reduced coolant replacement and disposal costs



Description	Order No.	Price
SC3000 Coalescent Skimmer SC3000 Float (pair) SC3000 Filter cartridge	9178100 9178101 9178102	



## TAPPING FLUIDS

SERIES 691:

Aerosols cannot be shipped by air.

## SafeTap

#### **SAFE TAP PLUS**

SafeTap Plus is a unique blend of synthetic additive creating a water based tapping fluid. The purpose of SafeTap Plus is to improve tool life and give better threads in tapped holes while providing the worker with a safe and clean environment.

- · Higher viscosity and lubricity
- High in rust protection
- No oily residue
- No mineral oils or solvents
- · Water-based formula for easy clean-up
- · Safe for all metals except magnesium



Description	Order No.	Price
4 oz. (24/case) 16 oz. (12/case) 1 Gal. (4/case) 5 Gal.	9171911 9171912 9171913 9171914	

#### **SAFE TAP ULTIMA**

SafeTap Ultima is an ultra-clean, high performance, environmentally compatible tapping fluid.

- 100% biodegradable
- Non-staining and odorless
- Water-Clear
- Safe for all metals
- All natural ingredients

Description	Order No.	Price
16 oz. (12/case) 1 Gal. (4/case) 5 Gal.	9171952 9171953 9171954	



## **SPECIALTY AEROSOLS**

**SERIES 693:** 



#### AEROSOLS CANNOT BE SHIPPED BY AIR

Product	Description	Performance	Applications	Order No. Price	
	CORRO	SION PREVENTATIVES -REMO	VABLE PROTECTIVE COATINGS		
Tool & Die Saver 11 oz.	Greasy elastic film	Absorbs moisture, fortified with lanolin Neutralizes acid formed by corrosive atmosphere.	Good for chucks, set-up jigs, tools, and stored molds. Ideal for long-term and long-distance storage. Easy to remove.	6933090	Tool & Dr Saver
Rust Inhibitor 11 oz.	Greasy elastic film	Absorbs moisture, fortified with lanolin. Neutralizes acid formed by corrosive atmosphere.	Prevents rust on tools, steel stock, parts and temporary or extended protection of machinery. Good for indoor storage.	6936007	RUST Inhibitor
	•	LUBRICANTS AND	COOLANT		
Cutting Oil 10.5 oz.	Light oil	All purpose lubricant and coolant.	Turret lathes, gear cutters, grinders, automatic screw machines, and pipe threaders.	6937020	GRÜÜLLIT Gry Graphin Lubrican
TOOL ROOM SUPPLIES					
Blue Tool- maker's Ink 12 oz.		Enables accurate scribing without glare. Produces a quick drying film that will not chip. May be scribed within 5 minutes of application.	For production layouts, patternmaking, tool, die, and modelmaking. May be used for templates and machined parts.	6946001	Dord Man and Lighter Access
Toolmaker's Ink Remover 10.5 oz.	Solvent spray for layout fluids	Removes ink without residue	Fast acting and quick removal of toolmaker's ink and layout fluids from the surface of completed work. Can also be used as a paint stripper.	6946095	Toomake in Remon
	•	MISCELLANE	ous		-
Drive Belt Dressing 12 oz.	Clear liquid	Increases gripping and pulling power. Stops slippage of all types of belts while stopping squeaks and squeals. Helps preserve leather and rubber.	For use on compressors, pumps, conveyors, generators, fans, textile, automotive and farm equipment.	6938079	enicium Orive Bel Oressiny
Tan Box Saver 12 oz.		A cost effective spray that dries quickly, surfaces appear new, won't rub off.	For use on cartons or to salvage carton overruns. Covers up old print, or light stains. Boxes can then be restenciled or relabeled.	6932811	onbullion Save

#### **MILWAUKEE SURE SHOT**

SERIES 639:

- 1 Qt. capacity
- All metal construction
- Rechargeable with compressed air
- Working Pressure 80-150 PSI
- Adjustable spray nozzle
- Great for degreasers, cleaners, solvents, rust inhibitors, etc.
- Not recommended for paints



#### **ENVIRONMENTALLY SAFE • SAVE THE OZONE**

- Refillable, Rechargeable
- Completely Portable
- Use Inexpensive Bulk Liquids, Eliminate Aerosol Disposal Problems
- Non Ozone-Depleting

Anything an aerosol sprays SURE SHOT sprays safer ! Just fill with liquid, pressurize with standard air chuck and spray

Order No. 6000059 Price



## MACHINE SHOP DISCOUNT SUPPLY

## TOOL AND INSTRUMENT OIL SERIES 789:



#### M1 ALL PURPOSE LUBRICANT

**SERIES 792:** 









A special formula originally developed by Starrett to protect high quality precision tools . M1 when applied produces a micro-thin air-tight coating film that simultaneously dries as it protects, avoiding dirt, grime, etc. that other "wet" lubricants actually attract.

SPRAYS UPSIDE DOWN: The can will spray upside down in awkward places without losing propellant power.

LUBRICATES: M1 is free of silicone, making it an excellent lubricant that is also easily removed to prep surfaces for paint. Its ability to stand up to extreme temperatures makes it ideal year-round.

PENETRATES: Deep-down penetration works quickly to free frozen nuts, bolts and metal parts. Actually gets under caked-on dirt to the clean metal.

PREVENTS RUST: Protects metal against rust and corrosion damage for months by providing a molecular shield that locks to the metal.

CLEANS: Actually removes grease, tar and grime from metal parts and painted surfaces. Cleans and polishes for lasting protection.

STOP SQUEAKS: Has instant lubrication properties that spread into hard to - reach metal parts to stop squeaking and sticking.

DISPLACES MOISTURE: M1 is not soluble in water, so it gets under moisture to lift it away from the surface to be protected.

NON- CONDUCTIVE: Prevents short circuits in high moisture environments. Halts electrical leakage from wet ignition wires.

ENVIROMENTALLY FRIENDLY: Contains no harmufull fluorcarbons/detergents and is also FDA approved for using in or near food-related environments.

Description	Catalog No.	EDP No.	Price
12 oz aerosol can 1 gallon container 5 gallon pail 53 gallon drum 1 pint bulk spray dispenser, empty	M1-95173 M-1.01 M-1.05 M-1.53 M-1.15	95173 93221 93227 93233* 93251	

<sup>\*</sup>F.O.B. Factory

# Starrent 100 Market 11 OLL Car uso 67 - 4-6-9 - 4-6-9 - 2-7 - 100 - 2-7

- 4 fl.oz. (0.1 liter) Plastic Bottle
- Assures maximum protection and lubrication of working parts.
- Especially useful for lubricating and protecting fine instruments, micrometers and other tools, light machinery and countless other applications.
- High-refining makes oil colorless.

Catalog No.	EDP No.	Price
1620	53216	

## GORRILLA BRAND PREMIUM GLUE™

SERIES 526:





100% Solvent Free • Polyurethene Absolutely the finest, strongest and most pure adhesive in the world.

- Bonds Metal, Ceramics, Wood, Stone, Plastics and more.
- Time tested polyurethane with 25 years of proven usage.
- Uses no thickeners, solvents or fillers
- Can be used indoors and out. (Only true waterproof glue)
- Sandable and stainable.
- Greater usable temperature range (40 to 130 degrees)
- 3 to 4 times the coverage of other glues.
- · Virtually odorless.

	Order No. 6050004		
8 oz. Bottle	Order No. 6050008	Price	

## SIMPLE GREEN®

SERIES 249:

#### Cleaner / Degreaser

Biodegradable, non-flammable, non-abrasive, non-toxic concentrate that can be custom-diluted to economically tackle any cleaning job. Safer alternative to hazardous chemicals and solvents. Exempt from OSHA and EPA special handling and personnel protection requirements for hazardous chemicals. Meets Federal Clean Air Act.

Simple Green-All Purpose Cleaner/Degreaser has a pleasant sassafras scent. Contains no petroleum distillates. Authorized by USDA for use in federally inspected meat and poultry plants.

Crystal Simple Green-Industrial Strength Cleaner/Degreaser for critical cleaning applications that demand a clear and fragrance-free solution. Ideal for industrial /manufacturing, electronics and parts washers. Meet FDA requirements for cleaning in cosmetic, medical and pharmaceutical environments.





#### 55 gal. drums shipped F.O.B. factory.

1 gal. Bottle

55 gal. Drum

5 gal. Pail

Size	Qty.	No.	Price
Simple Green-All Purpos	se Cleane	r/Degreaser	
24oz. Spray Bottle 1 gal. Bottle	12 6	4113012 4113005	
5 gal. Pail 55 gal. Drum	1 1	4113006 4113008	
Crystal Simple Green-Inde	ustrial Stre	ength Cleane	r/Degreaser
24oz, Spray Bottle	12	4119024	

6

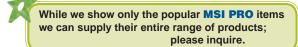
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4119128

4119005

4119055

## PNEUMATIC TOOLS SERIES 321:





#### **DIE GRINDERS**

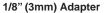
#### Features:

- Tool will accommodate both 1/8" (3mm) (with adapter or collet) and 1/4" (6mm) accessories.
- Variable speed throttle for positive speed control.
- Built in adjustable air regulator allows for a wide range of applications.
- Kit includes: Die grinder, 10 mounted points, 1/8" collet, and wrenches in plastic case.



9010025 1/4" Die Grinder

Order No.	Speed	Air Cons. (CFM)	Length	Weight	Price
9010025	22,000	4	6-3/4"	1-1/8 lbs.	
9918008	22,000	4	6-3/4"	1-1/8 lbs.	



Order No. 5080522	Price	
Oluci No. Judujez	11100	

1/8" (3mm) Collet

Order No. 5080500	Price	
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#### **DIE & ANGLE GRINDERS**

- · Safety handle for accident prevention.
- Angle head designed to fit tight areas.
- 10012 has a built in governor that shuts tool down in case of overspeed.

9910007 1/4" Angle Die Grinder

Order No.	Wheel Size	Spindle Size	Speed	Air Cons. (CFM)	Length	Weight	Price
9910007	-	1/4" Collet	22,000	4	6-1/2"	1 lbs.	
9010012	4"	3/8" x 24	11,000	10	9"	4 lbs.	



9918008 1/4" Die Grinder Kit

9910012 4" Angle Grinder

#### **ANGLE GRINDERS**

#### Features:

- · Heavy duty construction for tough grinding jobs.
- 5" tool accepts both 4-1/2" and 5" grinding wheels.
- Dead handle and rear throttle control for balanced tool operation



10019 5" Angle Grinder

Order No.	Speed	Wheel Size	Spindle Thread	Air Cons. (CFM)	Length	Weight	Price
10019 10013	10,000 7,000	4-1/2" to 5" 7"	5/8" x 11 5/8" x 11	11 12.5	10-1/4" 13-1/2"	4-1/2 lbs. 6-1/2 lbs.	



10013 7" Angle Grinder

#### **SANDERS**

#### Features:

- · Balanced construction for vibration free performance.
- · Front exhaust helps keep work surface clear.



16013 6" Dual Action Sander

Order No.	Speed	Pad/Belt Size	Air Cons. (CFM)	Length	Weight	Price
16013	10,000	6"	12	8-3/4"	4 lbs.	
9916026	16,000	3/4" x 20-1/2"	14.2	13-3/4"	3.1 lbs.	

#### Features:

- 360° swing arm for all around positioning comfort.
- · Rear exhaust directs air away from work surface.



# MACHINE SHOP DISCOUNT SUPPLY

#### PNEUMATIC TOOLS

**SERIES 321:** 





#### **CLUTCH SCREWDRIVERS**

#### Features:

- · Reversible action for assembly and disassembly.
- Quick change hex collet.
- Excellent power to weight ratio handles tough jobs with minimal fatigue.





Order No.	Speed	Torque (in/lbs)	Air Cons. (CFM)	Length	Weight	Price
14013 14011	1,800 1,800	115 45 - 115	4 4	7" 7"	2-1/2 2-1/2	

#### **REVERSIBLE DRILLS**

#### Features:

- Muffled handle exhaust for quiet operation.
- Variable speed trigger.
- Equipped with Jacobs<sup>®</sup> chuck.
- One hand forward and reverse lever.





Order No.	Speed	Chuck Size	Air Cons. (CFM)	Length	Weight	Price
14004	1,800	3/8"	4	6-1/2"	3	
14003	500	1/2"	4	7"	4	

#### **RATCHET WRENCH & BUTTERFLY IMPACT WRENCH**

#### Features:

- Teasing throttle for added control.
- Light weight aluminum handle for less operator fatigue.
- Butterfly throttle for single handed forward and reverse operation.
- 360° regulator on **15021**.



15003 3/8" Ratchet Wrench



Order N	Square Drive	Free Speed	Torque (Ft/lbs)	Bolt Capacity	Air Cons. (CFM)	Length	Weight	Price
15003	3/8"	150	45	3/8"	4	10"	2-1/2	
991502	3/8"	10,000	75	3/8"	3	5-1/2"	2-1/8	

#### **IMPACT WRENCHES**

#### Features:

- Ring socket retainer allows for rapid socket changes.
- Through bolt reverse lever allows for one hand forward and reverse control.
- Adjustable speed regulator sets and maintains air pressure for both forward and reverse operation.





Order No.	Square Drive	Free Speed	Torque (Ft/lbs	Bolt Capacity	Air Cons. (CFM	Length	Weight	Price
9915022 15016	1/2" 3/4"	7,000 4,600	230 700	5/8" 1"	4.75 10.25	7" 9-3/4"	5-1/4 10-1/2	



#### **ROTARY TOOL KITS & ENGRAVER**

SERIES 937:



#### 100-N/7 Single Speed Rotary Tool Kit

- · Ideal when one speed is all you need
- Ideal for shaping, hollowing, grooving, slotting, inlaying and making tapered holes in soft metals, plastics and woods especially on curved surfaces • Includes 7 genuine Dremel accessories



#### **Tool Features & Benefits**

• Single speed control for fulltime 35,000 rpm operation • Cool-running ball bearing construction for smooth and quiet operation • Replaceable motor brushes extend tool life • Lightweight design for comfort during prolonged use

#### **Specifiacations**

- Amperage 1.15Cord Length 6'Speed 35,000rpm
- Voltage 120 AC, 50-60 Hz Warranty 2 years Weight (lbs.) 18 oz.

#### Includes

 Dremel 100 Series Single Speed Rotary Tool
 402 Mandrel
 407 Coarse 1/2" Sanding Drum • 415 Dressing Stone • 420 Heavy Duty Emery Cut-Off Wheel • 432 1/2" 120 Grit Sanding Band • 932 Aluminum Oxide Grinding Stone • 84922 Silicon Carbide Grinding Stone

#### 4000-2/30 High Performance Rotary Tool Kit

 High-performance motor for maximum performance at all speeds • Electronic feedback for consistent speed under load • Variable speed for greater versatility • Can be used with all Dremel accessories and attachments • Storage Case • Includes 30 genuine Dremel accessories • Quick Start Book



#### **Tool Features & Benefits**

• High- performance motor for maximum performance at all speeds • Electronic feedback for consistent speed under load • Variable speed provides maximum control and precision

 Separate on/off switch and speed control dial for the perfect speed every time • Can be used with all Dremel attachments and accessories

 Quick collet lock for fast accessory changes
 Cool-running ball bearing construction for smooth and quiet operation • Repaceable motor brushes extend tool life • Five year warranty

#### **Specifiacations**

• Amperage 1.6 amps • Cord Length 6 ft. • Speed Variable (5,000 to 35,000 RPM) • Voltage 120 AC, 50-60 Hz • Warranty 5 years • Weight (lbs.) 18.8 oz.

• Dremel 4000 High Performance Rotary Tool • Cicle Cutter/Straight Edge Guide • Sanding/Grinding Guide • Storage Case • Quick Start Book • 191 High Speed Cutter • 401 Mandrel • 402 Mandrel w/Screw • 407 Coarse 1/2" Sanding Drum • 408 1/2" 60 Grit Sanding Band (2) • 411 3/4" Sanding Disc, 180 grit (3) • 412 3/4" Sanding Disc, 220 grit (3) • 413 3/4" Sanding Disc, 240 grit (2) • 414 Felt Polishing Wheel • 420 Heavy Duty Emery Cut-Off Wheel (2) • 421 Polishing Compound • 426 1-1/4" Fiberglass-Reinforced Cut-Off Wheel (2) • 428 Carbon Steel Brush • 429 1" Felt Polishing Wheel • 432 1/2" 120 Grit Sanding Band (2) • 445 1/2" 240 Grit Sanding Band (2) • 541 Aluminum Oxide Grinding Wheel • 561 MultiPurpose Cutting Bit • 84922 Silicon Carbide Grinding Stone • 90962 Wrench • 932 Aluminum Oxide Grinding Stone

Tool Description	Model No.	Order No.	Price
Single Speed Rotary	100-N/7	1007	
300 Series Variable-Speed	300-1/24	3001240	
High Performance Rotary	4000-2/30	4000230	
MultiPro Cordless	7700-1/15	7700115	

#### 300-1/24, 300 Series Variable-Speed

 New, dynamic design for additional comfort and control . Includes Storage Case and 24 Accessories

#### **Tool Features & Benefits**

Variable speed from 5,000 to 35,000 rpm

· Lightweight design for comfort during prolonged use • Comfort grip housing for easier handling and better tool control • "Dove-tail" feature for Dremel-exclusive attachments • On board tool storage keeps your wrench close at



hand • Click-and-set on/off switch allows precise speed selection

- Cool-running ball bearing construction for smooth and quiet operation
- Replaceable motor brushes extend tool life

#### **Specifiacations**

 Amperage 1.15
 Cord Length 6'
 Speed Variable (5,000 to 35,000 RPM) • Voltage 120 AC, 50-60 Hz • Warranty 4 years • Weight (lbs.) 18.0 oz.

