

ALL METAL ... ALL THE TIME

Industrial Metalworking Tooling & Solutions Since 1965



FEATURES:

- Table Slot Width: 5/8"
- · Stop rod stays parallel to
- the milling machine table
 Large 1/2"-13 bolt used to rigidly attach lever arm to base.
- · Versatile design rod to be quickly and accurately positioned.
- Lever arm can be rotated for cutter clearance and accurately relocated for repeat setup. (loosening & retiphening of screw is required)
 Base of unit is keyed to T-slot in table.
 Non-marring 1/4"-20 nylon tip set screw.
 Non-marring 1/4"-20 flat point set screw.

Part No. 1-811-16000 Reg. Net Price \$59.99





Hand Chamfering & Deburring Tool

Easily chamfer edges consistently with repeatable accuracy up to almost 1mm deep. Bearing runs along edge of surface while 2 carbide inserts chamfer edge for smooth result.

SPECIFICATIONS:

.. 1/4" NPT Air Inlet1/4" NPT Chamfering Capacity 0.004-0.060" (0.1-1.5mm) Working Capacity 1.004-0.035" (0.1-0.99mm)



Part No. 1-829-1305

iGAGING 6" Dial

Supplied in a protective case.

Part No. 1-815-006 Reg. Net Price \$39.52

FEATURES:

- Graduation: 0.001".
- · Hardened stainless steel frame and covered rack.
- 4-way measurement: Outside, inside, step, & depth.

SHOPLININ

32 oz. Dead **Blow Hammer**

Comfortable, textured handles for handling ease.

Part No. 1-909-63032 Reg. Net Price \$19.22



SDECIEIC ATIONS

OI LOII IOATIONO.	
Head Weight	32 oz.
Length	. 13.9"
Face Diameter	2-1/8"

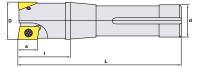
1 / /5/5 **End Mills**

Weldon Shank

FEATURES:

- 90° multi-purpose end mill for low HP machines.
- Rigid, chatterless performance on CNC and conventional milling machines.
- R-8 drawbar thread: 7/16" 20.







Cutting Dia. (D)	OAL (L)	Cutting Length (I)	Shank Dia. (d)	Cutting Depth (a)	No. of Inserts	Insert Used	Part No. 6-941-	Reg. Net Price	SALE!
1"	5.5"	3.15"	1"	.433"	3	APXT 1035	-006	\$163.13	\$130.50
1	4.528	1.378	1	.570	2	APXT 1604	-010	131.10	104.88

© KORLOY® APXT Coated Carbide Inserts

85° APXT Parallelogram 11° Positive Rake

GRADE PC-5300:

For milling of steel.
Tough sub-micron substrate. Has low coefficient of frictions to prevent built-up edge.

Insert Style	L	d	Т	r	d1	Part No. 6-APX-	Reg. Net Price	SALE!
APXT 1035PDSR-MM	0.407"	0.263"	0.12"	0.020"	0.112"	-200	\$13.92	\$11.14
APXT 1604PDSR-MM	0.650	0.376	0.227	0.031	0.175	-210	17.23	13.78

85



BAXTER INC.

General Purpose VERTICUT Gravity Feed **Vertical Bandsaws**

3/4 HP, 115V, 1 PH Motor

Includes

ADJUSTABLE MATERIAL LENGTH STOP QVALUE! While Supplies Last.

Use as a cut-off saw, rip cut, notch blocks, or contour cut as a tool room saw.

Capacity: 13"(h) x 9"(w) Blade Size: 120" x 1/4" x 3/4"

Model 115C Part No. 6-600-115C

Model 115C-VS Variable Speed with End of Cut Shut-off Part No.

6-600-115C-VS

AS LOW AS \$137,29/mo.

Click here for complete details.





KBCTools.com

M-F 8am - 8pm, EST 1-800-521-1740

FAX ORDERS 24/7 1-800-322-4292

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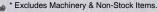
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100% SATISFACTION GUARANTEED

If you are not 100% satisfied for any reason just return the unused item(s) in its original packaging within 30 days, with your receipt for a replacement, exchange, full credit or refund.

Orders over \$349.00 (50 lbs. weight limit per order) SHIPPED FREE - via our standard shipping method. Some restrictions may apply.

99% of All Orders Ship the Same Day.. Or you can Pick Up at your Local Branch.* Your Choice.



DAMAGED, LOST, OR SHORT SHIPMENTS: It doesn't happen often, but if it does, call your local courier office immediately, and advise KBC so that we can reship and place a claim. Please keep damaged goods and containers until the claim is closed.

TRUCK SHIPMENTS:

KBC is not responsible for merchandise damaged or lost by motor freight carriers. If the shipment is damaged or short one or more packages, please have it noted by the truck driver on receipt and freight bill. If you accept a short or damaged shipment from the truck driver without proper notation by the driver, you do so at your own risk.

KBC Tools & Machinery traditionally holds prices for the duration of its sales flyers. As industrial market conditions continue to change across North America (tariffs, raw material, and price increases), KBC reserves the right to change prices based upon inventory conditions and supplier price increases without notice. BUY NOW! KBC Tools & Machinery strives to be your choice for all your tooling needs.

MINIMUM ORDER:

Only \$25.00, to cover processing costs.

Errors do occur, so mistakes are subject to correction. Sorry for any inconvenience.

GSA Contract #BPA-GS-06F-4KBCT

4 Pc. SpeedTaps™ Sets

FRACTIONAL: 1/4"-20, 5/16"-18, 3/8"-16, 1/2"-13 Part No. 1-341-080 Reg. NetPrice \$83.59

METRIC: M6x1, M8x1.25, M10x1.5, M12x1.75

Part No. 1-341-105 Reg. NetPrice \$83.59



ALL METAL ... ALL THE TIME

Industrial Metalworking Tooling & Solutions Since 1965

Metric Spiral Pointed Hand Taps



GROUND THREAD RIGHT HAND

LIST NO. 102M HIGH SPEED STEEL PLUG STYLE

Commonly known as "gun taps". Flute design forces the evacuation of chips ahead of the cutting action.

Size	Pitch Dia. Limit	No. of Flutes	Part No. 102M-	Reg. Net Price	SALE!
M2.5X0.45	D3	2222	-62814	\$15.13	\$13.62
M3X0.5	D3		-62818	12.49	11.24
M4X0.7	D4		-62826	10.27	9.24
M5X0.8	D4		-62834	10.27	9.24
M6X1	D5	2233	-62838	10.97	9.87
M8X1.25	D5		-62850	12.25	11.03
M10X1.5	D6		-62854	22.51	20.26
M12X1.75	D6		-62858	28.03	25.23

Remove

broken taps and save

the threads!

WALTON Tap Extractor Set

Remove broken machine screw and hand taps, pipe taps, and STI taps.

Remove broken taps without drilling, lasers, damaged threads, scrapping parts or repair inserts. The hardened steel fingers fit in the flutes of a broken tap to back it out simply and safely. This effective method has been used since 1908.

SIZES: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" Part No. 1-391-800

Reg. Net Price \$140.70

Supplied in a plastic compartment box.



For High Strength Steels

DORMER SHARK LINE

Black Shark Spiral Pointed Taps

RIGHT HAND PLUG STYLE

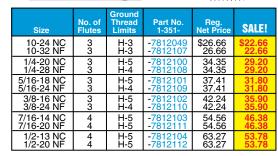
Designed for high performance through hole tapping in high strength and heat resistant work materials with hardness up to 45HRC.

FEATURES:

- The color ring on the tool shank identifies suitability for specific materials and enables quick and easy tool selection.
- When using Black Shark taps, it is recommended to use synchronized (rigid) tapping.

SURFACE TREATMENT - TIAIN-Top coating combined with geometry that significantly increases cutting edge strength, provides excellent performance and consistency in hard and difficult to machine materials.

MATERIAL - Shark taps are manufactured from a unique powder metallurgy tool steel different from any other HSS-E-PM. This provides an unbeatable combination of toughness and edge strength, allowing the taps to perform at higher cutting temperatures while offering excellent performance and longer tool life.



GEOMETRY AND CHAMFER - Spiral point geometries with low rake angle for good chip control and edge strength. Features a spiral point that supports:

TAP THREADS UP TO 14X

- Process security.Superior surface finish.
- · Highly accurate threads
- Through hole threading up to 2.5xD.

SPEEDTAPS TARS THAN THE PROS

HIGH SPEED STEEL RIGHT HAND

Hand tapping is a slow and tedious process that has remained unchanged for years. The SpeedTaps™ drive end is designed to match bolt sizing and utilize all the advantages of common sockets and wrenches.

FEATURES:

- 6 thread taper for faster starts.
- 60° tapered point for easy alignment.
 Highly durable and designed for use with an impact wrench, allowing threads to be tapped up to 14x faster than traditional methods.
 Full-size shaft maximizes strength as well as ease of reversal of the tap.
 Flared head design reduces tangential force maximizing torque transfer.

- Each tap head size matches the bolt size for single tool operation of tapping and bolting.
 Increase productivity these taps work faster and last longer than traditional hand taps.
 Over 100 holes were tested on Mild Steel keeping keeping the same quality of thread.
- SpeedTaps™ easily out perform in tight spaces that are too close for working with traditional tap wrenches giving the user an advantage over old technology.
 Made from M2 Tool Steel with a Nitrate coating for extended tap life.

FRACTIONAL SIZES

Thread Size	Part No. 1-341-	Reg. Net Price	SALE!
1/4-20 NC	-060	\$15.67	\$11.75
5/16-18 NC	-065	18.80	14.10
3/8-16 NC	-070	20.89	15.67
1/2-13 NC	-075	26.12	19.59

METRIC SIZES

Thread Size	Part No. 1-341-	Reg. Net Price	SALE!
6 x 1.0 8 x 1.25 10 x 1.50 12 x 1.75	-085 -090 -095 -100	\$15.67 18.80 20.89 26.12	\$11.75 14.10 15.67 19.59





10 Pc. Solid Carbide Miniature Bur Set

Standard Cut



FEATURES:

- Head Diameter: 1/8'
- Shank Diameter: 1/8"
- Overall Length: 1-1/2"





No. 10 Standard Keyway **Broach Set**

1/8" to 3/8"

COLLARED BUSHINGS ONLY

Part No. 1-409-11104 Reg. Net Price \$623.05



HIGH SPEED STEEL

Keyway Sizes	Broach Style	Bushing Dia. (Hole Size)
1/8" 3/16	B B	1/2", 5/8", 3/4", 7/8"
1/4 3/8	ပပ	1", 1-1/8", 1-1/4", 1-3/8", 1-1/2"

LANG

40 Pc. SAE & Metric Thread Restorer Kit

Highly tempered for strength and durability, the hex shape allows for use with a socket or wrench.

KIT INCLUDES:

8.125" x 11.5" x 2.5"



Part No. 1-820-344 Reg. Net Price \$118.71

• (7) SAE Coarse Dies, Sizes: 1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13, 9/16"-12, 5/8"-11 • (7) SAE Fine Dies, Sizes: 1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 9/16"-18, 5/8"-18 • (6) Metric Dies, Sizes:

• (7) SAE Coarse Dies, Sizes:

M6-1.00, M8-1.25, M10-1.50, M12-1.25, M12-1.50, M12-1.75

• (1) SAE Rethread File, 8 pitches (threads/inch): 11, 12, 13, 14, 16, 18, 20, 24,

• (1) Metric Rethread File, 8 pitches (mm/thread): 0.75mm, 1.00mm, 1.25mm, 1.50mm, 2.50mm, 2.50mm, 3.00mm.

8 Pc. Adjustable **Hand Reamer Set**

HIGH SPEED STEEL

FEATURES:

 Reamers are used for light cut, repair work, removing stock, or for enlarging holes.

 Each reamer adjusts from a smaller size to a larger size.

 Can be hand operated by use of wrenches.

15/32" to 1-1/16" Part No. 1-135-800 Reg. Net Price \$151.87



Supplied in a fitted wood case.

Storrett Carbide Tipped Hole Saws

High Performance Triple Chip Tungsten Carbide Tipped Saws Ultra-high hardness provides long life when cutting difficult and abrasive materials including wood, PVC and fiberglass.

Starrett	Saw Dia	ameter	Part No.	Reg.		
No.	Inch	mm	1-856-	Net Price	SALE!	
CT034 CT078	3/4" 7/8	19 22	-65614 -65615	\$20.98 21.19	\$18.88 19.07	
CT100 CT118 CT114 CT138 CT112 CT158 CT134 CT178	1 1-1/8 1-1/4 1-3/8 1-1/2 1-5/8 1-3/4 1-7/8	25 29 35 35 41 44 48	-65616 -65617 -65618 -65619 -65620 -65621 -65622 -65623	22.60 23.92 24.93 25.35 25.94 27.49 28.81 30.01	20.34 21.53 22.44 22.82 23.35 24.74 25.93 27.01	F •
CT200 CT218 CT214 CT238 CT212 CT258 CT234	2 2-1/8 2-1/4 2-3/8 2-1/2 2-5/8 2-3/4	51 54 57 60 64 67 70	-65624 -65625 -65626 -65627 -65628 -65629 -65630	30.91 36.39 37.63 38.85 40.66 41.98 43.24	27.82 32.75 33.87 34.97 36.59 37.78 38.92	•
CT300	3	76	-65631	45.80	41.22	•

aluminum, copper, stainless steels, high temperature alloys, thermo-plastics and composites used in the aircraft industry.



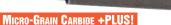
FEATURES:

- A cost effective solution for cutting nail embedded wood. wood and metal combination, reinforced concrete and fiberglass.
- Leaves high quality surface finish on entry and exit and provides a smooth cut.
- Tungsten carbide tipped teeth for outstanding cutting performance and product durability.
- Suitable for use in electric
- and battery operated tools. Cutting Depth: 1-5/8" (41mm).

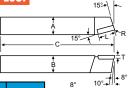
MICRO 100°

Carbide Toolbits

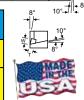
Styles AR & AL



MICRO 100 is a space age, micro grain carbide of excellent quality. It is in a class of it's own, resulting from the exclusive treating process. Considerably prolongs tool life in machining all hard stainless steels, efficiently performs in exotic metals. Provides vastly increased speed and feed rates in cutting



		Dim	ensions			Part No.	. 1-428-		
Sh	ank		Ti	р		Right	Left	Reg.	
A-B	С	T	W	Г	R	Hand	Hand	Net Price	SALE!
1/4" 5/16 3/8	2" 2-1/4 2-1/2	1/16" 1/16 1/8	3/16" 1/4 1/4	1/4" 5/16 1/2	1/64" 1/64 1/64	-AR4 -AR5 -AR6	-AL4 -AL5 -AL6	\$12.54 12.27 13.09	\$11.29 11.04 11.78
7/16 1/2 5/8 3/4	3 3-1/2 4 4-1/2	1/8 1/8 5/32 3/16	1/4 1/4 3/8 7/16	1/2 5/8 3/4 13/16	1/32 1/32 1/32 1/32	-AR7 -AR8 -AR10 -AR12	-AL7 -AL8 -AL10 -AL12	14.80 15.29 23.00 32.10	13.32 13.76 20.70 28.89





Metric Chucking Reamers

STRAIGHT FLUTE STRAIGHT SHANK **HIGH SPEED STEEL**

DIAMETER TOLERANCES:

+.0002"/-.0000"

Designed for use in turret lathes, screw machines, drill presses and all types of machine tool equipment. Ground with a 45° chamfer.