• 300 Series Variable Speed Rotary Tool • Cicle Cutter Attachment • 191 High Speed Cutter • 401 Mandrel • 402 Mandrel • 403 Bristle Brush • 407 Coarse 1/2" Sanding Drum • 414 Small Felt Wheels (2) • 420 Heavy Duty Emery Cut-Off Wheel (2) • 421 Polishing Compound • 422 Cone Polishing Tip • 426 1-1/4" Fiberglass-Reinforced Cut-Off Wheel • 428 3/4" Carbon Steel Brush • 429 Large Felt Wheel • 430 Coarse 1/4" Sanding Drum • 432 1/2" 120 Grit Sanding Band 438 1/4" 120 Grit Sanding Band
 442 Carbon Steel Bruch
 540 1-1/4" Cut-Off Wheel • 561 MultiPurpose Cutting Bit • 932 Aluminum Oxide Grinding Stone • 952 Aluminum Oxide Grinding Stone • 8193 5/8" Aluminum Oxide Grinding Stone • 85422 Silicon Carbide Grinding Stone

#### 7700-1/15, 7.2V MultiPro Cordless Kit

7.2 Vosts for general applications

 Medium duty cordless that goes anywhere • Compact and lightweight for easier handling and less fatigue.

#### **Tool Features & Benefits**

 Two speeds 10,000 and 20,000 rpm to match the proper speed required

Removable battery pack lets you use

additional packs for continuous use • 3-hour charger with LED light shows proper charging • Compact and lightweight for easier handling and less fatique • Two-year warranty

#### **Specifiacations**

- Speed 2-speed (10,000 / 20,000 RPM) Voltage 7.2 V DC
- Weight (lbs.) 11 oz.

• 7.2 V Cordless rotary Tool • Lawn Mower and Garden Tool Sharpener • 3-Hour Battery Charger • Wrench • Instruction sheet • 191 1/8" High Speed Cutter • 401 Mandrel • 402 Mandrel • 403 Bristle Brush • 407 1/2" Drum Sander • 408 1/2" 60 Grit Sanding Band • 414 Felt Wheel • 420 Heavy Duty Emery Cut-Off Wheel • 421 Polishing Compaund • 430 1/4" Sanding Drum • 540 1-1/4" Cut-Off Wheel • 932 Aluminum Oxide Grinding Stone • 952 Aluminum Oxide Grinding Stone • 8193 5/8" Aluminum Oxide Grinding Stone • 84922 Silicon Carbide Grinding Stone

#### 290-01 Electric Engraver

Engraves permanently on tools, machinery, hard steel, wood, plastics, ceramics and more. At 7,200 strokes per minute the 115V motor and replaceable carbide steel engraver point do more than just scratch the surface. Stroke adjustment dial on tool regulates engraving depth from fine lines to deep grooves.

Order No. 290	Price	



# ACHINE SHOP DISCOUNT SUPPLY

#### **ACCESSORIES AND ATTACHMENTS**

DREMEL Tools for the Imagination

SERIES 937:

#### 225-01 Flex-Shaft Attachment

- Easily attaches to corded Rotary Tool
- 36" long with slim 1/2" handpiece
- Accepts up to 1/8" shank accessories.

Model No.	Order No.	Price
225-01	0000225	



#### 2222 Flex-Shaft Tool Holder

Conveniently supports any Dremel Rotary Tool above your workbench

- Clamps to workbenches up to 1-3/4" thick
- Adjusts in height 12" to 42"

Model No.	Order No.	Price
2222	0002222	



#### Collets

480	481	482	483	
1/8"	3/32"	1/16"	1/32	

Model No.	Order No.	Price
480 481 482 483	0000480 0000481 0000482 0000483	



#### **Cut-off Wheels**

For use with Mandrel 402

409 .025 thickness 15/16" dia. (36/pk)

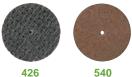
420 .040 thickness 15/16" dia. (20/pk)

.045 thickness 1 1/4" dia. (5/pk) (fiberglass reinforced)

.0625 thickness 1 1/4" dia. (5/pk) 540

Model No.	Order No.	Price/Pk
409 420 426 540	0000409 0000420 0000426 0000540	

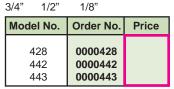




#### **Brush Accessories**

Versatile brushes for removing rust and corrosion, also for polishing metal surfaces.

428 442 443







While we show only the popular **DREMEL** items we can supply their entire range of products; please inquire.

#### FLEXIBLE SHAFT **MACHINES**

Series 443:



#### COMPLETE KITS WITH MOTOR, CONTROL, **HANDPIECE AND ACCESSORIES**

K.2272, General Applications, 115 Volt.



4432272 Order No.

Includes M.SR hang-up motor, C.FCT foot operated control, H.30 handpiece, 88pc accessory kit, more.

Motor and Speed Control carry a 2 Year Warranty.

#### Components:

- 1. Series SR Motor: Foredom's most popular and best motor for general use. The 1/6 hp, ball bearing, hang-up style M.SR runs in forward and reverse at speeds up to 18,000 RPM. It comes equipped with a motor bale for hanging, and our standard 39" long key-tip inner shaft and outer sheath.
- 2. C.FCT Speed Control: Foredom's most popular foot operated speed control. It has solid state

electronics and comes in a heavy duty plastic housing with an extra wide design. 3. H.30 Handpiece: Foredom's most popular general purpose handpiece. It features a 3-jaw, geared chuck with a 0-5/32" capacity. Accessory changes are easy with this handpiece using the supplied chuck key.

- 4. HPCK-0 Chuck Key in molded plastic handle for changing accessories. 5. AK21 Accessory Kit (88 pc. assortment with 3/32" and 1/8" shank accessories. It includes many unique items from Foredom- Purple Ceramic Sanding Bands and Discs. V Stones. CeramCut Blue Stones. steel cutters and burs. rubber bonded abrasives, mounted abrasive points, wire and bristle brushes, polishing compound and lots more.
- 6. Flexible shaft grease.

#### K.SRH440, Industrial Kit with Heavy Duty Shafting, 115 Volt.



Order No. 4432590 **Price** 

Motor and Speed Control carry a 2 Year Warranty.

#### Components:

1. M.SRH Motor Description:

Foredom's 1/6 HP, universal, flexible shaft machine runs in forward and reverse rotation at speeds up to 18,000 RPM. It combines the most important features power, reversibility, reliability, and versatility. This model comes equipped with a motor bale for hanging, and a 63" long, square drive shaft and heavy duty protective sheath. Heavy duty flex shafts are the ultimate power tools for deburring, buffing, grinding, polishing and metal finishing of any kind with larger rotary accessories. They are great for large scale

woodcarving and sculpting applications with carbide or steel burs and larger mounted grinding stones.

2. C.SCT-1 Speed Control Description:

The C.SCT-1 offers the same solid state electronics and smooth control as the C.FCT-1 but in a much heavier, cast iron housing. The added weight eliminates any unexpected movement of the control along the floor. The bottom surface of the speed control is covered with non-skid material.

- 3. H.44HT Handpiece: This special square drive, collet style handpiece is for exclusive use with our Series TXH, SRH and LXH heavy duty flex shafts. It comes with 1/8" and 1/4" collets. The tapered design allows for close and safe work.
- 4. AKHK25: This 10-pc accessory kit includes 2 aluminum oxide points, 2 CeramCut Blue stones, 1 carbide bur and 5 different mandrels for grinding wheels and cartridge rolls. All with 1/8" shanks.
- Flexible shaft grease and spare motor brushes.



While we show only the popular FOREDOM items we can supply their entire range of products; please inquire.

#### Tel 201.518.8472 / 800.388.0459 (USA & CANADA) / Email sales@msdiscounttool.com

#### **MACHINIST JACK**

SERIES 508:



## "LITTLE GIANT" JACK SCREWS

STARRETT SERIES 190, 191:



- Base is made of heavy cast steel.
- · Adjustable screw and tilting swivel head.
- Range: 3-4"/75-100mm
- Approximately 1"/25mm adjustment
- 1000 lb. lifting capacity.
- For use on various machine tools or wherever leveling is necessary.

Order No. 5080001 **Price** 



#### **HEAVY DUTY SET INCLUDES:**

- Jack, extension bases & attachments.
- Range: 2-1/4 3-3/8"mm / 75-100mm

Order No.	5080150
Price	



For leveling work on planer beds, upright drills and setting up machinery. The versatility of this tool is greatly increased by the number of attachments available.

- · Ability to lift 1,000 lbs. or more.
- 20-pitch screws for fine adjustments.
- Can be used on uneven and round surfaces.

Catalog No.	EDP Order No.	Description	Price
	Ra	nge 2-1/4" - 3-3/8"	
S190	50680	Set Complete with all Attachments	
Range 1-1/2" - 2-1/4"			
S191	50687	Set Complete with all Attachments	

#### **HEAVY DUTY "INDUSTRIAL" BENCH GRINDERS**

**SERIES 508:** 

We also distribute **BALDOR** grinders. See our website or inquire.

See page 725 for JET grinders.



- Pre-lubricated and enclosed ball bearings ensure smooth operation under full load.
- Complete with eye shields, spark shields, adjustable tool rests, fine & coarse wheels.



Model No.	BG6	BG8	BG10
Wheel Size	6" x 3/4" x 1/2"	8" x 3/4" x 5/8"	10" x 1" x 1"
Motor /	1/3 HP, 1PH	3/4 HP, 1PH	1-1/2 HP,1 PH
Electricals	110V	110V	110V
RPM	3450	3450	1720
Weight	27 lbs.	53 lbs.	93 lbs.
Order No.	2585706	2585708	2585710
Price:			

#### **CARBIDE TOOL GRINDER**

**SERIES 508:** 

Uses standard 6" x 1" x 1-1/4" plate mounted green silicon carbide or diamond wheels (supplied with white aluminum oxide plate wheels). Adjustable light swings over either wheel.

Precision built to do precision grinding - easy to operate. Vibration is virtually eliminated - armature dynamically balanced : wheels mount very close to oversize 04 ball-bearings; extra heavy 3/4" diameter shaft.

Motor supplied with heavy duty switch. Single phase grinder powered with capacitor run motor, no auxiliary moving parts - won't burn out even under repeated overloading. Protractor type tool support sets in slot of big 4-1/8" x 11-3/4" tool tables. Protractor at each end of grinder indicates angle (up to 45°) of tiltable tool tables. Water pot with spout and faucet - can be mounted over either wheel on support provided on both guards; two large water pans. Shipping weight: 110 lbs.

HP	RPM	Motor	Order No.	Price
1/2	3450	115V/1 Phase	5080000	







# MACHINE SHOP DISCOUNT SUPPLY

#### **KALAMAZOO INDUSTRIES INC.**

While we show only the popular KI items we can supply their entire range of products; please inquire.

#### 7" CUT-OFF SAW - 1 HP



#### Model K7B

Handles 1" solid round, 2" pipe. Adjustable

1 HP TEFC motor, 1 PH (110 / 220V). With cord and switch. Less abrasive wheel. 75 lbs. Spindle RPM 4800.

work length stop and down stop furnished. 1/2" wheel arbor. Cast iron base rigid alignment. Dimensions - L 22 x W 10 x H 14.

Order No. 3490007 **Price** 

#### 10" CUT-OFF SAW - 3 HP

- Big job capacity: 1-1/2" Solids, 2-1/2" Pipe.
- Swivel vise opens 4" fast, lever-lock.
- 5/8" arbor, sealed-for-life bearings.
- Cast iron base rigid alignment.
- Dimensions L 23 x W 10 x H 14.

Optional heavy steel floor stand and foot-operated chain vise (in place of swivel vise).

Model K10B 3HP TEFC motor, 1 PH (110/220V) or 3 PH (220/440V). Please specify voltage. With switch and vise. Less abrasive wheel. 110 lbs. Spindle RPM - 3450.



Model			Order	
No.	Phase	Description	No.	Price
K10B-1	1	10" Saw, bench	3490101	
K10B-3	3	model, swivel	3490103	
		vise,120 lbs.		
K10S-1	1	10" Saw, Steel	3491101	
K10S-3	3	Stand, swivel	3491103	
		vise,165 lbs.		
K10SF-1	1	10" Saw, Steel	3492101	
K10SF-3	3	Stand, Chain	3492103	
		vise,170 lbs.		
K10SW-1	1	10" Saw, WetTop	3493101	
K10SW-3	3	Stand, swivel	3493103	
		vise,190 lbs.		

**SERIES 349:** 

See following pages for

JET saws, sanders & grinders.

#### 1", 2" & 4" **BELT SANDERS**

#### Model 1SM

- 1" Belt Sander
- 1/3 HP motor, 1 PH
- 1725 RPM
- 1" x 42" belt
- 4" contact wheel
- Tilt table

Vertical sander only. 1800 SFPM., Wt. 32 lbs.

Order No. 3490001 **Price** 



## **SANDER** & STAND

## Model S6MS

6" BELT

#### 6" Belt Sander with stand

- 6" x 48" belt
- Direct drive (coupling)
- Quick-belt release
- Heavy-duty steel stand
- 1PH, or 3PH
- Manual switch
- 3500 SFPM
- Cast-iron table 6" x 10"
- Weight 230 lbs.

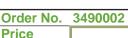




- Cast-iron frame
- Full safety guard
- 3 HP motor-
- 3450 RPM
- Reversible platen (6-1/2" x 14")
- 1/2" x 1/8" slot

Model No.	Phase	Order No.	Price
S6MS-1 S6MS-3	1 3	3490061 3490063	

1/2 HP motor, 1 PH, 4500 SFPM., Wt. 48 lbs.



## Model 2FSM

2" Sander 3450 RPM. 2" x 48" belt. 5" contact wheel, tilt table and removable platen. Full hinged guard for quick belt change. Vertical or horizontal position.

Order No.	3490002
Price	

#### Model S4S

#### 4" Sander

The all-purpose sander for metal. wood and plastics. Use in vertical or horizontal position. 1/2 HP, 1 PH TEFC motor, 3450 RPM.



4" x 36" belt with full OSHA guard, easy

opening side door for belt change. Wt. 50 lbs.

Order No. 3490004 **Price** 

Model S4 sander without full safety guard. Wt. 46 lbs.

Order No. 3490014 Price

## COMBINATION **GRINDER/** SANDER



#### Model 1SK6

#### **Combination Sander**

Two machines in one. 6" bench grinder. (1/3 HP 110V) with a 1" x 42" belt sander. Use in vertical or horizontal position. Has tilt table, contact wheel, removable platen. 3450 RPM. Wt. 32 lbs.

Order No.	3490016
Price	

#### **DISC SANDER**



#### **Model DS10**

- Heavy-duty, all steel. Wt. 48 lbs.
- Tilt table, 45° down, 15° up.
- Optional MG10 mitre gauge.
- 10" aluminum disc, 5/8" arbor. • 6" x 11" table.
- 1/2 H.P., 110/220V, 1PH. TEFC motor.

Order No.	3490010
Price	



#### **BENCH GRINDERS / BELT & DISC SANDERS**

**SERIES 179:** 



#### **BENCH GRINDERS**



	Order No.	577101	577102	577103
	Model No.	JBG-6A	JBG-8A	JBG-10A
	Shaft Diameter (in.)	1/2	5/8	1
	Wheel Diameter (dia. x w/in.)	6 x 3/4	8 x 1	10 x 1
	Wheel Speed (RPM)	3,450	3,450	1,725
	Wheel Grits	36/60	36/60	24/46
	Overall Dimensions (I x w x h/in.)	18 x 8-1/2 x 10-1/2	19 x 10 x 12-1/2	24-1/2 x 13 x 12-1/4
	Motor	1/2 HP 115V 1Ph	1 HP 115V 1 Ph	1-1/2 HP 115V 1Ph
I	Net Weight (lbs.)	37	59	110
-	List Price			

#### **FEATURES AND BENEFITS**

- UL listed
- Totally enclosed pre-lubricated ball bearings
- Heavy-duty guarded toggle switch on 8" and 10"
- Rubber mounts prevent movement STANDARD EQUIPMENT
- Cast iron wheel guards and dust vents
- One-piece quick adjusting spark guards
- · Large eye shields with quick adjustment
- Adjustable tool rests
- · Fine and coarse vitrified grinding wheels

If you have things that need cleaning, sharpening, buffing, removing rust, or removing burs from metal, then you need a grinder. JET Industrial Bench Grinders feature heavy duty construction with powerful, long-life motors for use all day, every day.

Pedestal Stand available; please inquire.

Please inquire for possible "promo" pricing.

#### 1 x 42" BENCH BELT & DISC SANDER

#### **FEATURES AND BENEFITS**

- Hinged idler wheel cover
- Power take off, allows for mounting an optional flex shaft, can be used for carving, drums sanding, deburing and dozens of other jobs
- Deluxe miter gauge turns and locks for common angles 45° left and right
- Abrasive belt unit does the work of a jig-saw, copying saw or hand file while removing material and finishing at the same time, allows the operator to get into small oppenings plus handle odd shapes and angles
- Removable platen allows for sanding, grinding or finishing of outside curves or odd shaped work pieces on the belt

Includes 2 year warranty.



Please inquire for possible "promo" pricing.

Order No.	577003
Model No.	J-4002
Belt Size (w x l/ in.)	1 x 42
Belt Speed (SFPM)	3000
Belt Table Size (in.)	6-1/8 x 7-1/8
Belt & Disc Table Tilt	45° out
Disc Diameter (in.)	8
Disc Speed (RPM)	1725
Disc Table Size (in.)	4 x 10
Dust Collection Outlet Diameter (in.)	1-1/2
Machine Dimensions (w x d x h /in.)	21 x 22 x 14
Motor	1/3HP, 115V, 1PH
Net Weight (lbs.)	80
List Price	

#### 2 x 42" BENCH BELT & DISC SANDER

#### **FEATURES AND BENEFITS**

- Deluxe miter gauge that turns and locks for common angles, 45° both left and right
- Hinged idler wheel cover
- Abrasive belt unit does the work of a jig saw, coping saw or hand file while removing material and finishing at the same time, allows the operator to get into small openings, plus handle odd shapes and angles
- Allows for sanding, grinding or finishing of outside, curves or odd shaped work pieces on the belt
- Grind, sand or finish large work pieces on the disc unit fast and efficiently, combined with the tilting table, the operator has the advantage of chamfering or beveling, table is slotted to accept miter gauge



Includes 2 year warranty.

Please inquire for possible "promo" pricing.

Order No.	577004
Model No.	J-41002
Belt Size (in.)	2 X 42
Belt Speed (SFPM)	3,100
Belt Table Size (in.)	10 X 6
Belt & Disc Table Tilt	0 to 45°
Disc Diameter (in.)	8
Disc Speed (RPM)	3,450
Disc Table Size (in.)	10-3/4 X 7-1/2
Dust Collection Outlet Diameter (in.)	1-1/2
Machine Dimensions (w x I x h /in.)	20-1/2 X 22-3/4 X 20
Motor	3/4 HP, 115V, 1 Ph
Net Weight (lbs.)	60
List Price	

(Continued)



#### **BELT & DISC SANDERS** (Continued)

**SERIES 179:** 



## **INDUSTRIAL COMBINATION BELT & DISC FINISHING MACHINES**

#### **FEATURES AND BENEFITS**

- Belt operates at any angle
- Powered by a heavy duty 1-1/2 HP TEFC motor
- Contour finishing, mitering, flat finishing, beveling and precision finishing
- Plain and compound miters are easily obtained by using the standard die cast aluminum miter gauge
- Fully machined, balanced disc runs vibration free

Includes 2 year warranty.



Order No.	414551	414552	414553
Model No.	J-4200A	J-4200A-2	J-4202A
Belt Size (w x l/ in.)	6 x 48	6 X 48	6 x 48
Belt Speed (SFPM)	2850	2850	2850
Belt Table Size (in.)	7-3/8 X 14-3/4	7-3/8 X 14-3/4	7-3/8 X 14-3/4
Belt Table Tilt	45° Out, 20° Platen	45° Out, 20° Platen	45° Out, 20° Platen
Disc Size (in.)	12	12	12
Disc Speed (RPM)	1960	1960	1960
Disc Table Size (w x l/ in.)	12 x 16-3/8	12 x 16-3/8	12 x 16-3/8
Disc Table Tilt	45° out, 20° in	45° out, 20° in	45° out, 20° in
Meter Gauge Groove (in.)	3/8 X 3/4	3/8 X 3/4	3/8 X 3/4
Motor	1-1/2HP, 115V, 1Ph	1-1/2 HP, 230V, 1 Ph	1-1/2 HP, 230V, 3Ph
Net Weight (lbs.)	327	327	324
List Price			

Please inquire for possible "promo" pricing.

#### **COMBINATION BELT & DISC FINISHING MACHINE**

#### **FEATURES AND BENEFITS**

- 6" x 48" Belt
- 10" Disc
- Two cast iron tilting tables for mitering applications
- Full access to the belt when tilted in the horizontal position
- Dust collection shrouds on belt and disc

Includes 2 year warranty.

Please inquire for possible "promo" pricing.



Order No.	414550
Model No.	J-4210K
Belt Size (w x l/in.)	6 x 48
Belt Speed (SFPM)	1650
Belt Table Size (w x l/ in.)	6 x 10-1/2
Disc Size (in.)	10
Disc Speed (RPM)	2100
Disc Table Size (in.)	7-1/2 x 13
Table Slots (in.)	5/8
Table Tilt	45° out
Motor	1HP, 115V, 1Ph
Net Weight (lbs.)	215
List Price	

#### **DISC SANDERS**

#### FEATURES AND BENEFITS

- Tilting table capability adds flexibility of 45° forward and 15° backward on positive lock rack and gear
- Table can be lowered below the disc to accomodate large work pieces
- Direct drive motor
- Low voltage protection switch
- · Rigid column and heavy duty base

Includes 2 year warranty.

Please inquire for possible "promo" pricing.



Order No.	577010	577011
Model No.	J-4421-2	J-4421-4
Disc Size (in.)	20	20
Disc Speed (RPM)	1725	1725
Table Size (in.)	27-1/2 x 10-1/2	27-1/2 x 10-1/2
Table Slot (in.)	3/8 x 10-1/2	3/8 x 10-1/2
Table Tilt	45° forward, 15° backward	45° forward, 15° backward
Motor	3 HP, 230V, 3 Ph	3 HP, 440V, 3 Ph
Net Weight (lbs.)	449	452
List Price		



#### **DRILL PRESSES**

SERIES 179:



Many more DRILL PRESSES available. See our website or inquire.

Net Weight (lbs.)

List Price

#### 15" & 20" STEP PULLEY DRILL PRESSES

Practical light to medium duty drill presses.

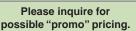
#### STANDARD FEATURES

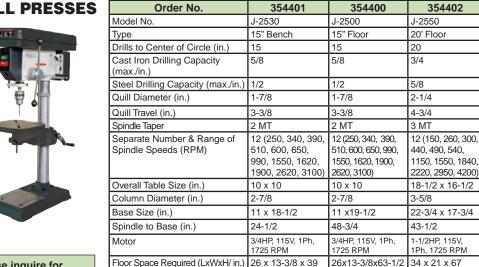
- Cast iron head
- · Large quill allows greater accuracy
- · Head casting features a permanently lubricated ball bearing spindle assembly, using four heavy duty ball bearings mounted in an enclosed quill for extended life
- Table tilts 45 degrees
- · Large ground steel column diameter for maximum head and table support
- Accurate depth stop for precise hole depths
- 3-3/8" stroke for deep hole applications (J-2550)

#### STANDARD EQUIPMENT

• 5/8" Drill chuck & arbor

Includes 2 year warranty.





147

354401

## 15" VARIABLE SPEED DRILL PRESSES

- Speeds from 400 to 5,000 RPM
- Handwheel adjustment sets the speeds
- Large 2-1/4" quill allows greater accuracy
- 3" column diameter for maximum head support
- Full bearing support on quill for maximum spindle stiffness
- 6" stroke for deep hole application
- Accurate depth stop for precise hole depths
- Safety collar
- 1/2" Drill chuck & arbor

Includes 2 year warranty.





Order No.	354550	354551
Model No.	J-A5816	J-A5818
Туре	15" Floor	15" Floor
Range of Spindle Speeds (RPM)	400 to 5000	400 to 5000
Spindle Taper	2 MT	2 MT
Quill Diameter (in.)	2-1/4	2-1/4
T-Slots Number and Size (in.)	2 & 1/2	2 & 1/2
Work Table Weight Capacity (lbs.)	90	90
Column Diameter (in.)	3	3
Drilling Capacity Cast Iron (in.)	5/8	5/8
Drilling Capacity Mild Steel (in.)	1/2	1/2
Quill Travel (in.)	6	6
Table Size (in.)	15-1/4 x 17-3/4	15-1/4 x 17-3/4
Spindle Distance to Base (in.)	47-1/2	47-1/2
Net Weight	387.2	426
Motor	1HP, 115/230V, 1Ph, Prewired 115V	1HP, 220/440V, 3Ph, Prewired 220V
List Price		

#### Please inquire for possible "promo" pricing.

Order No.	354020	354024
Model No.	GHD-20	GHD-20PF
Drills to Center of Circle (in.)	20	20
Cast Iron Drilling Capacity (in.)	1-1/2	1-1/2
Steel Drilling Capacityl (in.)	1-1/4	1-1/4
Column Diameter (in.)	4-1/2	4-1/2
Distance Spindle to Column (max./in.)	10	10
Spindle Taper	MT-3	MT-3
Spindle Travel (in.) (GHD-20)	5	5
Spindle Travel (in.) (GHD-20PF) Manual	4-1/2	4-1/2
Spindle Travel (in.) (GHD-20PF) Auto	4-1/4	4-1/4
Quill Diameter (in.)	3	3
Spindle Distance to Base (in.)	44-3/8	44-3/8
Spindle Distance to Table (in.)	30-7/8	30-7/8
Table Size (in.)	21-1/4 X 18-1/2	21-1/4 x 18-1/2
T-Slots, Number & Size (in.)	2 & 5/8	2 & 5/8
T-Slot Centers (in.)	9	9
Number of Spindle Speeds	12	12
Range of Spindle Speeds (RPM)	60 to 3,000	60 to 3,000
Motor	2HP, 230V only, 3Ph, 2 Speed	2HP, 230V only, 3Ph 2 Speed
Floor Space Required (in./L x W x H)	32 x 24 x 71	32 x 24 x 71
Net Weight (lbs.)	660	660
List Price		

#### 20" GEARED HEAD DRILL PRESSES

- · Heavy duty design allows a variety of precision drilling applications
- Easy to read internal depth gauge (GHD-20)
- Three power down feeds (GHD-20PF) .004, .007, .01
- · Calibrated fine down feed built-in
- Built-in spindle lock
- · Head tilts left or right
- Easy accessible table raiser
- Large production table and T-slotted base

Includes 2 year warranty.

Please inquire for possible "promo" pricing.



(Continued)



#### DRILL PRESSES (Continued)

**SERIES 179:** 



Many more **DRILL PRESSES** available. See our website or inquire.

#### **20" VARIABLE SPEED DRILL PRESSES**

#### **FEATURES AND BENEFITS**

- Variable spindle speeds from 300 to 2000 RPM
- External #3 Morse Taper
- Front mounted positive control depth stop
- 6" Quill travel
- Massive 3" quill diameter

The J-2221VS 20" Variable Speed Drill Press is an industrial machine with a 2HP motor. It boasts a variable spindle speed, external MT-3, 6" quill travel, massive 3" quill diameter, and a heavy-duty cast iron design. The table rotates 360 degrees around the column over the machined T-slotted base.



Includes 2 year warranty.

Please inquire for possible "promo" pricing.

Order No.	354221	354223
Model No.	J-2221VS	J-2223VS
Drills to Center of Circle (in.)	20	20
Cast Iron Drilling Capacity (in.)	1-1/4	1-1/4
Steel Drilling Capacity (in.)	1	1
Column Diameter (in.)	4-1/2	4-1/2
Range of Spindle Speeds (RPM)	300 to 2000	300 to 2000
Spindle Travel (in.)	6	6
Spindle Taper	3 MT	3 MT
Quill Diameter (in.)	3	3
Table Size (in.)	18-1/8 X 14-3/4	18-1/8 X 14-3/4
T-Slots Number & Size (in.)	2 & 5/8	2 & 5/8
Table Travel (in.)	32-3/8	32-3/8
Base Working Surface (in.)	15-1/4 x 12-1/16	15-1/4 x 12-1/16
Base Slots Number & Size (in.)	2 & 5/8	2 & 5/8
Motor	2 HP, 1 Ph, 115/220V, Prewired 115V	2 HP, 3 Ph, 220/440V, Prewired 440V
Floor Space Required (L x W x H/ in.)	34-1/4 x 27 x 77-1/4	34-1/4 x 27 x 77-1/4
Net Weight	750	750
List Price		

#### **RADIAL DRILL PRESS**

#### **FEATURES AND BENEFITS**

- The power train gears and spline shafts are made of the finest quality, heat treated and ground nickelchrome steel, giving extra strength and smoothness to high torque loads The spindle is made of finest case hardened steel, for extra strength and wear
- The spindle is supported by double row taper roller and thrust ball bearings at the nose, with thrust and radial axis bearings at the top Build to withstand exceptionally heavy drilling and boring loads to insure maximum accuracy Arm raising safety device prevents arm from dropping
- Counter balanceed mechanism for spindle return • 6 Speeds/3 Feed rates make exotic materials easier to drill, bore and tap
- Centralized control center Automatic tool ejector Independent arm electric clamping system, which locks and unlocks the head and column Push botton controls are all reduced to 110VAC Electrical circuits are located in the build-in control box at the rear of the arm. This keeps the controls dust-and-humidity-free while making them easilly accessible for maintenance Entire frame is made of Meehanite and high tensile strength cast iron to handle the heaviest of jobs
- Build in work light
   Coolant pump
- Tool kitBox table



Larger Radial Drills available. See our website or inquire.

Please inquire for possible "promo" pricing.

Includes 2 year warranty.

Order No.	320033
Model No.	J-720R
Steel Drilling Capacity (in.)	1-1/2
Cast Iron Drilling Capacity (in.)	2
Steel Tapping Capacity (in.)	3/4
Cast Iron Tapping Capacity (in.)	1
Steel Boring Capacity (in.)	2-3/4
Cast Iron Boring Capacity (in.)	4
Column Diameter (in.)	8-1/4
Distance from Column to Spindle (max./in.)	29-1/2
Distance from Column to Spindle center, (max./in.)	8-5/8
Travel of Head (Horizontal/in.)	20-7/8
Distance from base to spindle end, (max/in.)	41-3/4
Distance from base spindle end, (min/in.)	9-5/8
Travel of arm (Vertical/in.)	23-13/16
Table Size (in.)	23-5/8 x 17-1/2 x 15
T-slot Number & Size (in.)	3 & 3/4
Base Dimensions (in.)	49-5/8 x 25-3/16 x 6-9/32
Range of Spindle Speeds (RPM)	6 (88 to 1500)
Feed Rates (IPR)	.002, .004, .006
Motor	3 HP, 230/460V 3Ph, Prewired 230V
Elevating Motor	1HP
Coolant Pump Motor	1/8 HP
Machine Height from Floor (max./in.)	85-7/16
Floor Space Required (I x w x h/in.)	64 x 32 x 85
Net Weight (lbs.)	2970
List Price	



#### **COLD SAW / BANDSAWS**

**SERIES 179:** 



Many more COLD SAWS & BANDSAWS available. See our website or inquire.

#### **MANUAL BENCH COLD SAW**

#### **FEATURES AND BENEFITS**

- Self-centering vise has dual jaws for burr-free cuts
- Sturdy oil bath gear box design
- Magnetic starter with overload protection
- Cutting head swivels up to 45° for miter cuts.

The J-F225 Manual Bench Cold Saw comes with a 225mm blade for sawing solid steel. With a 1HP motor, manual vise, bronze worm gear, and hardened ground worm screw gear box, this bench cold saw is everything but small.



Order No.	414220
Model No.	J-F225
Blade Speed (RPM)	52
Blade Size (mm.)	225
Round at 90° (in.)	2-1/2
Round at 45° (in.)	2
Square at 90° (in.)	2-1/4
Floor Space Required (I x w x h/in.)	30 x 17 x 32
Motor	1 HP, 115V, 1 Ph
List Price	

Please inquire for possible "promo" pricing.