Size MM	Flute Length	OAL	Part No. 1-136A-	Reg. Net Price	SALE!
12345	1/2" 3/4 7/8 1 1-1/4	2-1/2" 3 3-1/2 4 5	-20012 -20031 -20050 -20069 -20090	\$20.31 19.24 20.52 22.49 26.68	\$17.26 16.35 17.44 19.12 22.68
67890 10	1-1/2 1-1/2 1-1/2 1-3/4 1-3/4	6 6 7 7	-20104 -20119 -20133 -20142 -20155	29.50 30.57 30.78 36.12 37.49	25.08 25.98 26.16 30.70 31.87
11 12 13 14 15 16	1-3/4 2 2 2 2 2-1/4	7 8 8 8 8 9	-20162 -20171 -20179 -20182 -20185 -20189	38.13 42.41 48.65 53.78 56.17 76.18	32.41 36.05 41.35 45.71 47.74 64.75

🗾 ROCK RIVER TOOL, INC.

Carbide Tipped Chucking Reamers

FEATURES:

Straight shank and straight polished flutes.

Carbide tips brazed to one-piece hardened tool steel bodies.

 For all general reaming of steel, cast iron, non-ferrous metals, plastics and non-metals

STANDARD TOLERANCES:

Fractional +.0003"/-.0000"

FRACTIONAL SIZES

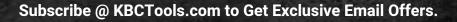
Dia.	Flute Length	OAL	Part No. 5-655A-	Reg. Net Price	NOW!
3/16"	1-1/8"	4-1/2"	-012	\$43.00	\$38.70
1/4	1-1/2	6	-016	43.00	38.70
5/16	1-1/2	6	-020	43.95	39.56
3/8	1-3/4	7	-024	45.45	40.91
7/16	1-3/4	7	-028	51.00	45.90
1/2 9/16 5/8 11/16 3/4	2 2-1/4 2-1/4 2-1/2	8 8 9 9-1/2	-032 -036 -040 -044 -048	61.45 66.85 69.60 70.85 74.15	55.31 60.17 62.64 63.77 66.74
13/16	2-1/2	9-1/2	-052	76.55	68.90
7/8	2-5/8	10	-056	82.65	74.39
15/16	2-5/8	10	-060	96.30	86.67
1	2-3/4	10-1/2	-100	100.85	90.77











CUTTING TOOLS



FEATURES:

Eliminates

More accurate

Better finishing.

and clear holes.



SHORT SERIES - 1" DEPTH

HIGH SPEED STEEL

Size	Part No. 5-530-	Reg. Net Price	NOW!	Size	Part No. 5-530-	Reg. Net Price	NOW!
1/2" 9/16 5/8 11/16 3/4 13/16 7/8	-111 -113 -116 -119 -121 -124 -127	\$34.81 34.81 34.81 34.81 37.06 40.86 41.56	\$31.33 31.33 31.33 31.33 33.35 36.77 37.40	1-5/16" 1-3/8 1-7/16 1-1/2 1-9/16 1-5/8 1-11/16	-148 -151 -154 -157 -160 -163 -166	\$62.89 69.61 76.35 83.09 87.59 89.83 101.06	\$56.60 62.65 68.72 74.78 78.83 80.85 90.95
15/16 1 1-1/16 1-1/8 1-3/16 1-1/4	-130 -133 -136 -139 -142 -145	44.02 46.71 49.41 53.90 56.13 57.26	39.62 42.04 44.47 48.51 50.52 51.53	1-3/4 1-13/16 1-7/8 1-15/16 2	-169 -172 -175 -178 -181	103.32 116.78 116.78 121.27 130.25	92.99 105.10 105.10 109.14 117.23

RICO

82° 6 Flute Chatterless Countersinks





HIGH SPEED STEEL

Body Dia.	Shank	OAL	Part No. 1-160A-	Reg. Net Price	SALE!
3/16"	3/16"	1-1/2"	-81050	\$6.66	\$5.33
1/4	1/4	2	-81051	6.84	5.47
5/16	1/4	2	-81052	8.16	6.53
3/8	1/4	2	-81053	8.52	6.82
1/2	1/4	2	-81054	10.50	8.40
5/8 3/4 7/8	1/2 1/2 1/2 1/2	2-3/4 2-3/4 2-3/4 2-3/4	-81055 -81056 -81057 -81058	14.94 20.52 28.26 31.50	11.95 16.42 22.61 25.20
1-1/4	3/4	3-3/8	-81059	47.94	38.35
1-1/2	3/4	3-1/2	-81060	69.30	55.44
1-3/4	1	4-1/4	-81061	92.40	73.92
2	1	4-3/8	-81062	114.12	91.30

Buy In Package Quantity: Up to 1/2" 3 Per Pack



Uniflute Carbide Countersinks

Series 60



Not recommended for use in hand-held tools.

For use on abrasive, non-metallic and non-ferrous materials.

FEATURES:

Easily resharpened.

 May be used on hardened steel and work hardening alloys

Rigid set-ups & good machinery maintenance are a must.

Body		Shank	Fait NO. 5-100-			Reg.	
Dia.	OAL	Dia.	60°	82°	90°	Net Price	SALE!
1/8"	1-1/2"	1/8"	-60001	-60006	-60011	\$15.28	\$13.75
3/16	1-1/2	3/16	-60021	-60026	-60031	19.10	17.19
1/4	2	1/4	-60041	-60046	-60051	23.09	20.78
3/8	2	1/4	-60061	-60066	-60071	44.92	40.43
1/2	2-3/8	1/4	-60081	-60086	-60091	62.32	56.09
3/4	3	1/2	-60101	-60106	-60111	115.90	104.31
1	3	1/2	-60121	-60126	-60131	189.58	170.62



5 Pc. Combined Drill and Countersink Set

60° RIGHT HAND HIGH SPEED STEEL

Plain type combined drills and countersinks are used for producing center holes in components or workpieces which require machining between centers.

No. 1 through No. 5 Part No. 1-031-200 Reg. Net Price \$37.37









6 Flute **Double End** Countersinks

HIGH SPEED STEEL

Two cutting ends give you twice the tool life of a single end tool.



		60°	82°	90°		
Body Dia.	OAL	Part No. 1-1646H-	Part No. 1-1646H-	Part No. 1-1646H-	Reg. Net Price	NOW!
1/8"	1-1/2"	-60008	-82008	-90008	\$21.33	\$19.20
3/16	2	-60012	-82012	-90012	21.80	19.62
1/4	2	-60016	-82016	-90016	22.65	20.39
5/16	2-1/2	-60020	-82020	-90020	26.26	23.63
3/8	2-1/2	-60024	-82024	-90024	29.20	26.28
1/2	3	-60032	-82032	-90032	36.68	33.01

Solid Carbide Combined Drills & Countersinks

FINE GRAIN 6% COBALT C-2 GRADE 60° INCLUDED ANGLE

Plain type, solid carbide, 60° combined drills and countersinks with straight flutes. Used for producing center holes in components or workpieces which require machining between centers.



Size	Body Dia.	Drill Dia.	Part No. 1-049-	Reg. Net Price	SALE!
1	1/8"	3/64"	-001	\$12.75	\$10.84
2	3/16	5/64	-002	13.50	11.48
3	1/4	7/64	-003	15.00	12.75
4	5/16	1/8	-004	24.00	20.40
5	7/16	3/16	-005	42.00	35.70

5 Pc. 3/4" Reduced Shank Drill Set

118° POINT HIGH SPEED STEEL

FEATURES:

Ideal for drilling in low and medium tensile strength materials.

 Precision ground for a high degree of concentricity between shank and body diameter.

Common flute and overall length for minimal adjustment during tool changes.

1" to 1-1/2" by 8ths Part No. 1-059-000 Reg. Net

Price \$219.00



7 Pc. Solid Cap Screw Counterbore Set

3 FLUTE **STRAIGHT** SHANK **HIGH SPEED** STEEL



FEATURES:

- Designed to create a recess for socket head cap screws and shoulder screws
- Solid pilot will not score or damage pilot hole. Cutting action is chatterless.
- Also used for spot facing smaller spots, enlarging, or cleaning holes.

Sizes: 6, 8, 10, 1/4", 5/16", 3/8", 1/2" Part No. 1-166-400

Reg. Net Price \$140.30





ilwaukee SHOCKWAVE Impact Duty™ RED HELIX™ Titanium Drill Bit Sets

FEATURES:

• RED HELIX™ Technology combines QUAD EDGE™ tip, VARIABLE HELIX™ flute, and thicker tapered web.

• QUAD EDGE Tip™ stays sharper longer.

• VARIABLE HELIX™ flute designed for rapid chip removal.

 Thicker tapered web design increases bit strength. Titanium coated for 5x Life vs. black oxide drill bits

1/4" hex shank for use with impact drivers and drill drivers.

· Ideal for metal, wood, and plastics.

• Laser etched size for easy identification





15 Pc. Set Sizes: 1/16" to 3/8" Part No.

1-828-48894670

10 Pc. Metric Set Sizes: 3mm to 10mm

Part No.







Solid Carbide Hi-Roc Drills

135° POINT FINE GRAIN 6% COBALT C-2 GRADE



Designed to drill hardened steel in the 42-65 Rockwell "C" range.

FEATURES:

- Produces chips without generating excessive heat.
- Both a production drill and a salvage or reclaim tool.
- Reamer type finishes are easily produced.
- Accurately sized holes are produced without annealing or softening the workpiece.



Series 200

Size	Dia.	Flute Length	OAL	Part No. 5-100-	Reg. Net Price	SALE!
1/32"	.0312"	3/16"	1-1/2"	-20004	\$19.93	\$16.94
3/64	.0469	1/4	1-1/2	-20067	17.56	14.93
1/16	.0625	5/16	1-1/2	-20100	17.56	14.93
5/64	.0781	3/8	1-1/2	-20130	17.56	14.93
3/32	.0938	1/2	1-1/2	-20163	17.56	14.93
7/64	.1094	5/8	1-1/2	-20199	20.62	17.53
1/8	.1250	5/8	1-1/2	-20229	21.19	18.01
9/64	.1406	5/8	2	-20253	22.72	19.31
5/32	.1562	5/8	2	-20283	26.49	22.52
11/64	.1719	5/8	2	-20313	28.29	24.05
3/16 13/64 7/32 15/64 1/4 17/64	.1875 .2031 .2187 .2344 .2500 .2656	5/8 3/4 3/4 3/4 3/4 3/4	2 2 2 2 2-1/2	-20340 -20376 -20403 -20427 -20451 -20472	30.67 32.78 34.45 35.82 42.81 46.28	26.07 27.86 29.28 30.45 36.39 39.34
9/32	.2812	3/4	2-1/2	-20499	49.19	41.81
19/64	.2969	3/4	2-1/2	-20520	51.57	43.83
5/16	.3125	3/4	2-1/2	-20541	53.52	45.49
21/64	.3281	1	2-1/2	-20562	60.34	51.29
11/32	.3438	1	2-1/2	-20583	62.59	53.20
23/64	.3594	1 1 1 1 1	2-1/2	-20604	64.68	54.98
3/8	.3750		2-1/2	-20622	66.48	56.51
25/64	.3906		2-3/4	-20643	73.57	62.53
13/32	.4062		2-3/4	-20664	87.12	74.05
27/64	.4219		2-3/4	-20682	98.53	83.75
7/16	.4375	1 1 1 1	2-3/4	-20697	103.55	88.02
29/64	.4531		3	-20712	106.36	90.41
15/32	.4688		3	-20727	107.86	91.68
31/64	.4844		3	-20733	112.75	95.84
1/2	.5000		3	-20739	112.75	95.84



Mechanics Length Drills

HIGH SPEED STEEL

TYPE 250-VT 135° SPLIT POINT 1



- Vortex-Point™ tip design cuts 45% faster and excels at sheet metal and hardened metals.
- Stays sharp up to 4X longer than
- conventional and specialty tip designs.

 Multi-stepped tip acts like a step drill, allowing for laser like holes through sheet metal and prevents walking on curved surfaces.
- 3-flatted shanks to reduce slippage common with keyless chucks.
 Recommended for cast iron, brass, sheet metal,
- plastic, mild steel, copper, and hardened steel.

Size	Flute Length	OAL	Part No. 1-067-	Reg. Net Price	SALE!
5/32"	1-11/16"	2-3/4"	-010	\$6.00	\$4.50
11/64	1-13/16	2-7/8	-011	6.11	4.58
3/16	1-7/8	3	-012	6.82	5.12
13/64	1-15/16	3-1/8	-013	7.14	5.36
7/32	2	3-1/4	-014	7.26	5.45
15/64	2-1/16	3-3/8	-015	7.50	5.63
1/4	2	3-1/2	-016	7.98	5.99
17/64	2-1/8	3-5/8	-017	8.94	6.71
9/32	2-1/4	3-3/4	-018	9.24	6.93
19/64	2-3/8	3-7/8	-019	9.85	7.39
5/16	2-1/2	4	-020	10.14	7.61
21/64	2-9/16	4-1/16	-021	10.58	7.94
11/32	2-5/8	4-1/8	-022	12.40	9.30
23/64	2-11/16	4-3/16	-023	13.31	9.98
3/8	2-11/16	4-1/4	-024	13.76	10.32
25/64	2-3/4	4-5/16	-025	15.13	11.35
13/32	2-13/16	4-3/8	-026	15.50	11.63
27/64	2-7/8	4-7/16	-027	16.70	12.53
7/16	2-15/16	4-1/2	-028	17.24	12.93
29/64	3	4-5/8	-029	18.84	14.13
15/32	3-1/8	4-3/4	-030	19.75	14.81
31/64	3-1/4	4-7/8	-031	20.72	15.54
1/2	3-3/8	5	-032	21.07	15.80

Buy In Package Quantity: Up to 9/32" 6 Per Pack 19/64" to 1/2" 3 Per Pack

PRECISION

Silver & Deming Drills

Expands the size range capacity of a 1/2" portable drill chuck.

CUTTING TOOLS

Ideal for drilling in low and medium tensile strength materials.

1/2" SHANK 118° POINT 6" OVERALL LENGTH HIGH SPFFD STEEL

	Size	Part No. 1-060A-	Reg. Net Price	NOW!	Size	Part No. 1-060A-	Reg. Net Price	NOW!
L	9/16" 5/8 11/16 3/4	-036 -040 -044 -048	\$37.02 41.66 46.20 51.02	\$31.47 35.41 39.27 43.37	1-1/8" 1-3/16 1-1/4 1-5/16	-108 -112 -116 -120	\$107.52 117.60 132.16 161.28	\$91.39 99.96 112.34 137.09
	7/8 15/16 1 1-1/16	-056 -060 -100 -104	61.60 68.88 80.08 96.32	52.36 58.55 68.07 81.87	1-3/8 1-7/16 1-1/2	-124 -128 -132	186.48 206.08 224.00	158.51 175.17 190.40



CLE-LINE Screw Machine Drills

135° SPLIT POINT RIGHT HAND

BLACK OXIDE SURFACE TREATED

Increases abrasion resistance, reduces the

amount of chip welding and improves the chip flow.



Size	OAL	Part No. 1-050AX-	Reg. Net Price	SALE!	Size	OAL	Part No. 1-050AX-	Reg. Net Price	SALE!
1/16"	1-5/8"	-004	\$1.68	\$1.43	19/64	2-3/4	-019	\$4.46	\$3.79
5/64	1-11/16	-005	1.73	1.47	5/16	2-13/16	-020	4.57	3.88
3/32	1-3/4	-006	1.79	1.52	21/64	2-15/16	-021	5.53	4.70
7/64	1-13/16	-007	1.84	1.56	11/32	3	-022	5.94	5.05
1/8	1-7/8	-008	1.87	1.59	23/64	3-1/16	-023	6.46	5.49
9/64	1-15/16	-009	2.01	1.71	3/8	3-1/8	-024	6.74	5.73
5/32	2-1/16	-010	2.20	1.87	25/64	3-1/4	-025	7.67	6.52
11/64	2-1/8	-011	2.37	2.01	13/32	3-5/16	-026	7.89	6.71
3/16	2-3/16	-012	2.48	2.11	27/64	3-3/8	-027	8.61	7.32
13/64	2-1/4	-013	2.75	2.34	7/16	3-7/16	-028	8.83	7.51
7/32 15/64 1/4 17/64 9/32	2-3/8 2-7/16 2-1/8 2-5/8 2-11/16	-014 -015 -016 -017 -018	3.00 3.11 3.25 3.88 3.99	2.55 2.64 2.76 3.30 3.39	29/64 15/32 31/64 1/2	3-9/16 3-5/8 3-11/16 3-3/4	-029 -030 -031 -032	10.26 10.95 11.33 11.44	8.72 9.31 9.63 9.72

Buy In Package Quantity: Up to 5/16" 12 Per Pack 21/64" to 1/2" 6 Per Pack

DORMER TIN Coated Jobbers Drills

RIGHT HAND HIGH SPEED STEEL TIN TIPPED 118° POINT

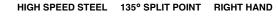
Jobbers length drills are designed to perform in a wide variety of normal conditions. Jobbers length also perform in a broad range of materials in both machine and portable drilling. Superhard **TITANIUM NITRIDE (TIN)** surface treatment improves drill life, chip ejection, and productivity; decreases horsepower requirements.