#### 5 x 6" HORIZONTAL / VERTICAL BANDSAW

#### **FEATURES AND BENEFITS**

- UL Listed single phase motor
- Exclusive design heavy-duty 14-gauge stand
- Large diameter wheels and built-in handle allows easy movement
- Front legs feature adjustable leveling pads
- Ball bearing supported blade wheel ACCESSORIES

414301 Bandsaw Blade 1/2" x .025" x 64-1/2" x 14R- Carbon

The JET HVBS-56M Metalworking Bandsaw is UL listed and powered by a 1/2 HP motor. 2 large diameter wheels and built in handle allow easy movement. Front legs ensure level and accurate cuts by featuring adjustable leveling pads. Each HVBS-56M comes equipped with a 1/2" carbon steel blade, adjustable material stop and vertical worktable. Worried about safety? Don't – the HVBS-56M shuts off automatically after each cut.



Order No.	414458
Model No.	HVBS-56M
Round at 90° (in.)	5
Round at 45° (in.)	3
Rectangle at 90° (in.)	5 x 6
Rectangle at 45° (in.)	5 x 3
Vertical Worktable (in)	9-5/8 x 9-1/2
Vise Swivels (deg.)	45°
Blade Size (in.)	1/2 x 0.025 x 64-1/2
Blade Wheel Diameter (in.)	7-3/8
Blade Speeds (FPM)	80, 120, 200
Motor	1/2HP, 115/230V, 1Ph,
	Prewired 115V
Net Weight (lbs.)	115
List Price	

Please inquire for possible "promo" pricing.

#### **5 x 8" HORIZONTAL METAL CUTTING BANDSAW**

#### **FEATURES AND BENEFITS**

- Adjustable hydraulic feed system
- Adjustable ball bearing guides
- Heat treated steel worm gear and bronze driver gear
- · Automatic shut off at end of cut
- Handles and wheels for convenient moving to various work stations





Order No.	414453
Model No.	J-3230K
Round at 90° (in.)	5
Round at 45° (in.)	4
Rectangle at 90° (in.)	5 x 7-1/2
Rectangle at 45° (in.)	4-1/2 X 5
Blade Size (in.)	1/2 X .025 X 68-1/2
Blade Speeds (SFPM)	85, 125, 200
Blade Wheel Diameter (in.)	7-1/2
Bed Heigth (in.)	23-1/2
Motor	1/2 HP, 115V 1 Ph, 1725 RPM
Floor Space Required (I x w x h/ in.)	37 x 16 x 37
Net Weight (lbs.)	165
List Price	

(Continued)





**SERIES 179:** 



Many more **BANDSAWS** available. See our website or inquire.

#### 7" X 12" HORIZONTAL/VERTICAL BANDSAW WITH COOLANT SYSTEM

#### **FEATURES AND BENEFITS**

- UL listed motor
- · Heavy cast iron bow and bed
- Hydraulic downfeed for ease of cut
- Hardened and ground worm gear
- Roller cabinet with built-in chip tray
- Automatic shut-off after cut

#### STANDARD EQUIPMENT

- Complete coolant system
- Adjustable material stop
- Bi-metal variable pitch blade
- Vertical worktable
- Chip Brush

Includes 2 year warranty.



Please inquire for possible "promo" pricing.

Order No.	414459	
Model No.	HVBS-7MW	
Round Capacity at 90° (in.)	7	
Round Capacity at 45° (in.)	4-1/2	
Rectangle Capacity at 90° (in.)	7 x 11	
Rectangle Capacity at 45° (in)	5 x 4-1/2	
Throat Depth (in.)	7	
Vertical Worktable (in.)	9-3/8 x 10	
Vise Swivels	45°	
Blade Size (in.)	3/4 x .035 x 93	
Blade Speeds (SFPM)	80, 130, 180, 285	
Blade Wheel Diameter (in.)	11-3/4	
Bed Height (in.)	23	
Motor	3/4HP, 1Ph, 115/230V, Prewired 115V	
Floor Space Required (in.)	20-1/2 x 49-1/2 x 38	
Net Weight (lbs.)	330	
List Price		

#### 10" X 16" HORIZONTAL BANDSAWS

Order No.	414472	414478	414499
Model No.	J-7020	J-7040	J-7040-4
Round at 90° (in.)	10	10	10
Rectangle at 90° (in.)	9 x 16	9 x 16	9 x 16
Blade Size (in.)	1 x .035 x 135	1 x .035 x 135	1 x .035 x 135
Blade Wheel Speeds (SFPM)	100 - 350	100 - 350	100 - 350
Blade Wheels (in.)	14	14	14
Height of Work Table (in.)	23-1/2	23-1/2	23-1/2
Coolant Tank (gal)	8	8	8
Motor	1-1/2HP, 115/230V, 1Ph, Prewired 230V	2HP, 220V, 3Ph	2HP, 440V, 3Ph
Ship Weight (lbs.)	973	973	973
List Price			

Includes 2 year warranty.



Please inquire for possible "promo" pricing.

#### FEATURES AND BENEFITS

- Variable Speed drive system
- Exclusive 6 Contact point blade guide assemblies Exclusive Swivel control panel One piece wheel cover Heavy duty, rugged transmission with hardened and ground gears Adjustable blade guides with 6 point contact combination bearing and carbide Swing away control panel Patented 3-jaw rapid-action vise Recirculating coolant system standard, 1 GPM pump, 8 gallon reservoir and coolant applied through the blade guides Cast iron blade wheels 1" Bi-metal blade Adjustable material stop.

#### 14" METAL/WOOD VERTICAL BANDSAWS

These saws are specially designed to effectively cut a variety of materials including wood, plastic, bakelite, composites, ferrous and non-ferrous metals. Capable of contour and straight cutting and resawing. Can cut delicate curves in both thick and thin stock.

#### **FEATURES AND BENEFITS**

- Cast Iron frame
- Solid, one-piece steel, base for extra stability
- Conveniently located on/off switch
- Exclusive gear box design allows wood/metal model saws to be used for a wider variety of metal, wood, non-ferrous metal and plastic cutting applications
- Miter gauge
- Dust chute
- Saw blades (Wood & Metal)
- Adjustable table

Includes 2 year warranty.

Please inquire for possible "promo" pricing.



Order Ne	44.4500	44.4504	44.4502	44.4502
Order No.	414500	414504	414502	414503
Model No.	J-8210K	J-8203K	J-8201VS	J-8203VS
Under Guide (in.)	6	6	6	6
Under Guide with Riser Block (in.)	12	12	12	12
Throat Depth (in.)	13-1/2	13-1/2	13-1/2	13-1/2
Blade Size (in.)	3/8x.025x92-1/2	3/8x.025x92-1/2	3/8x.025x92-1/2	3/8x.025x92-1/2
Cutting Speeds Wood (SFPM)	3300	3300	2600	2600
Cutting Speeds Metal (SFPM)	39, 57, 78, 107, 142, 196, 278	39, 57, 78, 107, 142, 196, 278	90-340, 116-334 Variable Speed	90-340, 116-334 Variable Speed
Table Tilt to Right	45°	45°	45°	45°
Table Tilt to Left	15°	15°	15°	15°
Table Height at 90° (in.)	68	68	68	68
Table size (in.)	14 x 14	14 x 14	14 x 14	14 x 14
Miter Gauge Groove (W x D/in.)	3/4 x 3/8	3/4 x 3/8	3/4 x 3/8	3/4 x 3/8
Motor	1HP,115V,1Ph. 1725 RPM	1HP,230/460V, 3Ph,1725 RPM, Prewired 230V	1HP,115V,1Ph, 1725 RPM	1HP,230/460V, 3Ph,1725RPM, Prewired230V
Floor Space Required (L x W x H/ in.)	20 x 16 x 68	20 x 16 x 68	20 x 16 x 68	20 x 16 x 68
Net Weight (lbs.)	280	280	325	325
List Price				



#### **MILLING MACHINES**

**SERIES 179:** 



Many more MILLING MACHINES available. See our website or inquire.

#### **BENCH TOP MILLING & DRILLING MACHINES**

Shown with optional Stand; please inquire for pricing.

#### **FEATURES AND BENEFITS**

- One-piece cast iron column for added support
- Belt cover quick slide latch allows faster belt adjustment to change spindle speeds
- Base taper allows for easier clean-up
- Larger hand wheel knobs
- UL listed motor
- Extra large worktable
- Heavy-duty tapered roller bearings support the spindle, resulting in greater tolerance and more accurate drilling depth
- New positive quick-stop knob and easy-to-read internal depth gauge (external on JMD-15)
- Extra large worktable
- 360 degree head swivel
- Heavy-duty power downfeed with manual fine feed (JMD-18PFN)
- Three power down feeds (JMD-18PFN) .004", .007", .01"

#### STANDARD EQUIPMENT

- Worklamp
- · Adjustable carbide face mill
- Drill Press angle vise
- •1/2" drill chuck, chuck arbor
- Draw Bar



Please inquire for possible "promo" pricing.

Packages which include DRO &/or powerfeeds available; please inquire.

Order No.	350017	350018	350020
Model No.	JMD-15	JMD-18	JMD-18PFN
Drill Capacity (in.)	1	1-1/4	1-1/4
Face Mill Capacity (in.)	2-1/2	3	3
End Mill Capacity (in.)	1/2	3/4	3/4
Number of Spindle Speeds	12	12	12
Max Distance Spindle to Table (in.)	15	18	26
Spindle Taper	R-8	R-8	R-8
Quill Diameter (in.)	2-1/2	3	3
T-slots, Number and Size (in.)	4 and 9/16	4 and 5/8	4 and 5/8
Motor	1HP, 1Ph, 115/230V Prewired 115V	2HP, 1Ph, 230V Only	2HP, 1Ph, 230V Only
T-slot Centers (in.)	1-13/16	1-13/16	1-13/16
Distance Base to Spindle	11	11	11
Table Size (in.)	7-1/2 x 23	9-1/2 x 31-3/4	9-1/2 x 31-3/4
Net Weight (lbs.)	457	739	787
Floor Space Required (I x w x h/ in.)	37 x 38 x 37	43 x 40 x 44	42 x 40 x 52
List Price			

Includes 2 year warranty.

#### **JVM-836 VERTICAL MILLING MACHINES**

#### **FEATURES AND BENEFITS**

- Precision bored and honed milling head
- · Large diameter quill is chromed
- High precision spindle bearings
- Over 10" of front to back ram travel
- Locks on all movable surfaces
- Hardened and ground precision table
- Head tilts left or right
- Graduated scale on column
- Precision ground dovetail ways

#### STANDARD EQUIPMENT

- · One-shot lubrication system
- Way Covers
- Draw bar
- Tool box and tools

These small mills have all the features found on our larger mills, but sized for the home shop, repair shops or small maintenance shops.

Packages which include DRO &/or powerfeeds available; please inquire.



Please inquire for possible "promo" pricing.

Order No.	9690036	9690038
Model No.	JVM-836-1	JVM-836-3
Table Size (in.)	7-7/8 x 35-3/4	7-7/8X35-3/4
Spindle Taper	R-8	R-8
Diameter of Quill (in.)	3-3/8	3-3/8
Number of Spindle Speeds	5	5
Range of Spindle Speeds (RPM)	240 - 1,550	120 - 1,550
Spindle Travel (in.)	5	5
Head Movement	90° R & L	90° R & L
Distance Spindle to Table (max./in.)	13-3/4	13-3/4
Distance Spindle to Column (min./in.)	5-1/4	5-1/4
Distance Spindle to Column (max./in.)	15-3/4	15-3/4
Longitudinal Table Travel (in.) (X-axis)	22-1/4	22-1/4
Cross Travel (in.) (Y-axis)	9-1/2	9-1/2
Collet Capacity (in.)	1/8 - 7/8	1/8 -7/8
T-Slots, Number & Size (in.)	3 and 5/8	3 and 5/8
T-Slot Centers (in.)	2-1/2	2-1/2
Maximum Weight of Workpiece (lbs.)	500	500
Travel of Knee (in.) (Z-axis)	14	14
Travel of Ram (in.)	10-1/2	10-1/2
Motor	1-1/2HP, 1 Ph, 115/230V Prewired 115V	1-1/2HP, 230V, 3Ph Prewired 115V
Overall Dimensions (in./WxDxH)	55 x 52 x 78	55 x 52 x 78
Net Weight (lbs.)	1544	1544
List Price		

(Continued)



#### MILLING MACHINES

**SERIES 179:** Many more MILLING MACHINES available. See our website or inquire.

#### JTM-1 JTM-2 VERTICAL MILLING MACHINE

#### **FEATURES AND BENEFITS**

- VERTICAL MILLING MACHINES JTM-1/2
- Meehanite casting Precision bored and honed milling head Large diameter quill is chromed • High precision Class 7 spindle bearings • Spindle head is internally cooled • Satin chrome finished dials • Heavy-duty splined motor drive • One-piece guill pinion and shaft • Three-stage power downfeed with automatic stop • Heavy-duty spindle brake
- Precision hardened and ground ways
- Precision ground table
   Adjustable gibs throughout • Internal coolant tank built into base for use with coolant system (Coolant pump not included) • Tolerance test sheet included • One-shot lubrication system
- Way covers
   Draw bar
   Tool box with tools



#### Includes 2 year warranty.

Jet's Step Pulley milling machine is the perfect solution for maintenance shops, repair shops, job shops, schools and light production.

Packages which include DRO &/or powerfeeds available; please inquire.

Please inquire for possible "promo" pricing.

Order No.	690082	690089
Model No.	JTM-1	JTM-2
Table Size	9 x 42	9 x 42
Spindle Taper	R-8	R-8
Quill Diameter (in.)	3-3/8	3-3/8
Number of Spindle Speeds	16	8
Range of Spindle Speeds (RPM)	80 - 5440	80 - 2720
Downfeeds of Spindle (IPR)	.0015003 - .006	.0015003006
Spindle Travel (in.)	5	5
Head Movement (degrees)	90 R & 45 F & B	90 R & 45 F & B
Distance Spindle to Table (max./in.)	17-1/2	17-1/2
Distance Spindle to Column (min./in.)	4-1/2	4-1/2
Distance Spindle to Column	19	19
(max./in.)		
Longitudinal Table Travel (in.) (X-axis)	23-7/8	23-7/8
Cross Travel (in.) (Y-axis)	12-1/2	12-1/2
Collet Capacity (in.)	1/8 - 7/8	1/8 - 7/8
T-slots, Number & Size (in.)	3 and 5/8	3 and 5/8
Overall Dimensions (w x d x h/ in.)	57 x 64 x 82	57 x 64 x 82
Motor	2HP, 230V, 3Ph	2HP, 115/230V, 1Ph, Prewired 230V
Net Weight (lbs.)	2200	2200
List Price		

Note: Use of static phase converter will void warranty

#### JTM-4VS VARIABLE SPEED VERTICAL MILLING MACHINE

#### **FEATURES AND BENEFITS**

- Variable speed vertical milling machines JTM-4VS
- Meehanite casting
- Precision bored and honed milling head
- Large diameter quill is chromed
- High precision Class 7 spindle bearings
- Chrome plated motor shaft with lower bearing support
- Spindle head is internally cooled
- Satin chrome finished dials
- Heavy-duty splined motor drive
- One-piece quill pinion and shaft
- Three-stage power downfeed with automatic stop
- Heavy-duty spindle brake
- Locks on all movable surfaces
- Precision hardened and ground ways and table
- Adjustable gibs throughout
- Internal coolant tank built into casting base for use with coolant system (Coolant pump not included)
- Tolerance test sheet included
- One-shot lubrication system
- Way covers
- Draw bar
- Tool box with tools

Includes 2 year warranty.



(Shown with optional DRO & Powerfeed).

Please inquire for possible "promo" pricing.

Packages which include DRO &/or powerfeeds available; please inquire.

Note: Use of static phase converter will void warranty

Order No.	690180	690182
Model No.	JTM-4VS-1	JTM-4VS
Number of Spindle speeds	Variable	Variable
Spindle Taper	R-8	R-8
Quill Diameter (in.)	3-3/8	3-3/8
Head Movement (deg.)	90°R & L, 45° F & B	90°R & L 45° F & B
Max Distance Spindle to Table (in.)	17-1/2	17-1/2
Distance Spindle to Column (in.)	19	19
Table Longitudinal Travel (in.)	34 (maximum travel)	34 (maximum travel)
Table Cross Travel (in.)	12	12
T-Slots Number and Size (in.)	3 and 5/8	3 and 5/8
T-Slot Centers (in.)	2-1/2	2-1/2
Work Table Weight Capacity (lbs.)	660	660
Travel of Knee (in.)	14-1/2	14-1/2
Travel of Ram (in.)	13-3/8	13-3/8
Quill Travel (in.)	5	5
Quill Down feed Rates (IPR)	.0015003006	.0015003006
Range of Spindle Speeds (RPM)	60-4,200	60-4,200
Table Size (in.)	9 x 49	9 x 49
Distance Spindle to Column (min./in.)	4-1/2	4-1/2
Overall Dimensions	65-1/2 x 63 x 85	65-1/2 x 63 x 85
Motor	2HP, 115/230V, 1Ph, Prewired 230V	3HP, 230/460V, 3Ph, Prewired 230V
Net Weight (lbs.)	2420	2420
List Price		



#### **LATHES**

SERIES 179-



Many more LATHES available. See our website or inquire.

#### 13 x 40" BELT DRIVE BENCH LATHE

- Enclosed gearbox design provides smooth, quite operation
- Fast, easy speed changes Low voltage motor controls
- Helical cut headstock gears reduce noise Change gears allow metric threading Spindle is supported by precision tapered roller bearings V-way bed is induction hardened and ground Gap bed section provided for large diameter work
   Independent leadscrew and feed rod T-slotted compound slide with four-way tool post Carriage mounted spindle control lever Automatic feeding and threading are fully interlocked
   Feed selectors travel in grooved ways Tailstock may be offset for turning tapers and includes an inch/metric graduated quill Oil pan included Tolerance test certificate included

Packages which include DRO &/or powerfeeds available; please inquire.

Includes 2 year warranty.



Please inquire for possible "promo" pricing.

Order No.	9321360
Model No.	BOB-1340A
Swing over Bed (in.)	13
Swing over Cross Slide (in.)	7-25/32
Swing over Gap (in.)	18-3/4
Length of Gap (in.)	8
Distance between Centers (in.)	40
Spindle Bore (in.)	1-3/8
Spindle Mount	D1-4
Spindle Taper (with sleeve)	MT-5 (MT-3)
Number of Spindle Speeds	12
Range of Spindle Speeds (RPM)	60 - 1,240
Motor	2HP, 230V, 1Ph
Net Weight (lbs.)	1055
List Price	

Includes: 3-Jaw & 4-Jaw Chucks, Steady Rest, Follow Rest, 4- Way Tool Post and Face Plate

#### 13 x 40" GEARED HEAD BENCH LATHE

- Enclosed gearbox design provides smooth, quite operation
- Fast, easy speed changes Hardened and ground gears are featured in the headstock and gearbox DI-4 spindle is precision ground for accuracy and supported by high quality tapered roller bearings Headstock is constantly oiled during operation Gear box gives wide inch threading and feed capabilities with no gear changes V-way bed design is induction hardened and ground Gap bed section provided for larger diameter work Independent leadscrew and feed rod Spindle actuation control is apron-mounted Compound and cross slide have backlash elimination Adjustable gibs are incorporated in the carriage and slideways Tailstock may be offset for turning tapers and includes an inch-metric graduated quill Oil pan included Tolerance test

Includes: 3-Jaw & 4-Jaw Chucks, Steady Rest, Follow Rest, 4- Way Tool Post and Face Plate



(Shown with optional Stand)

Please inquire for possible "promo" pricing.

Order No.	9321357
Model No.	GHB-1340A
Swing over Bed (in.)	13
Swing over Cross Slide (in.)	7-25/32
Swing through Gap (in.)	18-3/4
Length of Gap (in.)	8
Distance between Centers (in.)	40
Spindle Bore (in.)	1-3/8
Spindle Mount	D1-4
Spindle Taper (with sleeve)	MT-5 (MT-3)
Motor	2HP, 230W, 1Ph
Net Weight (lbs.)	1,215
List Price	

Includes 2 year warranty.

#### 14 x 40" GEARED HEAD ENGINE LATHES

- Hardened and ground gears are featured in the headstock and gearbox
- DI-4 spindle is precision ground for accuracy and supported by high-quality tapered roller bearings
- Headstock is constantly oiled during operation
- Splined, not keyed, shafts are utilized in the headstock
- Gearbox gives large threading and feed capabilities with no gear changes
- V-way bed design is induction hardened and
- Gap bed section provided for larger diameter work
- Independent leadscrew and feed rod
- Spindle actuation control is apron mounted
- Inch-metric dials are standard
- Compound and cross slide have backlash elimination
- Adjustable gibs are incorporated in the carriage and slideways
- Tailstock (MT3) may be offset for turning tapers and includes an inch-metric graduated guill
- Tolerance test certificate included
- · Heavy-Duty Stand.

certificate included



Packages which include

DRO &/or powerfeeds

available; please inquire.

Please inquire for possible "promo" pricing.

#### INCLUDES:

3-Jaw & 4-Jaw Chucks, Face Plate, 4-way Tool Post, Follow Rest, Steady Rest, Full Length Splash Guard, Work Lamp, Foot Brake and Micro Carriage Stop

Packages which include DRO &/or powerfeeds available; please inquire.

Order No.	321830	321840
Model No.	GH-1440W-1	GH-1440W-1
Swing over Bed (in.)	14	14
Swing over Cross Slide (in.)	8-1/2	8-1/2
Swing through Gap (in.)	20	20
Distance between Centers (in.)	40	40
Spindle Bore (in.)	1-1/2	1-1/2
Spindle Taper (with sleeve)	MT-5(MT-3)	MT-5(MT-3)
Number of Spindle Speeds	12	12
Range of Spindle Speeds (RPM)	40 - 1,800	40 - 1,800
No. of Longitudinal and Cross Feeds	40	40
Range of Longitudinal Feeds (in./rev.)	.00120294	.00120294
Range of Crossfeeds (in./rev.)	.00030103	.00030103
Number, Range of Inch Threads	40, 4 - 112	40, 4 - 112
Number, Range of Metric Threads	22, 0.45 - 7.5	22, 0.45 - 7.5
Maximum Tool Size (in.)	5/8 x 58	5/8 x 58
Max. Compound Slide Travel (in.)	3-1/2	3-1/2
Maximum Cross Slide Travel (in.)	6-3/8	6-3/8
Maximum Carriage Travel (in.)	37-1/2	37-1/2
Tailstock Spindle Travel (in.)	4-3/4	4-3/4
Steady Rest Capacity (in.)	3-3/4	3-3/4
Follow Rest Capacity (in.)	2-3/4	2-3/4
Width of Bed (in.)	10-1/2	10-1/2
Motor	3HP, 230V, 1Ph	3HP, 3Ph, 230/460V, Prewired 230V
Floor Space Required (in./LxWxH)	73-3/4 x 29- 1/2 x 47-1/2	73-3/4 x 29- 1/2 x 47-1/2
Net Weight (lbs.)	2295	2295
List Price		

Includes 2 year warranty.









## **SHOP PRESSES /** SHEAR, BRAKE & ROLLS / SLIP ROLLS



#### **HYDRAULIC SHOP PRESSES**

#### **FEATURES AND BENEFITS**

- HYDRAULIC SHOP PRESSES
- For pressing, bending and straightening operations
- Easy-to-use, hand-operated with pressure gauge for direct pressure readings
- Tables raise and lower easily with use of hand crank on the 15-, 35- and 60-ton models
- Side frames are open for inserting long material

Includes 2 year warranty.

Please inquire for possible "promo" pricing.



Order No.	331406	331416	331431
Model No.	HP-5A	HP-15A	HP-35A
Capacity (Tons)	5	15	35
Ram Diameter (in.)	1-3/4	2-1/2	3
Piston Stroke (in.)	4	4-1/2	4-3/4
Screw Stroke (in.)	3	3-1/8	4
Work Table Size (in.)	19 x 5-1/2	24-3/4 x 7-1/2	31 x 10-3/8
Lateral Movement (in.)	-	10-3/16	15
Vertical Table Travel (in.)	15-3/4	22-3/16	23-5/8
Base Size (in.)	23-1/2 x 26	33-7/8 x 29-1/2	33-1/2 x 42
Height (in.)	51-1/2	65-1/2	68
Net Weight (lbs.)	192	435	783
List Price			

#### **COMBINATION SHEAR, BRAKE & ROLL**

#### **FEATURES AND BENEFITS**

- COMBINATION SHEAR, BRAKE AND ROLL
- · Combination shear, brake and roll in one compact machine
- Right or left hand operation
- Shear can be used for mild steel, aluminum, brass, copper, lead, plastic and zinc
- Brake is equipped with easily removable fingers that permit angle, channel, box and other complex bending operations



Please inquire for possible "promo" pricing.

Order No.	/54031	/54041
Model No.	SBR-30N	SBR-40N
Shearing Capacity (mild steel) (Gauge x in.)	20 x 30	20 x 40
Bending Capacity (mild steel) Gauge x in.)	20 x 30	20 x 40
Rolling Capacity (mild steel) (Gauge x in.)	20 x 30	20 x 40
Size of Slip Roll (in./L x W)	30 x 1-1/2	40 x 1-5/8
Width of Upper Dies (in.)	1, 2, 3, 6, 8, 10	1, 1-1/2, 2, 2-1/2, 4, 7, 10, 15
Upper Die Height (in.)	4-3/8	3-3/8
Net Weight (lbs.)	300	651
List Price		

Includes 2 year warranty.

Optional stand available; please inquire.

#### **SLIP ROLLS**



Please inquire for possible "promo" pricing.

Includes 2 year warranty.

Optional stand available; please inquire.

Order No.	754020	754026	754050
Model No.	SR-2024N	SR-2236N	SR-1650N
Capacity (Mild Steel Gauge)	20	22	16
Max. Forming Lenght (in.)	24	36	50
No. & Diameter of Rolls (in.)	3 and 2	3 and 2	3 and 3
Min. Forming Radius (in.)	1	1	2
Wire Grooves (in.)	3/16, 1/4, 5/16	3/16, 1/4, 5/16	1/4, 5/16, 3/8
Overall Dimensions (in./l x w x h)	37 x 14-1/2 x 13-3/4	49 x 17 x 17	72-1/2 x 16-1/2 x 19-1/4
Net Weight (lbs.)	216	256	565
List Price			

#### **FEATURES AND BENEFITS**

- SLIP ROLLS
- Suitable for many industrial, educational and vocational shop uses
- Precision turned carbon steel rolls that are ground and polished
- Large roll adjusting screws facilitate lifting upper roll for easy material removal
- Wire grooves are standard on SR-2024N, SR-2236N and SR-1650N

#### Tel 201.518.8472 / 800.388.0459 (USA & CANADA) / Email sales@msdiscounttool.com

#### ARBOR PRESSES

**SERIES 422:** 

- Heavy duty construction
- Precision made
- 4-way anvil



Model No.	Tons Press- ure	Height Over Table	Height of Press	Base Size	Lever- age Ratio	Wt.	Order No.	Price
0	1/2	4-1/2	10	4 x 9-1/2	20:1	25 lbs.	2405000	\$39.50
1	1	5-1/2	13	5 x 11	25:1	40 lbs.	2405001	\$59.75
2	2	8-1/2	18	6-3/4 x 17	35:1	88 lbs.	2405002	\$123.50
3	3	12-1/2	23	8 x 18	50:1	160 lbs.	2405003	\$180.50
5	5	18	35	10 x 26-3/4	50:1	325 lbs.	2405005	\$707.00
Ratcheting Type - For Heavier Applications								
2R	2	8-1/2	18-1/2	6-1/4x15-3/4	-	99 lbs.	2401222	\$185.00
3R	3	12-5/8	21-1/2	8 x 18	-	178 lbs.	2401013	\$315.65
5R	5	18-1/4	34-1/2	11.5 x 26.5	-	380 lbs.	2401015	\$802.50

#### PANAPRESS

SERIES 345:





#### Model 502

Ideal for pressing bearings, sleeves, collars, forming and assembling small parts, broaching, staking, etc.

- Reversible ram is 0.75" x 0.75" (19.1mm x 19.1mm) and 5.875" (149.2mm) long and applies up to 1/4 ton (500 lbs/227 kg) of pressure!
- One end of the ram is pre-drilled for adding tooling
- Four adjustable nylon gibs provide exceptional ram control
- Arm is 8" (203.2mm) long.

 Base footprint is 3.7" (94 mm) x 7" (177.8mm) and includes four 0.25" (6.3mm) holes countersunk at the

corners for bolting to a work surface.

• Height (from base to top of back-not

 Height (from base to top of back-not including variable ram height or arm length): 7" (177.8mm).
 Weight: 5.4 lbs. (2.5 Kg).

Order No. 3450502
Price \$175.99



#### PHASE-A-MATIC PHASE CONVERTERS

**SERIES 222:** 

Runs three-phase equipment on existing 220V single-phase power

For long heavy starting loads, instant reversing, momentarily overloaded motors, or imported equipment; please inquire. Voltage stabilizer available for high line voltage and voltage-sensitive equipment such as CNC's; please inquire.



#### STATIC CONVERTERS

(Runs motor loads only at 2/3 rated HP)

#### How to Size:

The largest motor on your machine must fall within the minimum and maximum range of the converter. Do not order a larger unit or heavy duty model thinking it will give you more horsepower.

#### When To Use Heavy Duty:

Heavy starting loads (lathes, flywheel driven equip., etc.). Instant reversing, frequent starting, jogging. Air compressors (motor pulley must be reduced by 1/3 diameter).

#### **Heavily Loaded Equipment:**

Pumps, fans, blowers, direct-drive compressors, or equipment requiring greater than 2/3 of its rated HP, use a **PHASE-A-MATIC** rotary converter listed below.



For Light to Moderate Loads

	Regular Duty Series						
Model	Order	H.P.	Price				
No.	No.	Range					
PAM-100	2220100	1/3 TO 3/4	\$99.00				
PAM-200	2220200	3/4 TO 1-1/2	\$111.00				
PAM-300	2220300	1 TO 3	\$123.00				
PAM-600	2220600	3 TO 5	\$144.00				
PAM-900	2220900	4 TO 8	\$177.00				
	Heavy Duty	y Series					
PAM-100HD	2221100	1/3 TO 3/4	\$132.00				
PAM-200HD	2221200	3/4 TO 1-1/2	\$147.00				
PAM-300HD	2221300	1 TO 3	\$165.00				
PAM-600HD	2221600	3 TO 5	\$198.00				
PAM-900HD	2221900	4 TO 8	\$240.00				
PAM-1200HD	2211200	8 TO 12	\$333.00				
PAM-1800HD	2211800	12 TO 18	\$615.00				
PAM-3600HD	2213600	20 TO 30	\$837.00				
PAM-5000HD	2215000	30 TO 50	\$1257.00				

#### **ROTARY CONVERTERS**

(For running motor loads greater than 2/3 rated HP)

#### **FEATURES:**

- Multi-motor operation
- Multi-speed applications
- Resistive load applications
- No changing motors or switch gear
- Full 12 month warranty
- Easy to install
- No interference to TV, etc.

For larger sizes or 460V operation, please inquire.



Heavy Load Applications

\*Multiple Unit Model

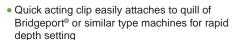
Model No.	Order No.	H.P. Range	Price
R-1	2222001	1	\$432.00
R-2	2222002	2	\$524.00
R-3	2222003	3	\$628.00
R-5	2222005	5	\$820.00
R-7	2222007	7-1/2	\$1076.00
R-10	2222010	10	\$1396.00
R-15	2222015	15	\$1956.00
R-20	2222020	20	\$2368.00
R-30	2222030	30	\$3232.00
R-40	2222040	40	\$4028.00
R-50	2222050	50	\$4760.00
R-60*	2222060	60	\$6460.00
R-80*	2222080	80	\$8056.00
R-100*	2222100	100	\$9520.00

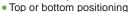
# CHINE SHOP DISCOUNT SUPPLY

#### **QUILL FEED HANDLE**

SERIES 508:







Easily removable

**QUILL STOP SERIES 508:** 

Order No. 2585003

**Price** 



Superior Import

Replaces conventional handle for speeding up operations on Bridgeport® type machines.



Order No. 2585001

## HAND SHEAR MACHINES

**SERIES 508:** 

Lever type

• Ideal machine for shearing sheet, steel, bars and rods.

 Hardened and tempered replaceable blades.

5086003

5086004

 Long handles provides plenty of shearing torque.

 Comes with predrilled holes to bolt down to work bench.



10"/250mm

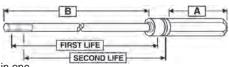
12"/300mm

48lbs/22kg

54lbs/24kg

#### TWO-LIFE DRAWBARS

**SERIES 508:** 



- Two drawbars in one
- Prevents excessive downtime
- Longer hex head & extended thread length
- To obtain "second life" after the end wears out, cut off at "V" notch and remove large spacer

Order No.	Dim. "A"	Dim. "B"	Thread Size	Type of Milling Mach.	Price
5081026 5081028			R8 7/16-20 R8 7/16-20	Variable Speed Step Pulley	

#### CLOCK SPRING ASSEMBLY

FOR MOST BRIDGEPORT® TYPE MACHINES SERIES 508:

Order No. 5081112 **Price** 





#### MACHINE MOUNTS

SERIES 450:

Effectively Isolate Vibration In Two Ways:

- 1.By preventing a vibrating machine from transferring vibration to other machines.
- 2.By insulating precision machinery from external sources of vibration.