Size	OAL	Part No. 1-001TA-	Reg. Net Price	SALE!	Size	OAL	Part No. 1-001TA-	Reg. Net Price	SALE!
3/32"	2-1/4"	-006	\$2.30	\$1.96	5/16"	4-1/2"	-020	\$7.26	\$6.17
7/64	2-5/8	-007	2.44	2.07	21/64	4-5/8	-021	8.08	6.87
1/8	2-3/4	-008	2.44	2.07	11/32	4-3/4	-022	8.91	7.57
9/64	2-7/8	-009	2.66	2.26	23/64	4-7/8	-023	10.18	8.65
5/32	3-1/8	-010	2.70	2.30	3/8	5	-024	10.34	8.79
11/64	3-1/4	-011	2.94	2.50	25/64	5-1/8	-025	11.99	10.19
3/16	3-1/2	-012	3.27	2.78	13/32	5-1/4	-026	12.27	10.43
13/64	3-5/8	-013	3.60	3.06	27/64	5-3/8	-027	13.56	11.53
7/32	3-3/4	-014	4.00	3.40	7/16	5-1/2	-028	14.15	12.03
15/64	3-7/8	-015	4.30	3.66	29/64	5-5/8	-029	15.72	13.36
1/4 17/64 9/32 19/64	4 4-1/8 4-1/4 4-3/8	-016 -017 -018 -019	4.58 5.52 5.66 6.58	3.89 4.69 4.81 5.59	15/32 31/64 1/2	5-3/4 5-7/8 6	-030 -031 -032	16.78 17.60 17.63	14.26 14.96 14.99

PRECISION Cobalt Jobbers Drills

For drilling tough, high tensile strength materials

Heat resistant 8% cobalt and heavy-duty flute construction.











Niagara 3 Flute TiCN Coated Cutter Solid Carbide Center **Solid Carbide Center ELITE** Series Cutting Single End Mills

45° HELIX LIST A345 For Aluminum

Advanced geometrics for high performance machining of aluminum.



- FEATURES:
 Extra fine grain carbide.
- · Full form ground flute shape.
- Eccentric primary relief and cylindrical land.
- Ultra high transverse rupture strength.



MICROSHIELD™ TiCN - Titanium Carbonitride:

Incorporation of Carbon into the TiN matrix to increase hardness and abrasion resistance. TiCN is an alternative to TiN for HSS & HSCO applications where additional wear resistance is required. Primary solid carbide applications are milling aluminum alloys and cast iron.

Mill Dia.	Shank Dia.	Length of Cut	OAL	Part No. 5-303C-	Reg. Net Price	NOW!
1/8"	1/8"	1/4"	1-1/2"	-61626	\$24.30	\$20.66
1/8	1/8	3/8	1-1/2	-61627	26.60	22.61
3/16	3/16	5/16	2	-61630	35.70	30.35
3/16	3/16	9/16	2	-61631	48.00	40.80
1/4	1/4	3/8	2-1/2	-61634	45.10	38.34
1/4	1/4	3/4	2-1/2	-61635	50.00	42.50
1/4	1/4	1-1/4	4	-61636	77.90	66.22
5/16	5/16	7/16	2-1/2	-61639	53.40	45.39
5/16	5/16	13/16	2-1/2	-61640	59.20	50.32
5/16	5/16	2-1/4	4	-61642	126.00	107.10
3/8	3/8	1/2	2-1/2	-61645	66.20	56.27
3/8	3/8	1	2-1/2	-61646	73.40	62.39
3/8	3/8	1-1/2	4	-61647	113.00	96.05
7/16	7/16	9/16	2-3/4	-61650	59.86	50.88
7/16	7/16	1	2-3/4	-61651	91.00	77.35
1/2	1/2	5/8	3	-61654	101.00	85.85
1/2	1/2	1-1/4	3	-61655	113.00	96.05
1/2	1/2	2	4	-61656	160.00	136.00
1/2	1/2	3-1/8	6	-61657	278.00	236.30



2 Flute Premium **Solid Carbide End Mills**

MINIATURE - CENTER CUTTING

Size	Flute Length	Part No. 5-100-	Reg. Net Price	SALE!
.005"	.015"	-52101	\$53.92	\$45.83
.010	.030	-52103	38.53	32.75
.015	.045	-52105	22.80	19.38
.020	.060	-52109	22.40	19.04
.025	.075	-52111	22.40	19.04
.030	.090	-52113	22.80	19.38
.035	.105	-52116	17.63	14.99
.040	.120	-52120	17.63	14.99
.045	.135	-52122	17.63	14.99
.050	.150	-52125	17.63	14.99
.055	.165	-52127	17.63	14.99
.060	.180	-52131	15.71	13.35
.065	.195	-52134	13.78	11.71
.070	.210	-52136	14.10	11.99
.075	.225	-52139	14.10	11.99
.080	.240	-52143	14.10	11.99
.085	.255	-52144	14.10	11.99
.090	.270	-52145	14.10	11.99
.100	.300	-52150	14.10	11.99

Series 121

FEATURES:

- 1/8" shank
- diameter.
- 1-1/2" OAL. Micrograin 10% cobalt grade.



Designed for aggressive milling of most materials

2 Flute Uncoated Solid Carbide Single End Mills





Designed for slotting, drilling, pocketing, and general purpose milling.

FEATURES:

- General purpose.
 30° Helix carbide.
- 10% Micro grain carbide.
- Extremely rigid quality control to assure the tightest tolerances and consistency.
- Engineered to the highest quality with the best raw material & coatings for demanding applications.
- High Tech geometries manufactured on the most state of the art 5-axis CNC Grinders in the world.

Mill Dia.	Shank Dia.	Length Of Cut	OAL	Part No. 4-325-	Reg. Net Price	SALE!
1/16"	1/8"	3/16"	1-1/2"	-004	\$5.75	\$4.89
3/32	1/8	3/8	1-1/2	-006	5.75	4.89
1/8	1/8	1/2	1-1/2	-008	5.75	4.89
5/32	3/16	9/16	2	-010	9.65	8.20
3/16	3/16	5/8	2	-012	9.33	7.93
7/32	1/4	5/8	2-1/2	-014	11.28	9.59
1/4	1/4	3/4	2-1/2	-016	10.50	8.93
9/32	3/8	7/8	2-1/2	-018	13.96	11.87
5/16	5/16	7/8	2-1/2	-020	12.90	10.97
3/8	3/8	1	2-1/2	-024	17.50	14.88
7/16	7/16	1	2-1/2	-028	22.78	19.36
1/2	1/2	1	3	-032	27.12	23.05

DIAMETER **TOLERANCES:** +0.0000"/-0.0020"



Buy In Package Quantity: 3 Per Pack

4 Flute Solid Carbide Center Cutting Single End Mills

Metric



Buy In Package Quantity: Up to 6mm 3 Per Pack

₹BO
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Mill Dia.	Shank	Length of	OAL	Part No.	Reg.	SALE!
(mm)	Dia. (mm)	Cut (mm)	(mm)	1-326M-	Net Price	
1	3334	3	38	-001	\$9.94	\$8.45
2		6	38	-002	7.92	6.73
3		12	38	-003	7.65	6.50
4		14	50	-004	10.34	8.79
5	6	16	50	-005	11.62	9.88
6	6	19	63	-006	14.25	12.11
8	8	19	63	-008	18.75	15.94
10	10	22	70	-010	23.76	20.20
12 14 16 18 20	12 14 16 18 20	25 330 336 38	75 88 88 100 100	-012 -014 -016 -018 -020	33.75 55.44 73.92 84.48 101.38	28.69 47.12 62.83 71.81 86.17

2 & 4 Flute **Drill Point End Mills**

90° INCLUDED POINT ANGLE







APPLICATIONS:

• Drilling • Milling • Spotting • Chamfering • Countersinking

					2 Flute			4 Flute	
Size	Shank Dia.	Flute Length	OAL	Part No. 1-325DT-	Reg. Net Price	SALE!	Part No. 1-326DT-	Reg. Net Price	SALE!
1/8"	1/8"	1/2"	1-1/2"	-008	\$14.16	\$12.04	-008	\$14.16	\$12.04
3/16	3/16	5/8	2	-012	18.00	15.30	-012	18.00	15.30
1/4	1/4	3/4	2-1/2	-016	23.47	19.95	-016	23.47	19.95
5/16	5/16	13/16	2-1/2	-020	31.80	27.03	-020	31.80	27.03
3/8	3/8	1	2-1/2	-024	34.51	29.33	-024	34.51	29.33
7/16	7/16	1	2-1/2	-028	54.72	46.51	-028	54.72	46.51
1/2	1/2	1	3	-032	58.80	49.98	-032	58.80	49.98
5/8	5/8	1-1/4	3-1/2	-040	94.80	80.58	-040	94.80	80.58
3/4	3/4	1-1/2	4	-048	141.00	119.85	-048	141.00	119.85

Niagara 4 Flute Extra Length TiAIN Coated Solid Cutter **Carbide Center Cutting Single End Mills**

Longer flute length to allow deeper cuts.

LIST C430



TiN & TiCN with abrasion resistance. Ideal for high heat applications found in milling steels, stainless steels and high temp alloys with a hardness of 52 HRC and below.

	Mill Dia.	Shank Dia.	of Cut	OAL	1-3244T-	Heg. Net Price	SALE!	Mill Dia.	Shank Dia.	of Cut	OAL	1-3244T-		SALE!
	1/8" 1/8	1/8" 1/8	5/8" 3/4	2"	-001 -002	\$22.70 34.40	\$18.16 27.52	5/16" 5/16	5/16" 5/16	1-5/8" 1-1/2	4" 6	-013 -014	\$60.10 93.10	\$48.08 74.48
Ş	3/16 3/16	1/8 3/16 3/16	1 1 1-1/8	3 3 3	-003 -004 -005	34.40 38.60 38.10	27.52 30.88 30.48	3/8 3/8 3/8	3/8 3/8 3/8	1 1 2	3 4 4	-015 -016 -017	63.40 69.50 69.50	50.72 55.60 55.60
	3/16 1/4	3/16 1/4	1	3	-006 -007	42.10 44.40	33.68 35.52	3/8 3/8	3/8 3/8	1-1/2 3	66	-018 -019	101.00 101.00	80.80 80.80
t	1/4 1/4 1/4	1/4 1/4 1/4	1 1-1/2 1-1/2	4 4 6	-008 -009 -010	47.00 47.00 63.40	37.60 37.60 50.72	1/2 1/2 1/2	1/2 1/2 1/2	1 2 1-1/2	4 4 6	-024 -025 -026	102.00 102.00 147.00	81.60 81.60 117.60
	5/16 5/16	5/16 5/16	1	3 4	-011 -012	56.50 63.10	45.20 50.48	1/2	1/2	3	6	-027	147.00	117.60

DRIAN Indexable 2" Diameter IIIII Recyclable 15° Face Mill

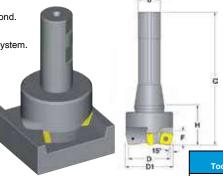
- Recycles negative inserts, 80° diamond.
 Index insert with four cutting edges.
 High rate of material removal.

 The recycles of the control of

- Torx screw (TS-1032-5M1) locking system.
- Number of Inserts: 3.Insert: CNMG-432.
- Torx Key: T-20.

After the cutting edges are used on your turning toolholder, do not throw the insert away. It can be used in this milling cutter to utilize two more cutting edges that were not used in your lathe work.



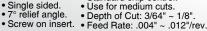


CUTTING RAKE - NEGATIVE 7°: For negative 80° diamond CNMG inserts.

⚠ KORLOY® CCMT Carbide Inserts 80°

FEATURES:

- DIAMOND · Standard chip control.
- Use for medium cuts.
 Depth of Cut: 3/64" ~ 1/8"



GRADE TG-320: Excellent coated grade for general purpose cuts in steel & steel alloys. Equivalent to P10-P30 grade. Recommended cutting speed 500-1,000 SFM.

ASA Code	Insert IC Size	Hole Dia.	Thickness	Corner Radius	Part No. 1-2443-	Reg. Net Price	SALE!
CCMT-21.51	1/4"	.110"	3/32"	1/64"	-931	\$9.62	\$7.70
CCMT-32.51	3/8	.173	5/32	1/64	-932	9.88	7.90
CCMT-32.52	3/8	.173	5/32	1/32	-933	9.88	7.90
CCMT-431	1/2	.216	3/16	1/64	-934	13.10	10.48
CCMT-432	1/2	.216	3/16	1/32	-923	13.10	10.48

Tool Number	С	D	D1	d	F	н	Part No. 1-286A-	Reg. Net Price	NOW!
REC15-200-CN4-075	3-1/4"	2" 2	2-1/4"	3/4"	.45"	1-1/2"	-080	\$242.17	\$205.84
REC15-200-CN4-100	4		2-1/4	1	.45	1-1/2	-085	242.17	205.84
REC15-200-CN4-R8	5-5/8		2-1/4	R8	.45	1-3/4	-090	305.55	259.72

Cut-Off & Grooving **Tool Sets**

FEATURES:

- Integral flexible clamping.Used on CNC's
- and universal turning machines
- Applies for both right and left hand turning operations.

SETS INCLUDE:

- (1) Block
- (1) Blade Extractor
- (1) Allen Wrench
- (10) TiN Coated Inserts.

	 	-	

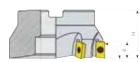
Blade	Block	Insert Type	Part No. 6-895-	Reg. Net Price	SALE!
26-3	19-5	GTN 3	-903	\$328.92	\$279.58
26-4		GTN 4	-904	223.07	189.61
26-5		GTN 5	-905	230.71	196.10
32-3	19-6	GTN 3	-913	232.47	197.60
32-4		GTN 4	-914	235.40	200.09
32-3	25-6	GTN 3	-923	232.47	197.60
32-4		GTN 4	-924	235.40	200.09
32-5		GTN 5	-925	243.62	207.08

"TURBO' Face Milling Cutters

FEATURES:

- 90° square shoulder cutter body.
- · APXT utility inserts make this an economical and multi-purpose choice.





TOOL ANGLES:

Dia. (D)	Arbor Hole (d)	Height (H)	(a)	No. of Inserts	Part No. 6-954-	Reg. Net Price	SALE!
1-1/2"	1/2"	1-37/64"	5/8"	4566	-015	\$266.36	\$226.41
2	3/4	1-37/64	5/8		-020	264.32	224.67
2-1/2	1	1-37/64	5/8		-025	315.46	268.14
3	1	1-31/32	5/8		-030	362.21	307.88
4	1-1/4	1-31/32	5/8	8	-040	412.97	351.02
5	1-1/2	2-31/64	5/8	9	-050	563.43	478.92

RIGHT HAND CUT

3 Pc. SI-STUCR **Boring Bar Set** FEATURES: • For use with 60° SET INCLUDES:

Part No. 6-884-500 Reg. Net Price \$276.97 • Boring Bars: 3/8", 1/2", & 5/8" • TIN Coated Inserts:

6 pcs. TCMT-21.51

cutting edge angle.

triangle negative clearance TCMT inserts. Negative 3° side and end

- Torx Key
- 1 Spare Screw

(A) KORLOY

TCMT Coated Carbide Inserts

TRIANGULAR

FEATURES:

- · Single sided. • 7° relief angle.
- Screw on insert.
- Standard chip control.