Choosing the Correct Royal Machine Mounts. Calculate the load on each mount by dividing the total weight of the machine by the number of mounting locations. Note: sometimes it may be necessary to compensate for machines which do not have an evenly distributed load.

Туре	1	2	3	4	5
Order No.	27001	27002	27003	27004	27005
Load Range per Mount (lbs.)	100-1,100	880-2,200	1,760-5,500	3,300-8,800	6,600-12,000
General Non-Impact Machinery					
Load Range per Mount (lbs.)					
Presses					
125 strokes/min-max	150-440	440-880	880-3,080	3080-5,940	5,940-8,800
180 strokes/min-max	130-300	260-770	770-2,420	2420-4,290	4,290-7,700
200 strokes/min-max	110-260	260-550	550-1,760	1760-2,860	2,860-5,280
Max. Load per Mount (lbs.)					
Plastic Injection	390	790	2,180	5,450	8,220
Molding Machines			·		
Diameter	3-5/32"	4-3/4"	6-5/16"	6-5/16"	7-7/8"
Height, Including Leveling Plate	1-5/8"	1-15/16"	2-5/16"	2-5/16"	2-23/32"
Over-All Height	5-1/4"	5-1/4"	7-1/2"	7-1/2"	7-7/8"
Level Adjustment	23/32"	23/32"	1"	1"	1"
Leveling Bolt Size	M12x1.25	M16x1.5	M20x1.5	M20x1.5	M20x1.5
Standard Leveling Bolt Length	4-23/32"	4-23/32"	6-11/16"	6-11/16"	6-11/16"
Price Each					

Stainless steel and zinc plated mounts available; please inquire.





- Royal Machine Mounts meet OSHA requirements by preventing machines from "walking" - without the need for bolting or cementing.
- All mounts incorporate a large, chloroprene rubber base which is resistant to oil, water, and many chemicals.
- · All metal parts are zinc plated for rust protection and long life.
- Support cup is machined from a solid bar instead of deep drawn, resulting in increased thickness and longer life.
- Unique retaining clip ensures that mounts will stay together when machine is moved to a new location.
- Better machine performance and reduced maintenance costs are two of the many benefits of using Royal Machine Mounts.

#### Tel 201.518.8472 / 800.388.0459 (USA & CANADA) / Email sales@msdiscounttool.com

#### **POWER FEED**

**SERIES 508:** 



#### **ELECTRONIC COUNTER &** ELECTRONIC TIME COUNTER SERIES 257:



#### LONGITUDINAL

- New stronger design with polished aluminum housing.
- 110v with manual reset switch.
- Eliminate gear changing.
- Auto cut-off at end of cut.
- Pilot light.

#### SPECIFICATIONS:

Speed Range: 1-9" per minute Rapid Traverse: 40" per minute Torque Rating: 135 lbs/in Gearing: Helical

"X" and "Z" Axis Power feeds available; please inquire.



Superior Import

Super compact, large LCD display, long battery life, panel mount, reset.

- Connection: Lead wires, wire-wrap terminals.
- Counter has 30 cycle per second counting speed. Counts to 99,999,999.
- Time counter elapsed time up to 99,999.99 hours.

#### **Electronic Counter**

Order No. 2575000 **Price** 

**Electronic Time Counter** 

Order No. 2577500 **Price** 



Order No. 5080015

**Price** 

# DIGITAL READOUT KITS

**SERIES 725:** 

**Digital Z-Axis Readout** for Bridgeport® Type Mills



- Can be mounted on almost any surface.
- SPC Output Resolution .0005" / 0.01mm.
- Accuracy: ± .001" / 0.03mm
- LCD unit displays "E-05" for movement error.
- Includes 2 mounting brackets and EZ mount bracket kit.
- · Offers precise linear measurement capabilties.
- One SR44 1.5V battery is supplied.
- Sliding unit can be moved 40" per second.

	LCD Horizontal		LCD Vertical	
Range	Order No.	Price	Order No.	Price
6"/150mm	7250061		7250062	
8"/200mm	7250081		7250082	
12"/300mm	7250121		8250122	
18"/450mm	7250181		8250182	

#### PRO/CALC® - MATERIAL DIRECTORY & SPINDLE SPEED CALCULATOR



Throw out those oil stained charts! Pro/Calc® takes the guess work out of the question "what RPM should I be using?"

The Pro/Calc® a hand held battery operated reference directory that requires no mathematical computation

It is as easy as 1-2-3

Simply Select:

- 1- Material to be machined (80% of the most used metals)
- 2- Operation: cut-off, form tool, end mills, counterbore, turning, fly-cutting, face milling, tapping, reaming, and drilling.
- 3- Diameter of tool.

The correct RPM will automatically be displayed. (Also displayed are heat treated materials and tap drill sizes.)

Order No. 6000008 **Price** 

# Pro/Calc 1 1 1

#### **BLUE KNEE** LENGTH APRON

SERIES 309:



#### **5-FIGURE DIGIT COUNTER** SERIES 257:

Counts to 99,999. Reset knob for quick "zero" setting. 4 holes in base for easy and rigid mounting. Counter is activated by a 45° movement of the arm. Unit comes with a spring on the lever arm for attaching to machine.

Order No. 1735005 **Price** 

39" overall; knee length with full bib and pocket.

Order No. 1915500 **Price** 



#### **QUILL KIT**

**SERIES 572:** 

#### **Easy Installation Fits Most Vertical Knee Mills FEATURES:**

- Easy to read LCD with resolution of .0005"/0.01mm
- Push button controls for inch/mm, Zero-Set and On/Off
- Powered by a single SR-44 Battery which lasts about 1 year with normal use
- SPC Output for data transmission to Data Processors or LED Remote Display Box





**Digimatic Quill Kit complete** with brackets & scale for Bridgeport® Type machines.

Order	No.	053-906
Price		



#### **NEW MITUTOYO AOS - DRO SYSTEM KA COUNTER WITH AT - 715 MAGNETIC SCALES**

**Mitutoyo** 

#### **KA Counter**

- Selectable Resolutions (.00005, .0001, .0002, .0005") allows choice according to the tolerance requirements of the work being performed
- Bolt Circle Calculation (eliminates need to use trigonometry to calculate hole positions)
- Diameter Mode (doubles reading on cross axis of lathe)
- Tool Offsets (stores datum points for 10 tools which eliminates need to re-zero after tool changes)
- Connectable with AT-715 Magnetic scales or AT-100 series Glass scales (allows use of magnetic and/or glass scales for different applications)
- RS-232 Output (optional) allows data capture and storage on remote computer
- Touch Probe (optional) allows automatic edge detection for zeroing part



#### **AT-715 Magnetic Scales**



- Fully submersible in coolant (coolant never effects scale position reading)
- +/- .00012" accuracy over ft./12 in.
- True Absolute (no battery backup means position information is never lost, even after power interruption)
- Shock Resistant
- Reader Head mounted on saddle guide for easy installation (alignment not as critical)

#### **ABS AOS DRO Linear Scale System**

#### **SPECIFICATIONS**

#### AT715 Linear scale

747 To Elifour Godio			
	Electromagnetic induction system (3 tracks, absolute AOS)		
	0.005 mm / 0.002 mm / 0.001 mm (Changeable by parameter setting)		
	.0005 inch / .0002 inch / .0001 inch / .00005 inch (Changeable by parameter setting)		
Height	1.43" / 36.5mm		
Width	.87" / 22mm		
Length	varies according to travel length specified/ordered		
	3.94" x 70.87"/100 ~ 1800 mm		
	Mitutoyo original Serial format (can not connect to KL, KLL, KS, KC Counter)		
	( 7 + 13L / 1000 )um [ L : Effective range (mm) ]		
speed	50 m / min.		
	Corresponding to the regulations		
	Width Length		

KA-Counter	
Resolution	0.005 mm / 0.002 mm / 0.001 mm (Changeable by parameter setting) .0005 inch / .0002 inch / .0001 inch / .00005 inch (Changeable by parameter setting)
Readout	2-axis, 3-axis ( Using 2-axis counter for 1-axis requirement.) ( For lathes, using 3-axis counter with the parameter setting changed
Display	Seven segment LED / 7 digit, 1 digit for coordinate number
Main function	Zero setting, Preset, Low digit OFF, 10 coordinate position memory, Bolt-Hole-Circle, mm / inch conversion, Counting direction setting, Resolution setting (Parameter setting), Diameter display, 1/2 calculation, Smoothing display, Tool offsets (Parameter setting)
Input	Automatic discrimination of scale connected ABS AOS DRO scale (AT715 and AT100 series) 2Vpp sine wave
Output	RS-232C interface ( Option )
CE marking	Corresponding to the regulations

### **Mitutoyo**

# DIGITAL READOUT SYSTEMS SERIES 572:

**Mitutoyo** 

#### MAGNETIC ABS - AOS - DRO PACKAGE FOR MILLING SYSTEM

**USING KA COUNTER AND AT715 SCALES** 

Specify "Package" number when ordering.

2 Axis. KA Counter Milling System

		Y Axis Travel			
	AT715-300 (12") AT715-350 (14") AT715-400 (1		100 (16")		
	For Bridgeport #1	For Taiwan	For Lagun	For Taiwan	
AT715-750 (30") Axis Travel	Package Number 174-173PM1	Package Number 174-173PM3	Package No.	Package No.	
AT715-900 (36") Axis Travel	174-173PM2		174-173PM4	174-173PM5	
AT715-1000 (40") Axis Travel		174-173PM6	174-173PM7	174-173PM8	

#### Package Includes:

- KA Counter
- Brackets for Scales
- AT715 Linear Scales
- Display Arm Kit

Order No. 5720001 Price

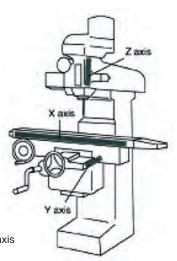
3 Axis, KA Counter Milling System (Z axis length 6")

		Y Axis Travel				
	AT715-300 (12") AT715-350 (14") AT715-400 (		400 (16")			
	For Bridgeport #1	For Taiwan	For Lagun	For Taiwan		
AT715-750 (30") Axis Travel	Package Number 174-175PM1	Package Number 174-175PM3	Package No.	Package No.		
AT715-900 (36") Axis Travel	174-175PM2		174-175PM4	174-175PM5		
AT715-1000 (40") Axis Travel		174-175PM6	174-175PM7	174-175PM8		

#### Package Includes:

- KA Counter
- Brackets for Scales
- AT715 Linear Scales/ AT715-150mm (6") for Z axis
- Display Arm Kit

Order No. 5720002 Price



#### **AT100 SERIES - GLASS SCALE UNITS**

#### **FEATURES**

#### 1. Low-priced model AT115

The low-priced version of Mitutoyo Linear Scale AT115 series are available. The mounting dimensions of all the AT115 models are the same as those of the AT111 series. Most suitable for mounting on a milling machine or an XY table.

#### 2. Joint structure of detector

The ball joint structure is employed at the joint of the detector head and the slider (sensor unit) inside the scale. This structure prevents the slider movement from deviating from the normal moving directions when the detector head shifts to right and left, thus providing a normal scale reading and increasing flexibility in the scale installation. In addition, this structure is highly rigid and therefore has an excellent durability.

#### 3. Water-proof connector

A waterproof/splash-proof connector is used to enable separation of the signal cable. Thus, an installation and maintenance of the Linear Scale can be easily performed. (The signal cable in AT115 cannot be separated.)

#### 4. Conduit armored type signal cable

A waterproof/splash-proof connector is used to enable separation of the signal cable. Thus, an installation and maintenance of the Linear Scale can be easily performed. (Thesignal cable in AT115 cannot be separated.)

#### 5. Unique rubber-lip openings

The rubber-lip openings are shaped like the bottom of a ship that plows the water.

#### 6. Excellent splash and dust-proof rubber lip structure

The rubber lips are made of a strong, special urethane and wires are inserted in these lips to improve the splash-proofing and dust-proofing of the scale. (AT102 only)

# GLASS LINEAR SCALE PACKAGE FOR GRINDER SYSTEM

**USING KA COUNTER AND AT115** 

2 Axis, KA Counter Grinder System

Specify "Package" number when ordering.

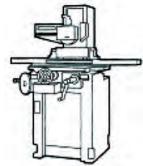
	Cross Side			
Vertical			AT115-250 (10")	AT115-300 (12")
AT115-300 (12")	Package Number 174-173PG1L	Package Number 174-173PG8L	Package Number	Package Number
AT115-350 (14")	174-173PG7L	174-173PG3L	174-173PG5L	
AT115-400 (16")		174-173PG4L	174-173PG13L	
AT115-450 (18")	174-173PG2L	174-173PG9L	174-173PG6L	174-173PG14L
AT115-500 (20")	174-173PG10L	174-173PG11L	174-173PG15L	
AT115-600 (24")	174-173PG12L	174-173PG16L		

Many other packages available; please inquire.

#### Package Includes:

- KA Counter
- AT115 Glass Linear Scale / Magnetic Scale available at same price; please inquire
- Bracket Kits
- Display Arm Kit

Order No. 5720003 Price



# LINEAR SCALE PACKAGES FOR LATHES

#### Package Includes:

- KA Counter
- AT115, AT102 Glass Linear Scale and Extension Cable.
- Bracket KitsCounter Stand
- Counter Trav

#### 2 Axis, KA Counter Lathe System

	X Axis Travel		
Z Axis Travel	AT115-200 (8")	AT115-250 (10")	AT115-300 (12")
	Package Number	Package Number	Package Number
AT715-1000 (40")	174-173PL3	174-173PL4	-
AT715-1200 (48")		174-173PL6	-
AT715-1500 (60")		174-173PL 7	174-173PL29

Z-Axis Travel	Order No.	Price
1000 1200, 1500	5720004 5720005	

Specify "Package" number when ordering.



# ACHINE SHOP DISCOUNT SUPPLY





#### **MACHINE SAFETY GUARD SYSTEMS**

SERIES 986:



#### VISORGUARD™

Unbreakable Lexan® Shield Provides Complete Protection Between Cutting Tool and Operator's Eyes.

#### **DOWN-TO-EARTH-FEATURES!**

- Flexbar® arm permits setting of Visorguard™ at the correct height and angle for each setup.
- Flip shield up to load part and down for machining.
- Special spring-loaded shaft makes shield stay put no springback.
- Wing-shaped shield protects workers at adjacent machines.
- Flexbar® locks rigid; has stainless aircraft grade tension cable.
- Can be installed in minutes on CNC mills, conventional milling machines and others.

#### Dimensions:

- Shield Size 16" wide X 8" high
- Flexbar arm 10" long



Model No.	Description	Order No.	Price
13055	Visorguard™ Complete with Mounting Bracket, Flexbar, and all mounting hardware.	8613055	
13050		8613050	
13054	Lexan® Shield Replacement for both guards.	8613054	



While we show only the popular work was items we can supply their entire range of products; please inquire.

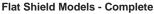
#### THE LEXAN® FLEX-SHIELD

Protects Your Eyes Against Chip & Liquid Burns. Safety Shield on Flexbar® Universal Positioning Arm. Quick Cam Action Locking (Shield swivels 360° and locks positively where placed).

- Overall Height of Flexbar Stand: 14"
- Super Power Disc Mag Base: 3.16" dia.
- Shields made of durable clear view Lexan 1/8" thick.
- Choice of concave or flat.

#### **Concave Shield Models - Complete**

Model No.	Shield Size	Order No.	Price
13313	6" x 8"	8613313	
13314	8" x 10"	8613314	
13315	10" x 12"	8613315	



iat officia models complete				
Model No.	Shield Size	Order No.	Price	
13316 13317 13318	6" x 8" 8" x 10" 10" x 12"	8613316 8613317 8613318		



Lexan® Replacement Shields - Carton of 3

	Concave			Flat		
Shield Size	Model No.	Order No.	Price	Model No.	Order No.	Price
6" x 8"	13093-L	8613093		13120-L	8613120	
8" x 10"	13094-L	8613094			8613121	
10" x 12"	13095-L	8613095		13122-L	8613122	

#### LATHEGUARD™



- Ready to mount: affix mounting bracket with two screws.
- Back of shield reinforced with plated wire-form housing.
- Locks in swing away or functional positions.
- Swings away easily
- · Heavy Duty Cast Mounting bracket supplied.
- Heavy Duty Chrome-plated extension tube and hardware.

Model No.	Suggested Lathe Size	Center Height	Use With Chucks	Shield Width	Shield Length	Tube Length	Order No.	Price
12999	Very Small Lathes	3.9"	up to 6" dia.	6-1/4"	7.8"	10"	8612999	
13060	6" to 12"	6"	up to 8" dia.	6-1/4"	11.8"	10"	8613060	
13061	12" to 16"	8"	up to 12" dia.	8"	15.8"	11-1/2"	8613061	
13062	16" to 20"	10"	up to 16" dia.	8"	19.70"	13"	8613062	
13064	20" to 24"	13"	up to 20"dia.	8"	23.6"	13"	8613064	

- Clear Lexan®, semi-circular Wrap-a-round Guards.
- Rib reinforced
- Robust construction
- · Light in weight
  - **EXCEEDS O.S.H.A. REQUIREMENTS**

#### **TRAVELGUARD™**

Cross slide type.

Extra-heavy duty O.E.M. type for Lathes, Grinding Machines, etc. Travels with cross slide operator protection wherever tool is cutting.

- · Easy to mount on cross slide (tool compound).
- Fully adjustable in all directionsforwards & frontwards.
- Heavy steel construction with thick Lexan® window.
- Frame is 3/4" construction made of heavy gauge steel with high quality painted finish.
- Front panel is hinged and can be lifted for quick access to machine.



Model No.	Description	Order No.	Price
13086	20" Chuck Max	8613086	
13087	28" Chuck Max	8613087	

#### PANEL GUARD™

.....

Portable, yet sturdy free-standing guard. Ideal for separating or back quarding machines. Additional panels can be added to cover any size area.

Flexbar Panel Guards™ consist of 4 hinged panels with a pivot spine. Frames are extruded aluminum; inserts are replaceable; lower panels are safety colored, tempered masonite; upper panels are 1/8" thick, high impact resistant, transparent Lexan® Panel Guard™ does not obstruct air circulation or visibility, yet confines chips and oil to machine area for easy cleanup.



Model		Order	
No.	Description	No.	Price
13035	Flexbar Panel Guard™	8613035	
	Basic 4-Panel Set Complete		
13036	Flexbar Panel Guard™	8613036	
	2-Panel Expansion Set		
13037	Flexbar Panel Guard™	8613037	
	Extra Slide-In Flexible Hinge (1 ea.)		

# LIGHTING

#### INDUSTRIAL GLOVES

**SERIES 309:** 



# MAGNETIC BASE WITH SAFETY SHIELD

**SERIES 309:** 





All split leather. "Welders" glove.

Order No. 1	915300
Price:	\$5.50



Full split leather palm.

Order No. 1	915200
Price:	\$1.85

Prevents accidents

- Grips flat or round surfaces
- Fits lathes, grinders, shapers etc
- Provided with crystal clear flat shield
- Shield swivels 360° and locks in place



Size Of Flat	Shield	Order No.	Price
6 x 8"	150 x 200 mm	3090580	\$25.80
8 x 10"	200 x 250 mm	3090581	\$27.80
10 x 12"	250 x 300 mm	3090582	\$29.40
12 x 16"	300 x 400 mm	3090583	\$33.00
16 x 20"	400 x 500 mm	3090584	\$35.40
Magnetic base	only without shield	3090379	\$22.80

Full split leather palm. Leather knuckle guard. Elastic band for snug fit.

2-1/2" Gauntlet

Order No. 1915000 Price: \$2.15

4-1/2" Gauntlet

Order No. 1915100 Price: \$2.90



Many other styles of gloves available; please inquire.

#### HIGH INTENSITY FLEXIBLE LIGHT TOOLS

**SERIES 317:** 



# BEND-A-LIGHT®

∭Umingior™ Made In U.S.A.

- · High intensity flexible light.
- Amazing brightness from a 1/8" or 3/16" Dia. High intensity bulb.
- · Goes where ordinary lights won't fit.
- Alkaline batteries included.



Model No.	Description	Order No.	Price
16102	16", Pro, 3/16" Lamp	6016102	\$18.95
10150A		6010150	\$23.50
15150A		6015150	\$45.30

#### **EYELIGHTS HANDS FREE FLASHLIGHT**

- Ideal for all professional work
- Batteries included
- The plastic used in Eyelights is flexible.
   May be adjusted by bending bows in and out.



Model No.	Description	Order No.	Price
17200	EyeLIGHTS, black, AA batteries	9917200	\$13.25
50103	Replacement bulb	6050103	\$1.15

# INSPECTOR™ □ □ LIGHTED MIRRORS & ACCESSORIES

- Lighted 1-1/2" x 2-1/2" mirror
- Light floods inspection area
- Thumb controls 90° mirror adjustment
- Makes thorough inspection possible
- 2 (AAA) Batteries Included

Model No.	Description	Order No.	Price
05100A	18" Rigid shaft adj. mirror 1-1/2 x 2-1/2"	6000031	\$24.65
05180A	18" Flexible shaft adj. mirror 1-1/2 x 1-1/2"	6005180	\$30.05
05240A	24" Flexible shaft adj. mirror 1-1/2 x 2-1/2"	6005240	\$35.15
05420	42" Flexible shaft adj. mirror 1-1/2 x 2-1/2"	6005420	\$40.35
50103	Replacement lamp for 05420	6050103	\$1.15
05154	Replacement 1X mirror 4 x 4"	6005154	\$5.90
05515	Replacement bulb for 05100A, 05180A, 05240A	6005515	\$4.50



While we show only the popular tiems we can supply their entire range of products; please inquire.



### LIGHTING

SERIES 958:

#### MACHINE AND MAGNIFIER LAMPS

SERIES 958:

#### **MAGNIFIER LAMP**

- 60 watt, 110 volt, incandescent bulb.
- 4" round magnifier 3x with small 7x magnifier for extra detail.
- 32" swing arm assembly.





#### **MACHINE LAMP**

- Up to 32" extension.
- 4-way mounting clamp.
- · Rated up to 75 watts.
- 360° swivel spring balanced arm of durable construction.

Order	No.	9580009
Price		

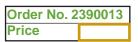


#### MAGNETIC LAMP

**SERIES 239:** 



Flexible arm allows any projection angle of light. UL power supply cord and 60VA rating. With a powerful high strength ALINCO permanent magnet. Dimension of magnetic base body: L (2.28") x W (2") x H (20.4"). Magnet attraction: 110 lbs.





#### **FLUORESCENT FIXTURES**

**IP67 (WATERPROOF UNDER PRESSURE)** 

Perfect For Washdown Applications

#### APPLICATION

These powerful, industrial strength, fluorescent fixtures provide exceptionally bright and natural white light (4100K), over a wide surface area. They are built to endure the harshest machine and industrial environments, including severe levels of water/coolants/ lubricants, vibration, dust and flying metal debris. Ideal for machining centers, inspection stations, presses, EDMs, screw machines and industrial task lighting.



The "Super Acrylic" outer casing (lens) is remarkably resilient, virtually unbreakable, and lightweight for use in the most hostile environment. It is built to endure extreme vibration while remaining waterproof in the wettest conditions. Optional polycarbonate and borosilicate lenses are available.





#### **HIGHEST QUALITY**

Specifically designed for your machine tool or your production machine. The entire series is rated IP 67 (waterproof under pressure ) assuring resistance to moisture and coolant drenching. Secure bulb mounts ignore machine vibration. Standard, off the shelf bulbs are available worldwide offering an average life of 10,000-12,000 hours. "Super Acrylic" lenses resist flying debris and chips. Ballasts are pre-drilled for mounting, easily serviceable, and mounted away from the fixture for maximum operator safety and to ensure long life. Oil resistant (SJT), 25 ft., grounded, cording is standard. All fixtures ship complete with bulb for "Plug 'N Light" installation.

	Model No.	Watts	Lgth	Lumen Rating	Rated Hrs	Volts	Hz	Order No.	Price	Replacement Bulb Model No.
	FLP-2600	26	10.5"	1500	10,000	120/240	50/60	9582600		PL-C-26W-4
	FLP-3600	36	20.5"	2900	12,000	120/240	50/60	9583600		FT36DL /841
	FLP-5500	55	25.5"	4800	10,000	120/240	50/60	9585500		Dulux L 55W/21-840
ı	FLP-8000	80	26.5"	6000	10,000	120/240	50/60	9588000		PLL80W841

<sup>\*</sup> All fixtures in the MILLENNIUM SERIES are standard with customer adjustable ballasts

#### **FLUORESCENT GOOSENECK LAMP**

WATERPROOF UNDER PRESSURE



#### APPLICATION

The Series 900 design was created to offer exceptional functionality as well as withstand the harshest machine and industrial environment using heavy coolants and liquids.

This waterproof fixture is virtually shatterproof even in the most hostile environments such as vibration, coolants and liquids, dust, and flying metal debris.

#### **SUPERIOR FEATURES**

- Waterproof
- 10-1/2 inch acrylic globe is virtually shatterproof.
- 13 watts rough surface fluorescent, 4100 degree Kelvin bulb offers pure natural white natural light over a large surface area. The rough surface is 10 times more impact-resistant than standard fluorescent bulbs.
- The dual neck system offers "stay-in-place" positioning virtually forever.
- Field proven water-tight base protects the expensive ballast.
- 6 feet of SJT oil-resistant cabling with grounded plug.
- Use standard off-the-shelf Phillips or Osram bulb found easily anywhere in the world.
- Fluted base offers simple mounting.

Model No.	Description		
FLP-900-20	Beaded Fluorescent	Gooseneck 110 vol	lt 13 watt
OPTIONAL ACCESSORIES Order No. Price			Price
HLP-29-005 Surface Pla	ate	9580295	
HLP-22 Wall Bracket		9580010	
HLP-23 C' Clamp		9580011	
HLP-30 Magnet Base A	ssembly (8" x 8")	9580012	
PL13/41CW-RS 13 Wat	t Replacement Bulb	9580013	
FLP-08 Magnet Cord Ho	older	9580108	

Model No.	Order No.	Price
FLP-900-20	5890020	

#### **LIGHTING**

SERIES 958:

#### HALOGEN LAMPS (12/24 VOLT VERSION)

IP67 (WATERPROOF UNDER PRESSURE)
IDEAL FOR HOSTILE MACHINE ENVIRONMENTS

**Perfect For Washdown Applications** 

#### **APPLICATION**

The new Tough Guy Series (HLP-1000) of Halogen Lighting fixtures are designed and built to meet the demands of the most hostile machine and industrial environments in terms of heavy coolant/lubricants, vibration, and flying metal chips.

#### **SUPERIOR FEATURES**

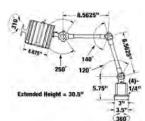
- 5" head is molded as a single piece of extruded aluminum.
- This offers a waterproof head for maximum reliability in a harsh coolant application.
- Articulated arms, elbow joints, and bases are waterproof, keeping the light dry in even the most hostile coolant and lubricant environments.
- Superior chip-resistant tempered glass lenses offer your operation maximum safety, provides maintenance-free operation, and ease of cleaning.
   No protective guards are needed that can fracture the light source.
- Large positioning knobs are standard. Once positioned, each light will
  withstand the most hostile coolant and vibration environment without movement.
  Up to five points of adjustment. Base offers 320 degree swivel providing accurate
  light disbursement to the work area.
- Bulbs are easily replaced by removing the front 6 screws and tempered glass lens.
- 70 watt/24 volt halogen bulb is standard with each fixture offering intense white light to the operator and application. Fixtures will also accommodate 70, 50, and 20 watt halogen bulbs. If a 12 volt fixture is required, simply replace the 24 volt bulb with a 12 volt bulb.
- Made of anodized extruded aluminum that won't rust over time and ships standard with 6 feet of SJT oil-resistant cable.
- The Tough Guy 1000 Series of halogen machine tool lights operates with an external
   12 or 24 volt transformer or can be wired directly to the 12 or 24 volt outlet in the machine control panel.
   Operator safety is enhanced without danger of electric shock.

Part No.	Description	Order No.	Price
HLP-1000L	34" Long Arm / Extended Height = 44"	9581000	
HLP-1000M	20" Medium Arm Extended Height = 30.5"	5810001	
HLP-1000S	Short Arm Extended Height = 13.5"	5810002	
HLP-T12/120	Coil Transformer 12/120 Volt	9512120	
HLP-T24/120	Coil Transformer 24/120 Volt	9524120	

#### Ordering Instructions:

Light & Transformer purchased separately; please specify.

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Part No.	Description	
OPTIONAL AC	CESSORIES	
OPTIONAL AC	CESSURIES	
HLP-22-1000	Wall Bracket / Machine Bkt.	
HLP-30	Magnet Base Ass'y (8"x8")	
FLP-8	Magnetic Cord Holder	
HLP-99-1000	Fuse 1.00 / 4	
HLP-23	'C' Clamp	
BULBS		
HLP-55-H3-12	55 Watt Bulb - 12 volt H-3	
HLP-70-H3-24	70 Watt Bulb - 24 volt H-3	
HLP-75-B1-12	75 Watt Bulb - 12 volt Bi-pin	

#### **HALOGEN GOOSENECK LAMPS**

IP54 (Splashproof)

110 Volt Version

**APPLICATION** 

Recommended for dry environments.

#### **SUPERIOR FEATURES**

- 35 watts of halogen natural white light standard.
- Transformer built into the base. Fixture can be plugged directly into a 110 volt power source.
- Designed with highly efficient plastic beads over a coaxial cable that hold the light in position vertically forever. Neck will not loosen over time.
- Heavy duty plastic head with on/off switch offers maximum safety.
- Magnets, machine bracket and surface plate available.

Part No.	Description	Order No.	Price
HLP-005-14	Long Neck - 14 Beads - 35 Watts 110 Volts	9580514	\$235.75
HLP-005-20	Extra Long - 20 Beads - 35 Watts 110 Volts	9580520	\$223.95
OPTIONAL ACC	CESSORIES & BULB		
HLP-24-005	Magnet	9580245	
HLP-29-005	Surface Plate	9580295	
FLP-8	Magenetic Cord Holder	9580108	
HLP-35-MR	Watt Replacement Bulb	9580135	
16-12 35			







REFERENCE BOOKS

SERIES 695:



#### **MACHINERY'S HANDBOOK CD-ROM 28TH EDITION**

**COMBO PACK** (Includes: "Toolbox" Edition Handbook & CD-ROM)

Order No. 6951000 Price:



#### **MACHINERY'S HANDBOOK 28TH EDITION**

2,704 pages with thumb index

After more than 85 years of continuous publication, Machinery's Handbook remains unchallenged as "The Bible" in its field, and the

new 27th edition remains true to the Handbook's original design as an

extraordinarily comprehensive yet practical and easy-to-use reference

An expanded table of contents and index to make finding information

• An expanded coverage of speeds and feeds, including new material

A new and innovative presentation on the economics of machining

and/or maximize production output in the most cost-effective way.

Price:

An expanded mathematics section, including new coverage of

and grinding which is designed to help lower unit manufacturing costs

for mechanical and manufacturing engineers, designers, draftsmen,

toolmakers, and machinists. While virtually every section has been carefully reviewed and updated to one degree or another, the following

Nearly 100 pages longer overall than prior editions.

Complete text searches to locate information quickly and easily.

- Interlinks to connect to related topics, including a live index.
- Prints correctly on virtually any printing device.
- Text and graphics displayed exactly as created.
- Zoom features for detailed viewing.
- Cut and paste capabilities for inserting text and graphics into other documents and programs.

Minimum System Requirements: 486 PC, Win 95/98/ME/NT/2000/XP, 10MB RAM Win95/98, 16 MB RAM WinNT, 10MB HD CD-ROM drive, VGA

#### TABLE OF CONTENTS - HANDBOOK & CD-ROM:

Mathematics • Mechanics • Strength of Materials • Properties, Treatment and Testing of Materials • Plastics • Dimensioning, Gaging, and Measuring . Tooling & Toolmaking . Machining Operations . Manufacturing Processes • Fasteners • Threads & Threading • Gears, Splines, and Cams Bearings & Other Machines Elements
 Measuring Units
 Index

> CD-ROM Order No. 6950000

**Price** 

Order No. 6950003 Price:

coordinate systems and interpolations.

"Toolbox" Edition (5" x 7")

Order No. 6950001

are the most notable improvements.

easier and faster.

on grinding.

## **CNC PROGRAMMING HANDBOOK,** THIRD EDITION

600 pages

This best-selling book has become the de facto standard for training and reference material at all levels of CNC programming. Used in hundreds of educational institutions around the world as the primary text for CNC courses, and used daily by many in-field CNC programmers and machine operators, this book literally defines CNC programming. This extraordinarily comprehensive work is packed with over one thousand illustrations, tables, formulas, tips, shortcuts, and practical examples.

The enclosed CD-ROM also offers many training exercises based on individual chapters, along with solutions and detailed explanations. Special programming and machining examples are provided as well, in form of complete machine files, useful as actual programming resources. Virtually all files use Adobe PDF format and are set to high resolution printing.