- Use for medium cuts.
- Depth of Cut: 3/64" ~ 1/8" • Feed Rate: .004" ~ .012"/rev.

١	grade for general
ı	purpose cuts in
•	steel and steel
	alloys. Equivalent
	to P10-P30 grade.
	Recommended
	cutting speed
	500-1,000 SFM.

GRADE TG-320:

Excellent coated

ASA Code	Insert IC Size	Hole Dia.	Thick.	Corner Radius	Part No. 1-2443-	Reg. Net Price	SALE!
TCMT-21.50.5	1/4"	.110"	3/32"	1/128"	-305	\$8.43	\$6.74
TCMT-21.51	1/4	.110	3/32	1/64	-927	8.43	6.74
TCMT-21.52	1/4	.110	3/32	1/32	-928	8.43	6.74
TCMT-32.51	3/8	.173	5/32	1/64	-929	10.13	8.10
TCMT-32.52	3/8	.173	5/32	1/32	-930	10.13	8.10





Pro-X Mill Indexable Milling Cutters For Aluminum

FEATURES:

- Strong clamping provided by the concave grooves on the back surface of the inserts.
 Inserts feature a buffed top surface ensuring a
- smoother chip evacuation and reducing built-up edge.
 Through coolant system, longer tool life due to direct cooling injection into the cutting edge of the insert.
- Suitable for square shouldering and curved surface machining.
- High rake angle of insert provides good surface finish and low cutting load.



90° Approach Angle

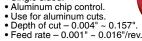
Tool Number	Cutting Dia.	Shank Dia.	OAL	Cutting Length		Part No. 1-244-	Reg. Net Price	SALE!
PAXCA5150HR-A PAXCA5200HR-A PAXCA5300HR-A PAXCA5400HR-A	3/4" 1 1-1/4 1-1/2	3/4" 1 1-1/4 1-1/2	5.12" 5.51 5.91 6.30	2.36" 2.36 2.76 2.76	1 2 3	-214 -215 -216 -217	\$232.72 257.93 275.18 373.69	\$186.18 206.34 220.14 298.95



KORLOY® XEKT Carbide Inserts

FEATURES:

- Single sided.













GRADE H01: Excellent for aluminum and other non-ferrous metals. Equivalent to K10-K20 grade. Recommended cutting speed 1000-2600 SFM.

Specially designed

for high speed machining

of aluminum.

	Insert		D	imensio	Part No.	Reg.			
	Style	1	12	t	r	d1	6-XEK-	Net Price	SALE!
,	XEKT 19M504FR-MA XEKT 19M508FR-MA XEKT 19M516FR-MA XEKT 19M532FR-MA	.709" .709 .689 .689	.646" .646 .646	.197" .197 .197 .197	.016" .031 .063 .126	.171" .171 .171 .171	-19043 -19083 -19163 -19323	\$29.19 29.19 29.19 29.19	\$23.35 23.35 23.35 23.35









and fins for greater strength and durability.

• Redesigned with an aluminum knurled handle

Fins

3 4

MILE BITE Collet

Wrenches

-005 -010 -015

FEATURES:

1005C 1016C 1003J

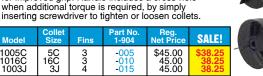
 The collet wrench simplifies insertion and removal of collets in the spindle nose on CNC lathes. · Manufactured with a steel head







1016C





- Unique self-releasing system eliminates sticking.
 Concentricity guaranteed to 0.0004".
- · Wide holding range of each collet
- requires fewer collets and changes. Collapse approximately 1/32" while maintaining full accuracy.

ER 32 COLLETS

Size	Part No. 7-171-	Reg. Net Price	SALE!
1/8" 1/4 3/8 1/2 5/8	-330 -338 -346 -354 -362	\$21.18 21.18 21.18 21.18 21.18 21.18	\$18.00 18.00 18.00 18.00 18.00



ER 16 COLLETS

Size	Part No. 7-171-	Reg. Net Price	SALE!
1/16"	-161	\$16.71	\$14.20
1/8	-163	16.71	14.20
3/16 1/4	-164 -166	16.71 16.71	14.20
5/16	-167	16.71	14.20
3/8	-169	16.71	14.20

ER 20 COLLETS

Size	Part No. 7-171-	Reg. Net Price	SALE!
1/8"	-205	\$17.74	\$15.08
1/4	-211	17.74	15.08
3/8	-217	17.74	15.08
1/2	-223	17.74	15.08

5C Spin Index **Fixture**

FEATURES:

Spindle hardened and

5C 16C 3J

- Spindle nardened and ground to 0.0004" T.I.R.
 Hardened and ground indexing plate with 36 ground holes for direct indexing in 10° increments and graduations in 5° increments.

 10 vernier hole for 1° indexing.
- Base ground parallel to spindle socket.
- SPECIFICATIONS:

Center Height 2-3/4" Weight 15 lbs.

Part No. 8-552-003 Reg. Net Price \$103.70

5C Collet Block Set

FEATURES:

- A simple and effective short jig, for machinist parallel, square or hex shapes as well as for cross hole drilling at 60°, 90°, or 120°. • Standard nut closer and cam
- operated, quick-acting closer can be
- used on both square and hex blocks.
 Ground to .0005" flatness, squareness and parallelism ±0.0005"
- Made of hardened tool steel

OVERALL DIMENSIONS:

1-3/4" x 1-3/4" x 3" CAPACITY:

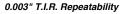
Model No. CBS Part No. 1-519-004

1/16" through 1-1/8" Reg. Net Price \$101.75



5C Mount Precision Chucks





3 Jaw Self Centering Chucks: Supplied with 5C Chuck, T-Wrench, 2 sets hard jaws (1 internal & 1 external).

4 Jaw Independent Chucks

Supplied with 5	C Chuck, T-Wrench, lid reversible jaws.

		Internal		External Hole		Hole				
Chuck Dia.	Chuck Type	Clamping Range	Jamming Range	Clamping Range	Size 5C Chuck	Size thru Chuck	Weight (lbs.)	Part No.	Reg. Net Price	SALE!
3" 4	3 Jaw	2-22mm 2-30mm	25-70mm 30-90mm	22-63mm 30-80mm	24mm 24mm	.630" .866	6.7 10.4	6-303-003 6-303-004	\$222.00 241.90	\$188.70 205.62
3 4	4 Jaw	5-40mm 6-45mm	_	35-80mm 40-100mm	24mm 24mm	.860 .980	9.0 12.5	6-304-003 6-304-004	173.25 271.50	147.26 230.78



BT & CAT40 Retention **Knob Socket**

FEATURES:

- Fits T.J. Davis and other brand retention knobs.
- Made from alloy steel.
- Hardened to Rc 54-56.
- Black oxide finish.
- Lifetime guarantee.

SPECIFICATIONS:

Shank Type BT & CAT40 Square Drive1/2" Flat Drive 3/4"



Part No. 7-081-RKS002 Reg. Net Price \$60.13





CAT40 V-Flange **End Mill Holders**

FEATURES:

Balanced to 15,000 RPM at G6.3.

High precision bore (H5) is best in industry.
Taper ground to AT3 for maximum spindle contact.

Individually inspected, tested and certified for accuracy.

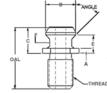
Bore	Proj.	Dia.	Part No. 7-520-	Reg. Net Price	SALE!
1/8" 3/16 1/4 3/8	2.37" 2-1/2 3	.69" .69 .78	-22907 -22909 -22911 -22915	\$99.11 99.11 99.11 99.11	\$84.24 84.24 84.24 84.24
1/2	1-3/4	1-1/2	-22917175	99.11	84.24
1/2	2-1/2	1-1/4	-22917212	99.11	84.24
1/2	3	1-1/4	-22917	99.11	84.24
1/2	4.63	1-3/4	-22918	138.00	117.30
5/8	1-3/4	1-1/2	-22919175	99.11	84.24
3/4	1-3/4	1-3/4	-22921175	111.72	94.96
3/4	3	1-3/4	-229213	99.11	84.24
1	1-3/4	2	-22925175	111.72	94.96
1	4	2	-22925	111.72	94.96
1-1/2	4-1/2	2-1/2	-22929	139.65	118.70

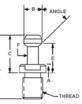
CAT40 V-Flange Pull Studs or Retention Knobs

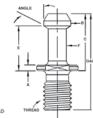
Although retention knobs often look very similar they are not interchangeable. The use of an incorrect knob or the misuse of a knob may result in injury or property damage. It is the responsibility of the end user to verify the supplied knob is correct for the machine.

Retention knob failures may occur for several reasons: improper knob configuration, misaligned machines, metal fatigue due to usage, over torquing, exceeding the machine's capability, etc.

Retention knobs should periodically be inspected. If there are signs of excessive wear or damage, the retention knob should be replaced.







STYLE 1

STYLE 3

STYLE 6

THREAD: 5/8"-11 ANGI F: 45°



Style	OAL	Α	В	С	Е	F	Coolant Hole	Part No. 7-081-	Reg. Net Price	NOW!
3	2-1/4"	.236"	.590"	1.281"	.990"	.390"		-C40002	\$18.50	\$16.65
3	2-1/4	.236	.590	1.281	.990	.390	.156	-C40008	22.20	19.98
6	2-1/8	.120	.590	1.250	.990	.390		-C40020	20.35	18.32
1	1-1/2	.120	.740	.625	.440	.490		-C40044	18.50	16.65
1	1-1/2	.120	.740	.625	.440	.490	.250	-C40046	21.28	19.15
1	1-5/8	.118	.740	.625	.440	.490	.250	-C40054	21.28	19.15



For extra heavy-duty drilling applications on production drilling machines, jig bore, milling machines, lathes and radials. Ideal for close tolerance drilling. The ball thrust bearing reduces friction in the chuck's closing mechanism.

Chuck Model	Capacity	Chuck Mount	Uses Key	Part No. 1-508-	Reg. Net Price	SALE!
14N	0 - 1/2	3JT	K3	-30221	\$264.69	\$224.99
16N	1/8 - 5/8	3JT	K4	-30227	318.12	270.40
18N	1/8 - 3/4	4JT	K4	-30233	478.47	406.70



Milling **Machine Vise**

With Swivel Base

FEATURES:

- All important surfaces
- precision ground.

 Patented Griplock principle eliminates tilt of the movable jaw when it is clamped and also takes up wear.
- 4-jaw plate positions allow extra capacity with the jaw plates in the outside position.

SPECIFICATIONS:

Jaw Width 6"	
Max. Jaw Opening 6-1/4"	
Weight 77 lbs.	



Part No. 8-251-106 Reg. Net Price \$270.25

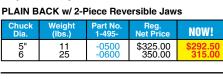


3-Jaw Lathe Chucks

SEMI-STEEL BODY **SERIES 342** MEDIUM DUTY VALUE LINE

FEATURES:

- Hardened scroll.
- Three hardened pinions.
 Maximum .003" TIR using nominating pinion.
- .001" repeatability using nominating pinion.
- 1 year warranty.







Tool Post with Indicator

Reduce set up time with the tool post indicator. This unit is much faster to install and more rigid than a mag base indicator holder. It is the best way to align a work piece in a 4-jaw chuck.

FFATURES:

- · Mounts in any tool post tool holder.
- Body made from high strength aluminum.
- Durable anodized finish.
- High resolution .0005" indicator included.

Part No. 1-811-42000 Supplied with a padded case. Reg. Net Price \$64.99





ITAN

5" General Purpose Bench Vise

With Swivel Base

FFATURES:

- Incorporated anvil.
- Precision cast iron beam. Swivel base with position lock
- Replaceable hardened steel jaws.

CDECIFICATIONS.

SPECIFICATI	UNS.	
Jaw Width		5"
Max. Jaw Ope	enina	4"
Throat Depth	2.3	36"
Weight	21 7 lb	2

Part No. 1-909-22013 Weight 21.7 lbs. Reg. Net Price \$128.04

Made from hardened alloy steel.



Hardened, Ground and Balanced

FEATURES:

- Larger tool capacity.1/4"-20 set screw allows
- for a larger smooth cut. · Comes with a wooden holder.



SPECIFICATIONS: Head Diameter 2-1/2"

Shank Diameter 3/4" Tool Bit Size 1/2"

Part No. 1-512-110 Reg. Net Price \$52.56

2-3/8" Toolmakers **Precision Steel Vise**

FEATURES:

- Single piece construction with V-grooved jaws.
- · All surface including jaws and base are precision
- ground square and parallel.

 Clamping slots at bottom easily affix to angle plates, etc.

SPECIFICATIONS

Jaw Width	2-3/8
Jaw Depth	
Max. Jaw Opening	2-1/8
Body Length	4-3/8
Weight	3.3 lbs
- 9	



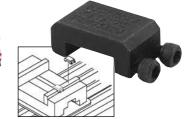
Part No. 2-466-000 Reg. Net Price \$87.13

Vise Clamp Workstop

FEATURES:

- Fits most 6" milling machine vises.
- Clamps quickly and easily to top of jaw.

Part No. 1-541-161 Reg. Net Price \$10.07





KIT INCLUDES:

- (2) 1/2"-13 x 3" Studs. (2) 1/2"-13 x 5/8" T-Nuts.
- (2) 1/2"-13 x Flange Nuts. (2) 1/2"-13 x Washers.
- (1) T-Slot Cleaner.

Part No. 1-903-90442





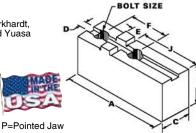
Soft Top Jaws American Standard Tongue & Groove (A.S.T.G.)

MEDIUM DUTY 1/8" TONGUE HEIGHT

For Bergman, Bison, Cushman, Huron, Rohm, Forkhardt, Pratt Burnerd America, SCA, SP, W&S, Nobel and Yuasa chucks. All Jaws are made from 1018 Mild Steel.

	STANDARD HEIGHT											
Chuck Size	H&R Reference #	Α	В	C	D	ш	F	Bolt	J	Part No. 7-905-	Reg. Net Price Ea.	NOW!
6"	HR-459-P	3-3/16"	1-5/8"	1-1/4"	5/16"	1/2"	1.50"	3/8"	1-11/16"	-002	\$27.57	\$26.19
8	HR-450	3-1/2	1-5/8	1-1/4	5/16	1/2	1.75	3/8	1-5/8	-003	21.43	20.36
8	HR-462-P	3-15/16	1-5/8	1-1/4	5/16	1/2	1.75	3/8	2-1/4	-004	30.12	28.61
10	HR-452	4-1/4	1-7/8	1-1/2	1/2	3/4	2.12	1/2	1-15/16	-005	27.57	26.19
10	HR-464-P	4-13/16	1-7/8	1-1/2	1/2	3/4	2.12	1/2	2-11/16	-006	35.73	33.94















ABRASIVES

5H∧VIV Set C The Scraper **Deburring Tool Set** THE FINISHING TOUCH...

Complete with Mango II. Model C blade holder (with key) & C42 scraper.

Mango II

Part No. 1-457-256

SHAVIV



Reg. Net Price \$20.22

Heavy Duty Deburring & Scraping Kit

SET INCLUDES:

- Mango II Handle
- Holder E
- Holder C Blades: E100P, E111, E200, E300, E600, E700, C42

Part No. 1-457-370 Reg. Net Price \$44.93



TITAN EXO BURR **External Deburrers**

FEATURES:

- Quickly repairs damaged threads on steel bolts including stainless steel and hardened steel, threaded rod, copper, brass, aluminum, plastics, and wood. Low speeds make this tool more
- effective. Recommended speed should not exceed 500 RPM in a clockwise direction only.
- · Hardened HRC steel blades remain sharp even after multiple uses.





Capacity	Hex Shank	Part No. 1-909-	Reg. Net Price	SALE!
5/16 to 7/8" (8-22mm)	1/4"	-51950	\$77.85	\$62.28
7/64 to 7/16 (4-12mm)	1/4	-51951	53.05	42.44



NOGA S Tele Set **Heavy Duty**

Deburrs steel, aluminum, plastic, brass and cast iron.

SET INCLUDES:

- NogaGrip 3 HandleS Holder
- (5) S10 Blades
- (5) S20 Blades

Model NG8350 Part No. 1-457-555 Reg. Net Price \$21.89

007 Deburring **Tool Set**

Deburring, cleaning, finishing, and countersink.

- SET INCLUDES:
 S100 Blade (for steel).
 S150 Blade (for plastic).
- RB handle (12mm hex, aluminum).
- OR ("O" ring grooves blade).
 RD 16.5 (RotoDrive countersink).
- RDE 18 (External RotoDrive countersink)
- TC (Thread cleaner blade).

Model SP1007

Part No. 1-457-525 Reg. Net Price \$60.53





Abrasive Media

50 LB. CARTONS



Glass Bead -Used for honing, polishing, peening, blending, finishing and removing light burrs, frosting glass and cleaning most light foreign matter.



Description	Grit	Part No. 2-011-	Reg. Net Price	SALE!
Medium Glass Bead	60-100	-5002	\$59.63	\$53.67
Coarse Glass Bead	40-60	-5009	63.28	56.95
Fine Glass Bead	100-170	-5010	65.59	59.03



6 Pc. Diamond **Needle File Sets**

Gunsmiths, tool and die makers jewelers, and stockmakers all rely on needle files to get the job done.

Supplied in a plastic pouch.

THREE-SQUARE FLAT/WARDING

Coarse Set - 250 Grit

KNIFE

ROUND HALF ROUND **SQUARE**

Part No. 1-609-600C Reg. Net Price \$43.70

Fine Set - 600 Grit Part No. 1-609-600F Reg. Net Price \$38.85



BASTARD CUT

21.94

(TCRESCENT NICHOLSON

Mill Files

FEATURES:

- Two square edges. Single cut on edge and sides.
- File tapers toward

the point for detail.

			JASTAND (
Size	Quantity Per Box	Part No. 1-552-	Reg. Net Price/Ea.	NOW!
6" 8 10	12 12 12	-08354 -08497 -08642	\$8.60 10.35 13.46	\$7.31 8.80

-08737

PFERD Crimped Circular End Wire Brushes

Provide lighter brushing actions and superior finish when cleaning, removing rust and paint, smoothing, descaling, cleaning fettling from cast seams, light deburring.

Dia.	Wire Size	Trim Length	Part No. 1-621-	Reg. Net Price	NOW!
1-1/2" 1-1/2	.006" .012	7/16" 7/16	-031 -032	\$18.18 16.65	\$15.45 14.15
თთი	.006 .014 020	1	-034 -035 -036	23.87 18.41 17.87	20.29 15.65 15.19

SHANK





PFERD Mini-Grinder **Brushes**

Maximize your "Mini" grinder with the line of compact brushes. Designed specifically to fit the majority of the mini-grinders used today, our wide line and multiple arbor hole adaptation covers both light and heavy-duty cleaning jobs. Carbon steel wire.





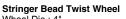




THREADED HOLE WIRE SIZE .020"

Knot Style Cup Wheel Wheel Dia.: 2-3/4" Trim Length: 7/8"

Part No. 1-621-115 Reg. Net Price \$28.03



Wheel Dia.: 4" Trim Length: 3/4" Face Width: 3/16"

Reg. Net Price \$26.32 **\$2237** Part No. 1-621-117



Call: 1-800-521-1740

Fax: 1-800-322-4292

Web: KBCTools.com



Bench & Pedestal Grinding Wheels

Size	Grit	Max. RPM	Part No. 1-595-	Reg. Net Price	SALE!	
6" x 3/4"x H	36-M 46-M 60-M 80-M	4,456	-38007 -38008 -38009 -38010	\$17.33 19.70 17.33 28.12	\$14.73 16.75 14.73 23.90	
6 x 1 x H	36-O 46-M 60-M 80-M	4,456	-38012 -38013 -38014 -38015	29.63 29.63 29.63 29.63	25.19 25.19 25.19 25.19	1
7 x 1 x H	36-M 46-M 60-M 80-M	3,760	-38017 -38018 -38019 -38020	24.86 23.67 23.67 36.23	21.13 20.12 20.12 30.80	
8 x 1 x H ⁴	36-O 46-M 60-M 80-M	3,600	-38022 -38023 -38024 -38025	30.09 30.09 34.25 30.09	25.58 25.58 29.11 25.58	

ALUMINUM OXIDE



AZ Surface Grinding Wheels

VITRIFIED BONDED - AZ

8" x 1/2" x 1-1/4" - 3,600 RPM

Grit	Part No. 1-595-	Reg. Net Price	SALE!
46-H	-34350	\$30.56	\$25.98
46-I	-34351	30.56	25.98
46-J	-34352	30.56	25.98
46-K	-34353	30.56	25.98
60-H	-34354	30.56	25.98
60-I	-34355	30.56	25.98
60-J	-34356	30.56	25.98
60-K	-34357	30.56	25.98
80-K	-34358	30.56	25.98



PREMIUM BLUE ALUMINUM OXIDE: Particularly suited for grinding HSS over 55RC. Specially recommended for grinding heat sensitive steels like aluminum and stainless steels. It grinds with an exceptionally cool cutting action. Requires minimum dressing.

Diamond **Cut-Off Wheels** Type 1A1R

For cut-off and grooving applications. Use Diamond on non-ferrous material.

4" x .035" x 1-1/4" Part No. 1-640-263 Reg. Net Price \$98.60

6" x .035" x 1-1/4" Part No. 1-640-265 Reg. Net Price \$93.40

2" Scotch-Brite™ Roloc™ **Bristle Discs**

FEATURES:

- Discs are designed to resist loading, extending service life.
 Continuous supply of mineral in
- abrasive-filled bristles provides a

Grit	Color	Part No. 1-630-	Reg. Net Price/Disc	NOW!
50	Green	-18730	\$14.72	\$12.51
80	Yellow	-18732	14.72	12.51
120	White	-18733	14.72	12.51





Dresser

For use on coated abrasive belts and discs for removing the load caused by grinding steel, brass, plastic or wood. When used at frequent intervals it will prevent most of the load from forming and considerably increase the life of the belt or disc. For use with 0-60 Grain Belts or 40-80 Grit Wheels for blade sharpening.

Model BCA-4 Part No. 1-607-003 Reg. Net Price \$46.80

BROWN

General purpose

VSM Abrasive Rolls

1" ROLLS - 50 YARD LENGTHS **HEAVY-DUTY - FINEST QUALITY**

- · Aluminum oxide is a tough, durable grain characterized by the long life of its cutting edges. A resin over resin bond provides
- strong heat and moisture resistance.
- The flexible backing can withstand heavy use without tearing.

Grit	Part No. 1-625-	Reg. Net Price	SALE!
60	-060	\$22.12	\$18.80
80	-080	20.64	17.54
100	-100	18.87	16.04
120	-120	18.87	16.04
150	-150	17.48	14.86
180	-180	18.87	16.04
220	-220	18.87	16.04
240	-240	19.41	16.50
320	-320	18.87	16.04
400	-400	19.41	16.50



ALUMINUM OXIDE

Constructed with a universal aluminum oxide grain and a flexible cloth backing. Ideal for use in many hand sanding applications such as deburring, blending and surface preparation.

IPERIOR SHUR-KUT® Premium Gold Stik-On Stearate **Paper Discs**

Heavy duty paper disc with anti-load stearate coating that is resin bonded for fast cutting and long life. Designed for industrial and automotive use. Ideal for metal, wood, paint and fiberglass.

Size	Grit	Part No. 1-613-	Reg. Net Price/Roll	SALE!
5"	80	-25078	\$44.54	\$37.86
	100	-25079	41.65	35.40
	120	-25080	41.65	35.40
	150	-25081	41.65	35.40
100/roll	180	-25082	41.65	35.40
	220	-25083	41.65	35.40
	240	-25084	41.65	35.40
	320	-25085	41.65	35.40



6" Diamond Plain **Cup Wheels**

Type 6A2C

FEATURES:

Resin bonded.

150 Grit,

100 Concentration - 1/8" Depth 75 Concentration - 1/16" Depth With countersunk bolt holes.

Use for grinding single point turning tools. Available in D11V9.



Economy 75 Concentration with only 1/16" Diamond Depth.



Thick.	Depth	Hole	Part No.	Reg.	SALE!
T	W	H	1-640-	Net Price	
3/4"	3/4"	1-1/4"	-162	\$110.10	\$88.08
3/4	1/2	1-1/4	-163	113.20	90.56
1	3/4	1-1/4	-164	144.00	115.20

32 33 34	\$110.10 113.20 144.00	\$88.08 90.56 115.20	

TRIUMPH PLUS Flap

FEATURES:

Gives up to 30x more

life than a resin fiber-disc. • Cuts much cooler and reduces glazing

and loading with self sharpening flaps.
Especially lightweight design reduces operator fatigue and noise levels.

Z3 ZIRCONIA: Premium 100% Zirconia Aluminum with cotton backing to provide flexibility. Offers maximum cutting capacity, strong edge stability and long-life.

TYPE 27 - Used when working on flat grinding surfaces. Most efficient when used between 0-15° angle.

TYPE 29 - Conical type has an angle excellent for contour and edge work. Best at more dramatic angle of 15-25°.

Discs

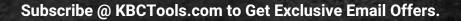


			TYPE 27			TYPE 29	
Size	Grit	Part No. 1-704-	Reg. Net Price/Ea.	SALE!	Part No. 1-704 -	Reg. Net Price/Ea.	SALE!
4-1/2" x 7/8" 13,300 RPM	40 60 80	-2302 -2304 -2305	\$5.15 5.15 5.15	\$4.64 4.64 4.64	-2322 -2324 -2325	\$5.15 5.15 5.44	\$4.64 4.64 4.90









MEASURING & INSPECTION



IP65 Extended Range Test Indicator

FEATURES:

- Automatic reversal.
- · Revolution counter.
- Jeweled movement.Easy-to-read tilted dial.
- IP65 Protective Rating.

INCLUDES:

- (2) Dovetail Stems.
- (3) Tungsten Carbide Points: .080", .040", .120". Year Warranty.

Supplied with a molded case. Part No. 1-815-355 Reg. Net Price \$87.36

SPECIFICATIONS:

Dial Reading 0-15-0

Indicator

Designed to keep the indicator tip on

a plane that intersects the spindle axis. Clamp Mount: Mounts to 1.75" boss that is on most CAT40 tool holders.

Made from high strength aluminum.
Durable red anodized finish.

The unit clamps to the spindle nose without the need to remove tooling from the collet.

Indicator clamp holds both dovetail and 5/32" post adapter.

SPECIFICATIONS:

Top & Bottom Arm Length 2-1/4" Indicator Stem Hole 5/32" & Dovetail

3/8" Shank Mount Model # 44-000

Part No. 1-811-44000 Reg. Net Price \$64.99

Clamp Mount Model # 43-000

Part No. 1-811-43000 Reg. Net Price \$74.99

Mitutoyo "QUICK-SE I Dial Test Indicator

Series 513 - Horizontal Type

FEATURES:

- Performs easy and accurate measurement of narrow or recessed areas, plus inside and outside diameters that dial indicators cannot access.
- No-clutch structure for automatic
- reversal of measuring direction.

 The glare-free flat crystal face has a scratch-resistant coating.
- High sensitivity and quick response
- because of jeweled bearings. One-piece bezel and crystal design with O-ring provides resistance to water and dust.

SPECIFICATIONS:

Range	03
Graduation	
Dial Reading	0-15-0

Part No. 1-808-513402 Reg. Net Price \$153.00

INCLUDES:

Indicator.

With SPC/USB Data Output

- Stem: 3/8" (8mm).
 Knurled Clamp Ring.
 Carbide Contact

Point: .079" (2mm).



Magnetic Base & Test Indicator Kit

COMPLETE

WITH SHOP

HARDENED

.040" & .120

CONTACT

POINTS.

MAG BASE FEATURES:

- 2 universal ball sockets. · Microfine adjustment screw.
- Extension Screw: 3-9/16"
- Dovetail mounting.

Supplied in a

protective case.

Attachable finger

lever not included.

INDICATOR FEATURES:

- Range: .030" Reading: 0-15-0
- Diameter Point: .080"Jewelled movement.
- · Graduation: .0005" · Auto-reversing.

Part No. 52-585-100 Reg. Net Price \$196.79



iGAGING Digital Indicators

FEATURES:

- Stem Diameter: 3/8".
- Thread Size: #4-48.
 Resolution: 0.0005" (0.01mm).
 Repeatability: 0.0005".
 IP54 protective rating:
- Moisture and dust resistance.
- Absolute encoding technology: Memorize absolute origin zero.
- Ultra-Response measure speed.
- Inch/Metric conversion.
 High contract LCD display.
- 330° display rotation.

- Preset and tolerance function.
 Ceramic contact point.
 Lug and flat back included.
- Battery 3V CR2032 included
- Attachable finger lever included.

Range	Accuracy	Part No. 1-815-	Reg. Net Price	SALE!
0-1/2" (0-12.7mm)*	0.0005"/0.01mm	-430	\$89.95	\$71.96
0-1" (0-25.4mm)	0.0005"/0.01mm	-432	109.95	87.96
0-2" (0-50.8mm)	0.001"/0.015mm	-434	169.95	135.96





FEATURES:

- Five axis holder.
- Magnetic Pull: 176 lbs./ft.
- Black finished arms

- (bottom arm 5.26", top arm 5.24". Instant fixation in any position. Central locking mechanism with
- NOGA designed spring loaded bearing. Powerful magnet with on/off switch. Universal swivel clamp holds a 6mm,
- 8mm, 3/8" stem, dovetail or back lug.
- Fast and easy to set up gauges.

Model No. MG61003 Part No. 1-457-910

Reg. Net Price \$178.41



Touch Off Gage

Allows standardization the way tool offsets are measured in the shop. Use this gage by lowering the tool down onto the contact face until the indicator reads zero. At that point the tool tip is exactly 4" from the surface the touch off gage is sitting on.

FEATURES:

- The rectangular base and recessed indicator face allow it to fit between vise jaws on a pair of parallel bars.
- Accurately establishes tool length offsets for CNC milling machines.
 The contact face (1/4" dia.) is lightly
- spring loaded to protect against overrun.
- Large 2.2" easy to read indicator face. Easy calibration check using 1-2-3 blocks.
- Body and contact face are made from
- red anodized 6061-T6 aluminum.
 Offset Height: 4" (101.6mm).
 Gage Graduations: 0.001".
- Gage Repeatability: 0.0002".



With Fine

Adjustment

Ón Top

Clamp

Reg. Net Price \$124.99







Part No. 1-808-500196 Reg. Net Price \$184.00

Without SPC Output.

 The ZERO/ABS key allows the display to be Zero-Set at any slider position and will allow return to the absolute (ABS) coordinate and display of the true position from the origin point (usually jaws-closed point).

Supplied in a fitted plastic case.



SALE \$149.00 217.00 331.00

Supplied with a fitted case,

- Improved finish on sliding
- surfaces for longevity.

 Dial movement for ultra smooth sliding and high shock protection.

Supplied in a fitted plastic case.



Supplied with a molded plastic case.

FEATURES:

- 4-way measurement;
- outside, inside, step, depth. Resolution: .0005" (.01mm)
- (fractions in 1/64" increments) Water resistant to IP54 standards.
- Absolute/Incremental measurement.