• Fully functional shareware version of CNC toolpath simulator/editor, NCPlot(TM), included on the CD-ROM. This powerful software includes an amazing array of features, including those not found in competitive products. Support for many advanced features is standard, and the included macro interpreter can simulate Fanuc and compatible macro toolpath programs • Detailed section on CNC lathes with live tooling, including examples • Image files of many actual parts, used as examples • More programming examples (both in printed text and on the CD-ROM) • Optimized for the latest Fanuc and related control systems • Additional formulas, calculations and handy reference material • Fourth axis programming (indexing and rotary) • CD-ROM based projects, including several as interactive PDF forms • Improved index for better search of topics

> Order No. 6953136 **Price**

#### **MACHINERY'S HANDBOOK GUIDE 28TH EDITION**

'Larger Print" Edition (7" x 10")

277 pages

Completely updated to reflect the changes and additions made to the Handbook. Throughout the Guide, you will find useful information on how to make full use of the Handbook to solve problems encountered on the job. In addition to offering a wealth of timesaving data that can help in almost any situation, it includes over 500 examples and questions (with answers) specially selected for engineers and apprentices.

**Price** 

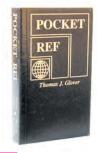
Order No. 6950100 Price:

#### **POCKET REF**

Compiled by Thomas J. Glover over 10 years

Pocket Ref contains an amazing amount of information on an amazing number of topics, including tables, maps, formulas, constants, & conversions. Find helpful everyday information and information that is difficult to locate anywhere. If you can think up a question, there is a great chance the answer can be found in Pocket Ref!









#### **INDEXES & STANDS**

SERIES 569:





#### **DRILL INDEXES**

JOBBERS LENGTH SILVER & DEMING-1/2" Shank



	48
alastate erre	
	400

#### **COMBINATION INDEXES**



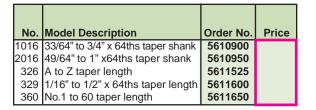
Model No.	Description	Order No.	Price
313	1/16" to 1/4" x 64ths (single panel)	5612750	
15 20 21 26 29 60 80 10001	1 . 3	5610350 5610400 5610450 5610500 5610550 5610600 5610700 5610001	
88SD	Jobbers length  9/16" to 1" by 16ths Silver Deming 15 Silver Deming 1/2" to 23/32" by 64ths 10 Silver Deming 47/64" to 7/8" by 64ths 8 Silver Deming 33/64" to 23/32" by 64ths		
1316	1/64" to 1/4" x 64ths Jobbers lengths	5610800	
119	Maintenance Index holds: 1/16", 5/64", 3/32", 1/8" #29,#, #25, 5/32", #21,3/16", 7#, 7/32", 1/4" #F, 5/16, #U, 3/8", 27/64", 7/16", 1/2"	5610875	
2100	1/16" to 1/4" x 64ths and 9/32"	5612300	

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IV		

Order No.	Description	Model No.	Price
4011 4013 4019 4025 4041 4050	1 to 6mm by 0.5mm 1 to 7mm by 0.5mm 1 to 10mm by 0.5mm 1 to 13mm by 0.5mm 6 to 10mm by 0.1mm 1 to 5.9mm by 0.1mm	5611000 5611050 5611100 5611150 5611200 5611250	
	Holds 118 drills from 1.0mm to 13.0mm	5611825	
12765	Holds 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5	5612765	

<b>TAPER</b>	SHANK AND
<b>TAPER</b>	<b>LENGTH DRILL</b>
<b>INDEXI</b>	ES

to 1/2" x 32nds Jobber length



Model No.	Description	Order No.	Price
	Holds 115 drills, same as #60, #26, #29, in one case	5611700	
	Holds 135 drills, same as #20 #60, #26, #29, in one case	5611750	
	Holds 134 drills, same as #20, #60, #29, #4025 in one case	5611800	
118	Holds 118 drills, from 1.0mm to 13mm	5611825	

#### **STUB SCREW MACHINE DRILL INDEXES**



Model No.	Description	Order No.	Price
2021 2025 2026 2029 2060	1/16" to 1/4" x 64ths 1/16" to 3/8" x 64ths 1 to 13mm by 0.5mm A to Z 1/16" to 1/2" x 64ths No. 1 to 60 Holds 115 drills: 1/16 to 1/2 x 64th, No. 1-60, A-Z	5611300 5611350 5611375 5611400 5611450 5611500 5611550	

#### **DRILL STANDS AND BURR STAND**



Model No.	Description	Order No.	Price
826 829	A to Z inc. 1/16" to 1/2" x 64ths	5611850 5611900	
833	For jobbers & stub or screw machine length from 1/2" to 1" by 64ths	5611975	
833SD	For Silver Deming drills from 1/2" to 1" by 64ths	5611985	
824	Holds 24 1/4" shank burrs	5611875	

# ACHINE SHOP DISCOUNT SUPPLY







# INDEXES, STANDS & GAGES SERIES 569:





#### **TAP/ DRILL INDEXES**



Model No.	Description	Order No.	Price
99	Holds 9 drills and 9 taps - NC 6-32, #36 to 1/2"-13, 27/64"	5612600	
18	Holds 9 drills and 9 taps - NF 6-40, #33 to 1/2"-20, 29/64"	5612650	
4099	Holds 9 drills and 9 taps- METRIC 2.5mm x 0.45 tap, 2.05 drill to 12.0mm x 1.75 tap 10.20mm drill	5612675	
36	Holds 18 drills & 18 taps both models 18 & 99 in one case	5612700	

#### **REAMER INDEXES**



Model No.	Description	Order No.	Price
126 129 160	A to Z inc. 1/16" to 1/2" x64ths No. 1 to 60 inc.	5612000 5612050 5612200	
14	14 Over and Under reamers .124126 to .499501 by 16ths	5612100	
	14 Dowel pin reamers .123 to .4995 Metric 1.00mm to 13.00mm by 0.5mm	5612125 5612130	

#### **TAP INDEXES**



Model No.	Description	Order No.	Price
19	10 taps 0-80 to 12-28 & 9 taps 1-64 to 12-24, 19 total	5612550	
10	5 taps 1/4-20 to 1/2-13 & 5 taps 1/4-28 to 1/2-20, 10 total	5612575	
12590	10 taps 4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 1/2-13, 5/8-11	5612590	

#### **DRILL GAGES**

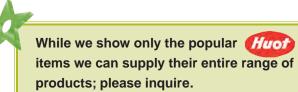


Model No.	Description	Order No.	Price
9092	1/16" to 1/2" x 64ths	5612250	
12260	1 to 60 wire gauge	5612260	
12280	1/2" to 1" x 64ths	5612280	

#### **SCREW EXTRACTOR INDEX**



Model No.	Description	Order No.	Price
55	Holds #1 to #5 screw extractor with matching drill bits	5610200	



#### **NEEDLE FILE INDEX**



Model No.	Description	Order No.	Price
10010	Holds 12 assorted needle files for quick selection	5610010	

#### **TAP & DRILL STANDS**



Easy access to proper Body Drill, Tap Drill, and Tap.





Metric

Description	Order No.	Price
English (65 Holes for #2 to 1/2") Metric (45 Holes for 2-14mm)	6000032 6000033	





#### **DISPENSERS & TOOL BOX**

SERIES 569:



#### **DRILL DISPENSERS**



Model No.	Description	Wt.	Order No.	Price
1 2 3 4 5 84	For 1/16" to 1/2" X 64ths drills For No. 1 to 60 drills For A to Z drills For metric 1mm to 13 mm by 0.5mm For metric 1mm to 6.9 by 0.1 mm For #1 to 80 drills 84 compartments	13 lbs	5613075	
13175 13180	For 1/16" to 1/2" x 64ths drills; A to Z, 1 to 60 drills Metric .35 to 2.5mm x .05, 2.6mm to 10mm x .1 common sizes to 13mm	43 lbs 43 lbs	5613175 5613180	

#### **REAMER DISPENSERS**



Model No.	Description	Wt	Order No.	Price
196	Fractional reamers 1/8" to 1/2", Over/ Under Reamers from .1240 to .5010, Dowel pin reamers from .1230 to .4995	38 lbs	5613400	
13410	1/16 to 1/2 reamers 4 drawer cabinet	12 lbs	5613410	
13415 13420 13430			5613415 5613420 5613430	
13450	Fractional reamers 1/16" to 1/2", Over/ Under Reamers from .1240 to .5010, Dowel pin reamers from .1230 to .4995, Metric reamers 1.0mm to 13.0mm x .5	46 lbs	5613450	

#### **TAP DISPENSERS**



Model No.	Description	Wt.	Order No.	Price
13500 13550 13575 13580	For taps1/4-20 thru 1"-14 For taps 2-56 thru 12-28 For metric taps 3mm to 24mm Holds 1/4-20 to 1"-14 taper, plug, bottoming & 2-56 to 12-28 taper, plug, bottoming & spiral	10 lbs 13 lbs 10 lbs 50 lbs	5613500 5613550 5613575 5613580	
13585	Holds popular NC and NF taps from 1/4 " to 1-1/2", machine screw sizes 2-56 thru 12-28 and metric 2.5mm to 30mm	50 lbs	5613585	

#### **END MILL DISPENSERS**



Model No.	Description	Wt	Order No.	Price
13300	2 Flute single and double end mills 1/16 to 1"	37 lbs	5613300	
13325	4 Flute single and double end mills 1/16 to 1"	37 lbs	5613325	
13350	1/8" to 1" end mills	10 lbs	5613350	
13375	Metric end mills in a 3 drawer Master cabinet 2.0 to 25.0	38 lbs	5613375	

#### **TAP/ DRILL DISPENSER**



Model No.	Description	Weight	Order No.	Price
	For taps and drills from 6-32 #36 to 1/2"-20 29/64"	10 lbs	5613590	

# **TOOL BOX - HEAVY DUTY** SERIES 451:



Spacious storage compartment and four smooth-gliding cantilever trays. Made of 0.8mm heavy gauge steel. Sturdy construction. Blue baked enamel durable finish. Complete with two padlock eyes on cover for attachment of lock; two heavy easy-grip round handles extending over full length of box.



Size (L x W x h)	Weight	Order No.	Price	
16-3/4 x 8 x 8	11 lbs.	2525000*		
*LIMITED QUANTITY				

# MACHINE SHOP DISCOUNT SUPPLY



# TOOL STORAGE - SHOP SERIES & WORKBENCHES Kennedy

SERIES 451:
\*Please specify color when ordering.

#### **Model 520**

#### 7 Drawer Machinist's Chest

- Drawers and top till wool felt-lined
- Vinyl cushioned, steel core top handle
- Six drawer dividers
- 20-1/8 W x 8-9/16 D x 13 5/8"H
- Brown wrinkle finish
- 35 lbs.



Order	No.	8410520
Price		

#### Model 52611

#### 11 Drawer Machinist's Chest

- Drop front panel adds security
- Heavy Duty plated side handles
- Eight drawer dividers and wool felt-lined drawers and top till
- 26-11/16" W x 8-9/16" D x 13 5/8"H
- Brown wrinkle finish
- 56 lbs.



Order No.	4152611
Price	

#### Model 266

#### 6 Drawer Mechanist's Chest

- Full length staked chest hinges are securely welded.
- · Partitioned top till holds lift-out tray
- Drawers lock when the lid is closed by internal drawer locking system.
- 26-1/8" W x 12-1/16" D x 14-3/4" H
- Brown wrinkle or smooth red finish\*
- 58 lbs.

Order No.	8410266
Price	

#### **Model 10491**

# 11 Drawer Pro-Line Maintenance Cart With Side Compartment

- Heavy, welded-steel construction
- Huge 39" x 18" MDF work surface
- Side compartment has adjustable MDF shelf and locking door
- Ball-bearing drawer slides
- Includes tubular side handle, aluminum drawer pulls, two keyed alike tubular locks and 5 x 2" roller bearing casters
- 39"-3/8" W x 18" D x 35" H
- High-gloss black powder finish
- 205 lbs.





Order No.	4110491
Price	

#### Model 277 (Bottom)





#### 7 Drawer Roller Chest

- Tamper proof internal drawer locking system...Fully lockable
- Comes with 5 x 1-1/4" casters
- 27" W x 18" D x 35" H
- Brown wrinkle or smooth red finish\*
- 138 lbs.

#### Order No. 8410277 Price

#### **Model 1018**

#### **Cantilever Tool Box**

- Moveable/removable partitions and divider sets in two trays
- Steel core, vinvl
- 18-1/8" L x 10-1/16 W x 12-5/8"H
- Brown wrinkle finish with tan enamel trays
- 19.5 lbs.



Order No. 8411018
Price

#### Model 297 or Model 297X

#### 7 Drawer Roller Cabinet

- Tamper proof internal drawer locking system. Fully lockable.
- Comes with 5 x 2" casters
- 29" W x 20" D x 35" H
- Brown wrinkle or smooth red finish\*



Model No.	Weight	Order No.	Price
297	158 lbs.	8410297	
297X	165 lbs.	8412971	

- Model 297 comes with friction slides
- Model 297X comes with ball-bearing slides on all drawers

#### Model K20

#### Professional Flat Top Tool Box/20"

- Heavy duty, heavily plated hardware plus rolled and flattened body and lid edges for added strength
- Vinyl cushioned steel core top handle
- Lift-out tray
- 20-1/8" L x 8-5/8 W x 9-3/4 "H
- Brown wrinkle finish with tan enamel tray
- 14 lbs.



Order No.	8410020
Price	

While we show the most popular Rennedy items, we can supply their entire range of products; please inquire.



#### **MAINTENANCE PRODUCTS**

SERIES 906:



#### **PRO-FLEX™ SWEEPS**

Strongest sweep on the market, easiest to assemble AND unbreakable!



Block Size	Trim Length	Fill Material	Order No.	Price
24"	3"	Grey Polystyrene Border	44600	
		with Stiff Black Poly Center		
24"	4"	Palmyra	44601	
24"	3-1/4"	Medium Maroon Poly	44604	
24"	3-1/4"	Stiff Blue Poly	44606	

Includes comfort grip handle and scraper

#### **FINE SWEEPING**

Lacquered hardwood block. Two threaded handle holes. For sweeping smooth surfaces, tile, wood, linoleum and smooth concrete.

Block Size	Trim Length	Fill Material	Order No.	Price
24"	3"	Black Horsehair	42002	
24"	3"	Silver Poly	942042	
36"	3"	Silver Poly	42098	

Handles Sold Separately

#### **COARSE SWEEPING**

Non-absorbent - oil resistant wash easily. Wet or dry sweeping.

Lacquered hardwood block. Two threaded handle holes.

Block Size	Trim Length	Fill Material	Order No.	Price
18"	3"	Black Tampico	42134	
24"	3"	with Wire Ctr.	42135	

Handles Sold Separately

#### PERMA SWEEP™

Tough synthetic block will not split, crack, or warp. The synthetic

fill is chemical and solvent resistant. Wet or dry application.

Block Size	Trim Length	Color	Use	Order No.	Price
24"	3"	Green	Fine	42164	
24"	3"	Yellow	Medium	42166	
24"	3"	Maroon	Coarse	42168	

Handles Sold Separately

#### **HANDLES**

Lacquered hardwood. Standard threads.



Length	Dia	Tip	Order No.	Price
60"	15/16"	Threaded Metal	944300	
60"	1-1/8"	Threaded Metal	44435	
72"	15/16"	Threaded Metal	944302	
60"	15/16"	Threaded Wood	44018	
60"	1-1/8"	Threaded Wood	44019	
60"	1-1/8"	Tapered Wood	44020	
60"	15/16"	Perma-Flex Threaded	44301	
60"	1"	Tapered/Threaded Plastic	44561	

#### **HEAVY-DUTY STEEL** BRACE

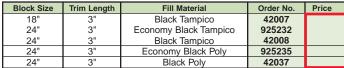


Description	Order No.	Price
Attaches to block with screws and wraps around handle.	44290	
Fits all handle sizes.		

#### **MEDIUM SWEEPING**

Oil resistant. Lacquered hardwood block. Two threaded handle holes. For

sweeping semi-rough floors, wood, concrete or brick.



#### **GARAGE BRUSHES**

For wet or dry sweeping on rough concrete or wood floors. Lacquered hardwood block. Two threaded handle holes.



Handles Sold Separately

#### STREET BROOM

Wide flared ends for sweeping close to curbs and walls. Hardwood block. Two tapered handle holes.



Block Size	Trim	Fill Material	Order No.	Price
14"	4"	White Poly.	70210	
Handles Sold Sepa	arately			

#### **ANGLE BROOM**



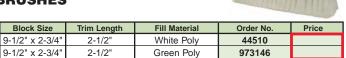
Trim Length	Fill Material	Order No.	Price
7-1/2"-6"	Flagged Plastic	944305	

#### **COUNTER DUSTERS -HARDWOOD Blocks**



Brush Length	Trim Length	Fill Material	Order No.	Price
8"	2-1/4"	Horsehair	44003	
8"	2-1/2"	Black Poly	925252	

#### **VEHICLE WASH BRUSHES**



Handles Sold Separately

#### **Utility Scrub Brush -**Hardwood Block



Length	Trim Length	Fill Material	Order No.	Price
20"	2"	White Tampico	44017	

#### **MASONRY BRUSH**

Hardwood Block - Handle Attached



Block Size	Trim Length	Fill Material	Order No.	Price
6-1/2"	3-1/2"	White Tampico	44031	