Range: 0-12" (0-300mm)

Part No. 54-100-332 Reg. Net Price \$241.26

Part No. 54-100-3301

Reg. Net Price \$158.94

Starrett Bore Gages Series 3089

FEATURES:

- Graduation: .0005"
- Probe Depth: 6"
- Carbide 2-point contacts for extended wear. All anvils laser marked for easy selection.
- Gage chart for quick and easy anvil selection

•	Ergonomic design with non-s	lip insulating grip.

						-
Starrett No.	Measuring Range	Contacts	Spacers	Part No. 1-855-	Reg. Net Price	SALE!
3089Z-131-715J 3089Z-131-1424J 3089Z-131-26J*	0.7-1.5" 1.4-2.4 2.0-6.0	10 6 11	2 4 4	-12456 -12457 -12458	\$361.00 361.00 403.00	\$306.85 306.85 342.55

3-1/4" Diameter, 1/8" Thick

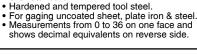
Supplied with a sturdy aluminum case (cutouts for gage and all accessories).

Includes one 2" extension.

Wire & Sheet Metal Gage

FEATURES:

- U.S. Standard.
- For gaging uncoated sheet, plate iron & steel.
 Measurements from 0 to 36 on one face and





Screw Pitch Gages

- 28 Blades included are both V, American National & U.S. Standard 60° threads.
- · Locking device at each end secures blades.
- · Narrow leaf blade for internal and external thread.
- · Each blade clearly marked with proper thread size.

Туре	No. Of Groups	Blades Included	Part No. 1-804-	Reg. Net Price	SALE!
English	2	1. 4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16 inch 2. 18, 20, 24, 27, 28, 32, 36, 40, 44, 48, 56, 64, 72, 80 inch	-511	\$27.28	\$23.19
English/ Metric	2	1. 4, 6, 8, 10, 11, 11-1/2, 12, 13, 16, 20, 28, 32, 40, 58 inch 2. .5, .75, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 6 mm	-513	27.28	23.19
Metric	2	1. .25, .3, .35, .4, .45, .5, .55, .6, .65, .7, .75, .8, .85, .9 mm 2. 1, 1.1, 1.2, 1.25, 1.3, 1.4, 1.5, 1.6, 1.7, 1.75, 1.8, 1.9, 2, 2.5 mm	-515	27.28	23.19

1 x 2 x 3" **Block Pairs**

Ideal for mounting work for precision grinding and layout.

FEATURES:

- Precision ground and hardened on all sides.
- 23 Holes per Block: 5 are tapped 3/8"-11, 18 are untapped.
 • Parallelism: ±.0002".
- Hardness HRC 56-60

Part No. 1-806-003T Reg. Net Price \$20.75



4 Pc. Full Ball Hole Gage Set

SET INCLUDES:

- (4) Gages: .125 to .200'
- .200 to .300'
- .300 to .400'
- .400 to .500'

Heat-treated & precision-ground.

Part No. 8-412-002C Reg. Net Price \$24.00

For measuring inside diameters of small holes and slots (1/8-1/2").

Bore Gage Inch/Metric



- Graduation: 1/64" (.1mm)
 Range: 1/32" 5/8" (1-15mm)
 Made from polished stainless steel.
- Clearly etched graduations for inch on one side and metric on the other.
- · Handy gage for measuring cylindrical bores, bearing work and for gaging slots.

Part No. 1-397-359 Reg. Net Price \$11.76









MEASURING & INSPECTION

GENERAL®) 6" Stainless Rule



Depth gage pocket clip. Width 1/2" Front: Quickreading 32nds & 64ths. Back: Decimal Equivalents.

Part No. 1-805-300 Reg. Net Price \$2.86

4 Pc. Machinists' **Steel Square Sets** Thin Blade With Wide Beam **FEATURES:** Accuracy to workshop grade. Square accurate both inside and outside. Made of finest steel. · Hardened blade.

Sizes Included	Part No. 1-397-	Reg. Net Price	SALE!
2", 3", 4", 6"	-026X	\$29.94	\$22.46
4", 6", 9", 12"	-028X	62.37	46.78

Center Finder

FFATURES:

 Accurately and quickly locates center on round workpiece.

 Place the tool in drill chuck or collet and line up pointer with line scribed on shaft.

SPECIFICATIONS:

Shank Diameter 3/8" Overall Length 4-1/8"

Part No. 1-397-730 Reg. Net Price \$9.94





Starrett **Edge Finders**

Contact Diameter: 0.200". · Work surfaces may be

located easily and accurately.

Body and contacts are made of tool steel, hardened and ground lapped to close tolerances for diameter and concentricity.

Starrett #827A

Single End Body Diameter: 0.375"

Part No. 1-855-53062 Reg. Net Price \$38.00

Starrett #827B

Double End Body Diameter: 0.500" Part No. 1-855-53063

Reg. Net Price \$45.50



OptiVISOR® Binocular DONEGAN Magnifiers

FEATURES:

- Precision binocular headband magnifier offering hands-free efficiency and eye-strain reduction
 • Can be worn with or without
- glasses by anyone requiring
- close accuracy in their work.

 Ground and polished optical lenses.

Power	Focal Lgt.	Part No. 1-700D-	Reg. Net Price	SALE!
2.00X	10"	-DA-4	\$70.39	\$59.83
2.50X	8	-DA-5	70.39	59.83



Starrett 2 Pc. 12" Combination Square Set Series 11H

GRADUATIONS: No. 4R -

8ths, 16ths, Quick Reading 32nds, 64ths

With reversible lock bolt, scriber, spirit level, and hardened steel, machine-divided blade with regular or satin chrome finish. Cast iron heads with black wrinkle finish.

Starrett #11H-12-4R Part No. 1-855-50055 Reg. Net Price \$114.00



Mitutovo

Coolant Proof **Digimatic** Micrometer

Series 293

FEATURES:

- Resolution:
 .00005" (.001mm).
 Ratchet Stop.
 Auto power ON/OFF function.
- Certificate of inspection is included. It is not the type used to obtain calibration certificates.
- IP65 protection level, enabling use in environments exposed to cutting oil, etc. Anti-corrosion treatment is required after use.



Range 0-1" (0-25mm) Part No. 1-808-293340 Reg. Net Price \$260.00



II Electronic **Micrometer**

XTRA-VALUE





FEATURES:

- Ratchet thimble.
- Large LCD display.Direct RS232 output.
- Carbide measuring faces.
- Jet black, grey, enamel finish.
 Resolution: .00005" (.001mm).
 Accuracy: ±.00016"/.004 (up to 2").
- Absoluté and incremental modes.
- Replacement battery: CR2032
- Supplied with a shop hardened case.



Range: 0-1" (0-25mm)

Part No. 54-870-001

Reg. Net Price \$119.20



Supplied with a

fitted plastic case.

Mitutoyo

0-4" Depth **Micrometer**

Series 129 Interchangeable Rod Type

FEATURES:

- Satin-chromed finished throughout.
- Ratchet stop for constant force.
- Crisp, clear graduations on the thimble.
 Graduation: .001".

Part No. 1-808-129127 Reg. Net Price \$222.00



SPECIFICATIONS: Range 0-4" Base Length 2.5" No of Rods 4

ITAN 4.4x Magnifying Glass

FEATURES:

- 4.4x magnification.
- Lens measures 2-7/8"
- Letis illeasures 2: 77-1/4" overall length.
 Non-distorting optical grade glass lense.
 Comfortable TPR rubber grip handle.
- TRP rubber framing for extra protection. Slide on/off switch to control light.
- Includes (3) LR44 batteries





Call: 1-800-521-1740

MEASURING & INSPECTION

IP54 Absolute Digital Height Gages

- IP54 protective rating.High contrast LCD display.
- Hold Function.
- SPC data output port.
- INC Function.
- Absolute Encoding Technology: Memorize absolute origin zero.
- Single beam construction with hand wheel for optimize movement.
 • Resolution: 0.0005" (0.01mm).
- AC Power or CR2032 battery.

Ultra-Response measure speed.
 Work with ABS Indicator for extreme accuracy.
 Includes: Carbide tipped scriber & molded protective case.

Range: 0-12" (0-300mm) Accuracy: 0.001" (0.03mm) Part No. 1-815-630

Reg. Net Price \$436.70

Range: 0-18" (0-500mm) Accuracy: 0.002" (0.05mm) Part No. 1-815-635

Reg. Net Price \$655.10

Stainless Steel Center Gages

FEATURES:

· Made of hardened. spring tempered steel with satin chrome finish.

Micro-fine graduations 14ths and 20th on one side, 24ths and 32nds on the other.

60° American National

Part No. 1-999-035

55° Whitworth Part No. 1-999-040



Fowler 81 Pc. Rectangular SHOP-BLOX Gage Block Set

Fowler "Economy/Workshop" grade gage block set is identical to standard sets in all respects, except for a wider range of tolerance which is more than adequate for a majority of shop needs. Blocks are rectangular, constructed of the finest grade of high carbon/chrome steel, fully stress relieved, hardened to 65 RC, lapped and mirror polished to a very low micro-surface finish. Blocks feature a low coefficient of thermal expansion, and they are carefully inspected for accurate size, parallelism, and flatness.

FEATURES:

- Accuracy ±.00005"
- Certificate of calibration traceable to NIST.
- Inspected according to meet NIST Federal Specification ASME B89. 1.9 2002 tolerances on length for inch gage blocks.

- 9 Blocks .1001" .1009" (Steps of .0001")
 49 Blocks .101" .149" (Steps of .001")
- 19 Blocks .05" .95" (Steps of .05") 4 Blocks 1" 4" (Steps of 1")

Supplied with a highquality fitted wooden case

Part No. 53-672-081 Reg. Net Price \$301.09



- Two V-blocks with approx. 1-1/2" dia. clamping capacity, each measuring 1-1/2" square, and 2" long. Two V-blocks with approx. 1" dia.
- clamping capacity, each measuring 1-1/4" square, and 1-1/2" long.
- Corresponding dimensions for each pair are alike within .0005".
- · Surfaces and V-Grooves are square & parallel within .0005".

4 Blocks & 4 Clamps

Part No. 52-475-500 Reg. Net Price \$179.55

Supplied with a shop hardened case.



Precision Magnetic Dial Protractor

With Center Punch

FEATURES:

- Marks center of flat. square, or round stock.
- Magnetic v-base. Hardened steel center punch.

Part No. 1-815-500 Reg. Net Price \$87.31

SPECIFICATIONS:

Max. Vee Opening 3.20'



6 Pc. Adjustable Parallel Set

SET INCLUDES:

- (6) Parallels:
- 3/8 to 1/2" 1/2 to 11/16'
- 11/16 to 15/16'
- 15/16 to 1-5/16"
- 1-5/16 to 1-3/4 1-3/4 to 2-1/4'

Part No. 8-410-065 Reg. Net Price \$54.95

FEATURES:

Set consists of two precision ground pieces which slide smoothly on each other.

• Locked into position by set screws.

 Can be quickly be inserted into openings and expanded to exact size, then measured with a micrometer.

Supplied in a vinyl case.

Magnetic Base

With Fine Adjust

FEATURES:

- Magnetic Pull: 130 lbs.
- Base: 2-5/8" x 2
- Overall Height: 9"
- Permanent magnetic type on-off switch makes it easy to rest on iron or steel.

Part No. 8-410-005F Reg. Net Price \$21.00



Universal Bevel Protractor

- Graduation: 1° Dial, 5 min. Vernier
- Satin chrome finish on dial face and vernier for easy reading.
- Hardened stainless steel.
- Blade slides over full length, with knurled thumb lock. Vernier reading in

5 min. of the arc.Positive locking.Supplied in a fitted case.



Part No.

Reg. Net Price \$61.50

Starrett

6" Machinists' **Improved** Level



Series 98 with Cross Test Vials

FEATURES:

- · Ground and graduated main vials.
- Adjustable to a positive setting. · Base of the levels feature an involute groove running the length of base, providing a reliable seat for round work.
- With the cross test level, it's possible to simultaneously level in both directions.

Starrett #98-6 Size: 6" (150mm) Part No.

1-855-50441

Price \$186.00 \$16368











MACHINERY



7" x 12" Nova DVR **Metal Cutting Bandsaw**

1 HP, 120V, 1 PH Motor





FEATURES:

- Smart metal bandsaw combines common bandsaw features with state of the art technology.
- Powerful direct drive 1 HP high torque brushless
- motor without pulleys or belts to cause vibration.

 Digital Variable Reluctance (DVR) Direct Drive Technology with Adaptive Control™ Software.
- Includes a 240V conversion components kit which increases the HP of the motor.

 • TRU-LOCK quick locking clamping vise system.

Model 59001

Part No. 6-125-080

AS LOW AS \$68.98/mo.

SPECIFICATIONS:

Cutting Capacity:		
90° Rectangula	r/Round	7" x 12"/7
45° Rectangula	r/Round	4-1/2" x 5"/5
Speeds		80-340 FPI
Biade		93" x 3/4" x 0.032
Motor	15 AMF	2, 120V, 1PH, 60 H

COMPLETE WITH:

- Blade
- Workstop.
- Firmware.
- USB cable Adjustment Wrenches.
- Vertical Saw Table.



Automatic Cycle Bandsaws

Model BS-12A (12" Round Cap.) Part No. 6-275-007

3,99500

Model BS-15A (15" Round Cap.) Part No. 6-275-009

AS LOW AS FEATURES: \$321.89/mo.

- Full auto cycle.
- 3 HP drive motor. 1" bi-metal blade.
- Cast iron construction.
- Net Weight: 1,800 or 2,200 lbs.
 Shipping Weight: 2,000 or 2,500 lbs.





The sander uses a direct ball bearing drive from the motor to the sanding disc and belt deliver a maintenance and vibration free positive torque flow.

FEATURES:

- Precision ground cast iron tables.
- On/off toggle switch with safety key.
- Cabinet style stand with power coated paint.

Model WS1712 Part No. 6-397-WS1712





9" x 16" Horizontal **Bandsaw**

1-1/2 HP, 115/230V, 1 PH Motor

Model BAH-916 Part No. 6-271-025

\$3,69500 AS LOW AS \$84.95/mo.

FEATURES:

- 9" round, 3" x 16" or 9" x 13" rectangular capacity @ 90°.
- 4 blade speeds with 1" x 129" blade.
- Hydraulic feed control.
- · Built in coolant system.



10" Variable Speed Horizontal Miter **Bandsaw**

2 HP, 230/460V, 3 PH Motor

Model BAH-1018M-VS Part No. 6-280-015

AS LOW AS

\$167.67/mo. **FEATURES:**

- Hydraulic feed control.Built in coolant system.
- Variable blade speeds.
- 1" x 136.8" blade.
- Miter design with swivel saw bow.
 10" round, 10" x 16" or 6" x 18" rectangular capacity at 90°.



FEATURES:

- 7" round, 7" x 12"
- rectangular capacity.
 Portable Take to
- the job and plug it in.
- Hydraulic feed control.
- Búilt-in coolant system.
- 4 blade speeds.3/4" x 93" blade.

Model HVBS-712 Part No. 6-200-033



Horizontal/ Vertical **Bandsaw**

3/4 HP, 115V, 1 PH

FEATURES:

- Built in coolant system. · Hydraulic feed control.
- 4 blade speeds. Portable Take to the job and plug it in.

Model BAH-712 Part No.

SPECIFICATIONS: Capacity.... 7" ● / 7" x 11" ■ Blade Size93" x 3/4"





DON'T SEE THE MACHINE YOU NEED?

Shop KBCTools.com or email us with your specific needs at machinery@KBCTools.com



1 HP, 115, 1 PH Motor

FEATURES:

- Rugged simple construction for easy maintenance
- and long service life. Accurate gravity feed with hydraulic speed control and depth stop.

Model FF-1459 Part No. 6-398-005

SPECIFICATIONS:

00

1-0

AS LOW AS \$179.29/mo.

18" Variable Speed Vertical **Bandsaw**

1 HP, 230V, 1 PH Motor

WITH BLADE WELDER

FEATURES:

- · Quality construction,
- built on a solid cast iron frame. Built-in blade welder with grinder wheel, work light, chip blower, and blade shear that will weld blades up to the saw capacity.

Model **BAV-450** Part No.

Part No. **\$5.075**00 6-395-027

AS LOW AS \$116.73/mo.

SPECIFICATIONS:

Culling Height/Width	10 / 10
Blade Size (L x W)	140-1/2" x 1/8" - 5/8"
Table Size22	-1/4" x 19-5/8" x 3/8"
Table Tilt (R x L & F x B	
Dimensions (H x W x D)	
Cutting Speeds (Var.)	82-384 FPM

14" Coldsaw 2 HP, 230V, 3 PH Motor

FEATURES:

14" diameter blade cuts up to 4-1/2" diameter stock.

AS LOW AS \$101.78/mo.

- 2-speed (18 & 36 RPM) cold saw
- uses a metal blade to cut burr-free.
- Direct drive oil-filled worm gearbox.
 On/off control switch in handle grip
- turns on the blade and coolant.

COMPLETE WITH:

Self-centering vise, cabinet base with built-in coolant system, oil filled worm gearbox, 45° swivel of head left and right, and 1 year parts replacement warranty

Blade Included



High Speed

Part No. 6-545-006

20" Variable Speed Vertical **Bandsaws**

WITH BLADE WELDER

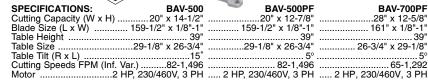
Model BAV-500 Part No. 6-396-015

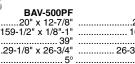
Model BAV-500PF with Table Power Feed Part No. 6-396-025

Model BAV-700PF

with Table Power Feed Part No. 6-396-035

AS LOW AS \$178.25/mo.





. 5°

PALMGREN 12" Disc **Abrasive Finishing Machine**

Ideal for finishing outside radius of metal, wood, plastics, and composite materials. You can sand, grind, chamfer, deburr or just use for general finishing and cleaning applications.

FEATURES:

- Direct drive. 45° tilting table.
- Miter gauge.
- Dust collection port.

Part No. 1-549-81312

SPECIFICATIONS:

OI EOII IOA HOITO.	
Disc Diameter	12"
HP	3/4 HP
Voltage	120V
Max. Speed 1,72	20 RPM
Table Size17-1/4":	x 8-3/8"
Dust Port	2"

KALAMAZOO 2" Belt Sander

1/2 HP, 115V, 1 PH Motor

FEATURES:

- Multi-position sanding head. · Removable and adjustable
- 0-45° steel work table. 2" x 48" Belt.
- Hinged guard for
- quick belt change.

Shipping Weight (approx.): 50 lbs.

Part No. 2-002-2FSM







Disc & Belt Sander With Floor Stand

Model 9648 Part No. 6-150-005

BAV-700PF

FEATURES:

- 9" disc & 6" x 48" belt. Table can be switched
- from disc side to belt side and tilts 45° R&L. Can be switched
- horizontal to vertical.

NOTE: Shipped partially assembled.

SPECIFICATIONS:

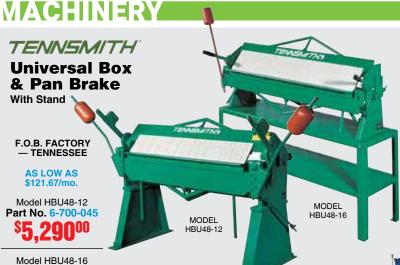
Belt Size	6" x 48
Belt Speed	2.300 SFPN
Disc Size	2,300 SFPN
	3,000 RPN
	HP 115V 1 PH











Part No. 6-700-040 SPECIFICATIONS: Capacity (mild steel). 22 GA 16 GA 12 GA
Bending Length 48-1/4" 48-1/4" 48-1/4"
Max. Depth of Body 3" 4" 4" Model HBU48-22 Part No. 6-700-035 \$1₋405⁰⁰

HBU48-22 HBU48-16 HBU48-12 Max. Ell Of Bear Beam Adjustment ... 1/8" ... 5/8" ... 1"

Min. Reverse Bend... ... 5/16" ... 1/4" ... 1/4"

Min. Flange in Cap. Material ... 3/8" ... 1" ... 1"

Finger Widths 2, 3 & 4" ... 2, 3 & 4" ... 2, 3 & 4"

TENNSMITH 16 Gauge Foot Squaring Metal Shears

Model 36 Part No. 6-700-005 \$**3.075**00

Part No. 6-700-010 <u>.845</u>00

FEATURES:

 Max. Shearing Capacity (mild steel): 16 GA. Max. Shearing Capacity (stainless steel): 20 GA.

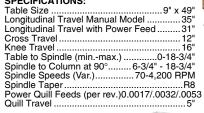
Back Gauge Range: 30"
Front Gauge Range: 37"

F.O.B. FACTORY TENNESSEE

> 3 HP Variable Speed Head!

SPECIFICATIONS: Maximum Cutting Length	MODEL 36	
Floor Space, Gauges in F	Position45" x 80"	
Overall Dimensions, Less	Gauges,	
LyWyH	46-1/2" v 27" v 42"	61" v 36" v 42"

9" x 49" Turret Milling Machines 3 HP, 230/460V, 3 PH Motor



Model TUM-1VS Part No. 6-265-007

With NEWALL NMS-300 DRO & Table Feed Installed Part No.

6-265-007-N3 \$11,355⁰⁰ AS LOW AS \$212.64/mo.

NMS-300 2-Axis



Part No. 6-275-003 **\$2.750**00

6" x 26" Vertical

Milling Machine

with adjustable tapered gibs.

2 HP, 115V, 1 PH Motor

FEATURES: Reversing switch.

SPECIFICATIONS: Drilling / End Mill Capacity1-1/4" / 3/4" Table / Cross Slide Travel......18" / 7' Effective Table Area......28" x 8" Overall Height......43-1/2"

· Manual guill feed both rapid spoke wheel and fine feed handwheel control with an easy to read, front mounted depth gage.

• Dovetail ways on table and saddle

Head assembly is raised and lowered on the column by a crank. The head pivots 360° on

the column and can be locked in any position.

7" x 18" Vertical Bench Mill

COMPLETE WITH:

FREE floor stand, drawbar for R8 collets, and front and rear rubber way covers.

NEWALL Digital Readout

10" x 54" Heavy-Duty **Milling Machines**

_		
SPECIFICATIONS:	TUM-3VS	TUM-40VS
Table Size		
Longitudinal Travel Manu	ıal32"	32"
with Power Feed		
Cross Travel	16"	16"
Knee Travel	16"	16"
Spindle Speeds		
Spindle Taper	R8	NST40
Quill Travel	5"	5"
Spindle Motor	3 HP. 3 PH	5 HP. 3 PH
Voltage		

Model TUM-3VS (230V, 3 PH) Part No. 6-265-006

With NEWALL NMS-300 DRO & Table Feed Installed

Part No. 6-265-006-N3 \$12,080⁰⁰

Model TUM-40VS (230V, 3 PH) Part No. 6-265-009

2,50000

With DRO & Table Feed Installed 6-265-009-N3 \$14.480⁰⁰



5 HP Motor, #40 NST Spindle Taper, Hardened & Ground Square Ways on Knee and Column.



1 HP, 115V, 1 PH Motor FEATURES: Dovetail ways with adjustable tapered gibs under the table and saddle 7 on the column face. Spindle feeds with a manually operated rapid feed lever or a fine feed handwheel. Turret head tilts to either side 90° and swivels 120° right or left. R8 taper spindle accepts all common R8 tooling. Model VM-12-R8 Part No. 6-380-001 \$4,20000

AS LOW AS \$96.60/mo. SPECIFICATIONS:

Spindle Taper.....R8 Longitudinal Travel 14-1/2 Cross Travel.....6" Table Size6" x 26'

COMPLETE WITH: FREE floor stand, work light, front and rear rubber way covers, cabinet floor stand, and drawbar for R8 collets.



Radial Drill Press

With 39" Arm 3 HP, 230/460V, 3 PH Motor

Box Table, Coolant System and Work Light Included!

> Model RD-1000 Part No. 6-269-011 1**3,500**00

SPECIFICATIONS:

Dist. Spindle to Column	39.4"
Spindle Taper	4 MT
Quill Travel	9-7/8"
Column Diameter	10"
Drilling Capacity	1-1/2"
Overall Height	93"
•	



1-1/2 HP, 115/230V, 1 PH Motor

Model JDP-20MF

Part No. 6-200-039

\$1,49900

COMPLETE WITH:

Built-in work lamp,

and 3/4" capacity drill chuck and key.

Model GHD-40

Part No.

6-325-015

AS LOW AS

\$98.10/mo.

t-slot table with

coolant through,

FFATURES:

- Rotating ± 45° tilting, crank-operated worktable
- with quick-release clamp.

 1/2" diameter external positive depth stop with 3-nut locking feature.

 Hinged metal belt and pulley cover.
- Adjustable tension spindle return spring.
 Quick adjustment motor mount.
- · Spindle supported by high quality ball bearings.

SPECIFICATIONS:

Swing	20-1/2"
Drilling Capacity	1"
Spindle Taper	3 MT
Spindle Travel	
Dist. Spindle to Table	29-1/8"
Speeds (12)	150-4,200 RPM
. ,	*

Gear Head Drill Press

1-1/2 HP, 230V, 3 PH Motor

FEATURES:

- 2-speed instant reversing motor for tapping.
 X & Y table movement with graduated dials.
 Up to 24" capacity spindle table.
 Gear head direct-drive of spindle.

- Rapid and fine manually operated quill feeds.

COMPLETE WITH:

Rear rubber way cover, 2-axis t-slot work table, geared head spindle drive, and graduated dials for X & Y handwheels.

CDECIFICATIONS.

SECIFICATIONS.	
Swing	22-1/2'
Column Diameter	
Table Size	7-1/2" x 23-3/4"
Table Travel	7-1/2" x 14-1/2"
Spindle Travel	4-3/4"
Spindle Taper	4 MT
Drilling Capacity (in m	ild steel)1-1/2"
Spindle Speeds (6)	9-1,970 RPM

24" Geared Head **Drill Press**

1-1/2 HP, 230V, 3 PH Motor

SPECIFICATIONS:	
Swing	24"
Drilling Capacity	
Spindle Taper	
Spindle Travel	6-5/8"
Dist. Spindle to Column Face	12"
Dist. Spindle to Table3	2-1/2"
Dist. Spindle to Base	47"
Column Diameter	5-1/2"
Table Size20"	x 16"
Motor3/4/1.5 HP; 1,700/3,400	RPM
230V,	3 PH
Speeds (8)80-950	

Model 600B Part No. 6-325-005 \$6,56500

> AS LOW AS \$151.00/mo.

FEATURES:

- Foot pedal operated instant reverse switch for tapping.
- Power quill feed.T-slot table with
- coolant through.



16" Nova Viking **DVR Drill Press**

1 HP, 120V, 1 PH Motor

FEATURES:

 Digital Variable Reluctance (DVR) Direct Drive Technology with Adaptive
Control™ Software which works for you to produce optimum results in wood, metal, plastic and glass.

Intelligent speed selection and dial

Automatic electronic depth stop, quickly and accurately stops to the precise programmed depth.
 Electronic braking and forward/reverse.
 Convenient LED light and twin laser guide system.

Model 83705 Part No. 6-125-075 \$1,34900

SPECIFICATIONS:

Chuck Size	E/Q"
Drilling Capacity	5/8"
Swing	
Spindle Taper 2	
Speeds (Var.) 150-3,000 F	

COMPLETE WITH:

5/8" Drill chuck & key, firmware USB cable, knock-out wedge, adjustment wrench, and hex keys.



Click here for complete details.



18" Nova Voyager **DVR Drill Press**

1 HP, 115V, 1 PH

- Digital Variable Reluctance (DVR) Direct Drive Technology with Adaptive
 Control™ Software which works for you to produce optimum results in wood, metal, plastic and glass.

 Constant torque under load, depth and
- vibration sensors and emergency stop.
- Slow start pilot hole, tapping assist with chip breaking cycle and self start functions.
 Electronic braking and forward/reverse.

Model 58006

Part No. 6-125-076

SPECIFICATIONS:	
Chuck Size 5/8	3"
Drilling Capacity 5/8	3"
Swing 18	3"
Spindle Taper 2 M	Т
Speeds (Var.) 50-3,000 RPM	N

COMPLETE WITH:

5/8" Drill chuck & key, firmware USB cable. knock-out wedge, adjustment wrench. and hex keys



DVR with Adaptive Control™ Software

VOyager

12" Lever **Shearing Machine**

- Long handle provides plenty of shearing torque.

 • Ideal machine for shearing
- metal, sheet, steel, bars, and rods.

 Cuts up to 1/8" steel and stainless steel
- · Hardened and tempered blades.

Part No. 1-397-1463 Reg. Net Price \$213.84

SPECIFICATIONS:

 Blade Length
 12"

 Handle Length
 30"

 Net Weight
 54 lbs











13" x 40" Precision **Toolroom Lathe**

2 HP, 230V, 1 PH Motor

FEATURES:

- 13" swing x 40"
- between centers. 8 spindle speeds. 70-2,000 RPM.
- D1-4 spindle mount, 1-1/2" bore.
 Floor model with full-
- length rear guard.

Model GRIP-1340G Part No. 6-269-008 **57,200**00

With NEWALL NMS-300 Digital Readout Installed Part No. 6-269-008-N3 \$9,08000



16" x 40" Precision **Toolroom Lathe**

6 HP, 230V, 3 PH Motor

FEATURES:

- Large 2" spindle bore.
- 16" swing x 40" between centers
- 16 spindle speed,
- 45-1,800 RPM. D1-6 camlock spindle with 3-point bearing.

Model GRIP-1640GH Part No. 6-269-009 \$12,200⁰⁰

With NEWALL NMS-300 Digital Readout Installed Part No. 6-269-009-N3 \$14,08000



NEWALL NMS-300 2-Axis Digital Readout

14" x 40" Precision Toolroom Lathe

3 HP, 230V, 3 PH Motor

Model GRIP-1440G

Part No. 6-269-006 **\$9,200**00

With NEWALL NMS-300 Digital Readout Installed Part No. 6-269-006-N3 \$11.08000

SPECIFICATIONS:

Spindle Speeds (16)........... 45-1,800 RPM Thread Cutting Range

Inch (44).....4-112 TPI Metric (22)......0.45-7.5 mm

AS LOW AS \$211.60/mo. COMPLETE WITH:

Foot brake, 3- & 4-jaw chucks steady and follow rest, work light coolant system, and splash guard.

18" x 60" Toolroom Lathe



- -1/2 HP spindle motor, 12 speeds.
- D1-8 camlock, 3-1/8" spindle bore.
 Inch dials and leadscrews.
- Full length safety foot brake. Thread chasing dial.

Model GRIP-1860G

Part No. 6-269-014



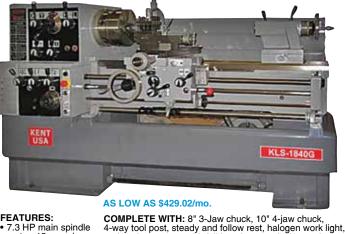
AS LOW AS \$436.92/mo.

COMPLETE WITH: 3- & 4-Jaw chucks, steady and follow rest, 4-way tool post, and coolant system with full length rear splash guard.

SPECIFICATIONS:

Swing Over Bed / Carriage 18" / 10-3/4" | Note |

High Precision Engine Lathes



FEATURES:

- 7.3 HP main spindle
- D1-8 camlock.
- 3.2" spindle bore.
- Solid one-piece
- gears and bedways.

 Centralized lube
- foot brake.
- · Inch dials and

- motor, 12 speeds.

- cast iron base. Hardened and ground
- system in headstock.
- Full-length safety
- leadscrews.

Model KLS-1840G (18" x 40")
Part No. 6-273-070

\$19,000⁰⁰

With NEWALL NMS-300 Digital Readout Installed Part No. 6-273-070-N3

\$20.73000

and coolant system with full length rear splash guard. Model KLS-1860G (18" x 60") Part No. 6-273-071

\$20,500⁰⁰

With NEWALL NMS-300 Digital Readout Installed Part No. 6-273-071-N3 \$22.400°°



Jaws 55 Ton **Punch Pressure** Ironworker

5 HP, 230V, 3 PH Motor

Hydraulic powered punching capacity with open tooling station, built-in stations for shearing plate and angle iron.

Model 55T Part No. 6-700-215

AS LOW AS \$345.68/mo.

SPECIFICATIONS:

1-3/8" Dia. -1/2" Plate Bar Shear Rounds/Squares1-1/8" Max. Angle Shear Size 3" x 3/8"



Call us for punches & dies and all the other available accessories for these versatile machines.



17" x 40" Heavy-Duty **Precision Lathe**

7-1/2 HP, 230/460V, 3 PH Motor

FEATURES:

- D1-6 camlock, 3-1/8" spindle bore.
 Centralized lube system in headstock.
 Speeds (12) 36-1,800 RPM.
- · Hardened and ground gears and bedways.

Model ML-1740T Part No. 6-273-064 \$**22,000**00

With NEWALL NMS-300 Digital Readout Installed

Part No. 6-273-064-N3 \$23.73000

AS LOW AS \$496.76/mo.





NEWALL NMS-300 2-Axis **Digital Readout**



NEWAL **DP-700 2-Axis Digital Readout**

Big 4" Spindle Bore, Clutch Spindle Drive and

4-Way Rapid Traverse.

COMPLETE WITH: 10" 3-jaw

chuck, steady and follow rest, 4-way tool post, halogen work



Large Bore Engine Lathes

10 HP, 230/460V, 3 PH Motor

SPECIFICATIONS:

Swing Over Bed

 Distance Between Centers
 50 / 80 / 120

 Spindle Speed (Range 12)
 36-1,600 RPM

 Spindle Nose / Bore
 D1-8 / 4.12"

 Threads Standard (32)
 2-28 TPI

 Threads Metric Pitch (22)
 1-14mm

 Tellsteak Or Will Tened Tenes
 6" / FMT

 Tailstock Quill Travel/Taper.....6" / 5MT

FEATURES:

- 10 HP main spindle motor, 12 speeds.
- Centralized lube system in headstock.
- Hardened and ground gears and bedways.
 D1-8 camlock, 4.12" spindle bore.
 Jog button, 4-way rapid traverse.
 Inch dials and leadscrews.

- Clutch style headstock. Safety foot brake.

COMPLETE WITH:

12" 3-Jaw chuck, 16" 4-jaw chuck, work light, 8" steady rest, 1-3" follow rest, 4-way tool post. thread chasing dial, full-length splash guard, and coolant system.

> **AS LOW AS** \$575.79/mo.

Model KLS-2260C (22" x 60") Part No. 6-273-067

\$**25,500**00 With NEWALL NMS-300 Digital Readout Installed

Part No. 6-273-067-N3 \$27.350⁰⁰ Model KLS-2280C (22" x 80") Part No. 6-273-068

\$26,500°°

With NEWALL NMS-300 Digital Readout Installed

6-273-068-N3 \$28.65000

Model KLS-26120C (26" x 120") Part No. 6-273-069

532,00000

With NEWALL DP-700 Digital Readout Installed Part No.

6-273-069-N \$37,600°0

22" x 120" Toolroom Lathe

SHATE OF

10 HP, 230V, 3 PH Motor

COMPLETE WITH: 3- & 4-Jaw chucks, steady and follow rest, 4-way toolpost, and coolant system with full length rear splash guard.



- 10 HP spindle motor, 12 speeds.
 D1-8 camlock, 4-1/8" spindle bore.
- Inch dials and leadscrews. Full length safety foot brake.
- Thread chasing dial.
- 2-way rapid traverse.
 Solid cast base.

Model GRIP-22120G Part No. 6-269-017

\$**27,750**00

AS LOW AS \$626,60/mo

Thread Cutting Range Inch (60).....2-112 TPI Metric (41)......0.1-14 mm

SPECIFICATIONS:



2 HP, 230V, 3 PH Motor

COMPLETE WITH: 6" x18" Permanent magnetic chuck, 1-shot lubrication system, and flood coolant system.

Model KGS-618M Part No. 6-273-003

> **AS LOW AS** \$276.00/mo.

SPECIFICATIONS:

Max. Distance Spindle to Table.. Spindle Speed 3,450 RPM Item Weight2,500 lbs.





3 HP, 230/460V, 3 PH Motor

COMPLETE WITH: 8" x 20" Permanent magnetic chuck, and flood coolant system with splash quards.

AS LOW AS \$541.92/mo.

FFATURES:

- 3-axis automatic with incremental downfeed and electronic auto crossfeed.
- Precision cartridge type direct drive spindle (3,500 RPM).
- Heavy cast iron base absorbs vibration.
- Automatic lubrication.
- Wheel Size: 8" x 1" x 1-1/4".



Model KGS-1020AHD Part No. 6-273-012 \$**24,000**00

3-Axis Auto Feed Surface Grinders



Model SGS-1230AHD (12" x 30" Cap.) 14" x 1-1/4" x 5" Wheel (5 HP, 230/460V, 3 PH) Part No. 6-273-020

Model SGS-1640AHD (16" x 40" Cap.) 14" x 2" x 5" Wheel (7-1/2 HP, 230/460V, 3 PH) Part No. 6-273-025

\$**48.000**00









SHOP SUPPLIES

General Purpose Maintenance Sock

3" Dia. x 4' Long

Highly absorbent sock for industrial maintenance. You can absorb most non-aggressive fluids, oil or water based. The sock "skin" allows fluids to pass through auickly to the absorbent fill inside.



1-835-706B Reg. Net Price \$95.81



PALMGREN

14" Horizontal **Roller Material Support Stand**

FEATURES:

A clamping mechanism on the column allows for quick and easy height adjustments.
Chrome-plated, 2" x 14" ball-bearing roller head is designed to smoothly move up to 2,000 lbs. of flat stock.
Locking screws provide added safety.

Made of heavy-duty

cast iron and steel. SPECIFICATIONS:

Weight 47 lbs.

Part No. 1-549-MSH14 Reg. Net Price \$202.00

R180



Machinery **Mounts**

LOW SERIES

FEATURES:

- Extra tough rigid design.Extra tough support screw.
- Complete range of sizes
- with long screw length. Solid finish quality rubber base.

Supplied with boits, nuts & wasners.							
Load Per	Pad Dia.	Pad Height	Bolt Dia.	Bolt Length	Part No.	Reg.	SALE!
Mount/lbs.	(D)	(H)	(mm)	(h)	1-915-	Net Price	
0-130	1-5/8"	9/16"	8	1-1/2"	-000B	\$5.60	\$5.04
70-220	2-3/8	11/16	10	3-1/4	-00B	10.28	9.25
180-300	3	13/16	12	3-1/2	-0B	13.44	12.10
300-700	3-3/8	1	12	3-1/2	-1B	16.19	14.57
700-1,200	4-5/16	1-1/8	16	4-5/16	-2B	19.50	17.55
1,200-2,000	5	1-3/16	16	4-5/16	-3B	25.55	23.00





Secure your loads with these quality tiedowns!



- Long Handle Ratchet
 18" Fixed End Length

- 30 ft. Standard Assembly Length
 Ultimate Strength 10,000 lbs.
 Working Load Limit 3,300 lbs.

LiftAll Code: 61002

Part No. 3-003-30001

Reg. Net Price \$45.98

Magnetizer-TITAN Magno.... Demagnetizer

FEATURES:

- To Magnetize: insert tool in and out of the "+" chamber.
- To Demagnetize: Insert tool in and out of the lowest step in the "-" chamber.
- If tool is still magnetized,
- repeat on a higher step. Size: 3.3" x 1.4" x 4.9"

Part No. 1-909-11145 Reg. Net Price \$3.26



BluSird Retractable Air Hose Reels

with 3' Lead-In Hose

REEL FEATURES:

20 gauge powder coated steel construction.

 Smooth auto-rewind with locking 12 point ratchet gearing system.

• L-Shaped base with groove

reinforcement ensuring a stable support.

• Heavy-duty spring vibration resistant mechanism.

Adjustable hose stopper and 4 non-snag rollers reduces hose abrasion. Complete with rubber gasket.

HOSE FEATURES:

- 40% Lighter than standard rubber hoses and as light as hybrids.
- 300 PSI working pressure with a 4:1 safety factor.

 Ultra light, super strong rubber resists
- abrasion and kinks.
- Constructed with high strength polyester braided reinforcement.
- Solid Brass fittings.

3/8" x 25' Hose Model: BBR3825

Part No. 1-838-100

3/8" x 50' Hose Model: BBR3850

Part No. 1-838-105

516098



1/2" HOSE REEL

1/2" x 50' Hose Model: BBR1250

3/8" HOSE REEL

Part No. 1-838-110

TASCO Nextera® Over-the-Head Earmuff



The most comfortable, highest powered muff type ear protector in the industry. Heavy weight, high band pressure and high cost are no longer necessary to get the best.

- FEATURES:
- 2 point suspension for even pressure distribution. Sewn, foam filled head pad for optimal comfort.
- Soft-Seal™ ear cushions provide maximum acceptance & comfort.
- NRR = 30, highest rated anywhere.
 Tested at NVLAP accredited laboratory.
- Meets CSA Class AL.

Part No. 1-700T-3006 Reg. Net Price \$29.66

CHECKMATE,



NitriShield Stealth Xtra **Disposable Gloves**

100 PER BOX

- **FEATURES:**
- Rolled cuff.
- 6 mil, 12" length.
- · Powder-free. · Ambidextrous.
- Black color hides soiling.
- Ambidextrous. 100% disposable black Nitrile.

 Textured finish. Industrial / food service grade.

Size	Part No. 1-711-	Reg. Net Price/Box	NOW!
Large	-6062L	\$17.80	\$15.13
Extra Large	-6062XL	17.80	15.13



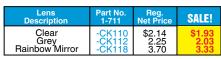


Safety Glasses

An MCR Safety Brand

FEATURES:

- Exclusive Duramass[®]
- scratch-resistant coating.
- Universal nose bridge. Strong, lightweight polycarbonate lens block 99.9% ultraviolet rays.
- Flexible bayonet temple design for a comfortable fit during long use.
- Near total seal of eye orbit assures the highest level of protection.





CLEAR









Welding

- · Designed to store and transport most MIG and plasma machines, shielding gas tanks
- and other welding equipment & accessories. Tilted top shelf allows access to welder controls.
- · Side hooks for torch and cable storage. Additional shelves for storing accessories.
- Heavy duty molded rear wheels.

Part No. 1-701-41197 Reg. Net Price \$132.14

GUARDAIR. Blind Hole® **Safety Air Gun** WITH 6" EXTENSION

Specifically designed to clean out blind holes in metal, wood, and plastic work pieces.

FEATURES:

- Delivers a high velocity jet of air into deep crevices and blind holes to flush out chips and dirt.
 Ergonomic, Classic+ pistol grip-style
- handle provides maximum user comfort. Durable cast aluminum body with hanging hook.
- · Safety air shield.
- 3/16" OD brass extension with 1/8" OD plastic stylus tip.

 • 1/4" FNPT inlet.
- Meets OSHA standards.





GUARDAIR, 1500 Gun Vac®

Serious cleaning power in the palm of your hands!



Great for all types of cleaning: Metal chips, plastic pellets, food crumbs, wood shavings, dirt and dust.

Gun Vac®, 9" Crevice Tool, & High Filtration Collection Bag.

Part No. 1-816G-1500

Reg. Net Price \$115.60



· Hardened stainless

brackets included.

CR2032 Battery

• Installation parts

and tool included.

steel beam. Double rail mounting

included

ALIGN Variable Speed **Power Table Feed**

FEATURES:

- Electrical and mechanical parts are made for easy maintenance.
- Design assures long trouble-free life.
 Special electrical relay protects against damage caused by power failure.

SPECIFICATIONS:

Motor 110V, 50/60 Hz., 1 PH Speed (4-160) Max. 200 RPM Max. Torque '..... 150 in./lbs.



Reg. Net Price \$484.00





Part No. 1-815-805

Reg. Net Price \$51.95



- IP54 protective rating: Moisture and dust resistance.
- Easy to read LCD display.

 • On/Off button.
- Incremental function.
- Auto shut off.
- Universal fit.

SPECIFICATIONS:

Range. .0-5"/125 mm Range.......0-5"/125 mm Resolution 0.0005"/0.01 mm/ 1/64" Accuracy......0.001



Pro Tram System

FFATURES:

- To use the Pro Tram simply lower unit to the table and adjust the head until both indicators read the same.
- Can be used with a sine bar or sine plate to adjust the head to precise angles.
- Calibration procedure accounts for any error introduced by worn collets.

 • Large 2.2" easy-to-read
- indicator faces.
- Body made from red anodized aluminum. Indicator Repeatability: 0.0002"
- Indicator Graduation: 0.001"

1/2" Shank

Reg. Net Price \$124.99

INCLUDES:

Manual Gage

Padded Case

Calibration Gage

Square the

and easily!

head of a milling machine quickly

/(ENNEDY 20" 7-Drawer **Machinists' Chest**

Signature Series



FEATURES: Vinvl cushioned.

- steel core top handle.
- 6 adjustable drawer dividers.
- Drawers and top till wool felt-lined.
 Two piece welded I-beam drawer

SHOP SUPPLIES

- slides hold up to 90 lbs. per drawer.
- Brown wrinkle finish.

Model 520

20-1/8" x 8-1/2" x 13-5/8" Weight: 35 lbs.

Part No. 1-823-00001 Reg. Net Price \$541.87

Mitutoyo Quill Kit With ABSOLUTE Encoder

FEATURES:

- Push button controls for
- inch/mm, zero-set and on/off.

 Easy to read LCD with resolution of .0005" (0.01mm). 0-5' travel inch/mm.
- Powered by a single SR-44 battery lasting about 1 year with normal use.
 SPC Output for data transmission to
- data processors or a remote display

Part No. 1-808-053906 Reg. Net Price \$356.00









COILHOSE Filter, Regulator, PRESULATOR, AND AUDICATOR

Heavy-duty filter, regulator, and lubricator trio assemblies provide valuable time savings when installed.

FEATURES:

- Compact assembly.Faster installation time.
- Gauge packaged uninstalled for installation on either side.
 Plastic bowl is standard on
- filters and lubricators.
- These units also come standard with a gauge.
- Standard on regulators is 0-125 PSI.



Pipe	Heavy-Duty Trios				
Size	Part No.	Reg.	SALE!		
(NPT)	1-816-	Net Price			
1/4"	-8882AAG	\$241.51	\$205.28		
3/8	-8883AAG	241.51	205.28		





OOLROOM ACCESSORIES



PRECISION BRAND. 20 Pc. Steel Poc-Kit Feeler

FEATURES:

 Each blade marked with thickness.

 Rounded ends and smooth edges for safety.



INCH 1/2" x 5"

Sizes (1 Each): .001", .0015", .002", .003", .004", .005", .006", .007", .008", .009", .010", .012", .014", .015", .016", .018", .020", .022", .024", & .025"

Part No. 1-958-19740 \$3423 Reg. Net Price \$38.03

METRIC 12.7 x 127mm

Sizes (1 Each): .05, .10, .15, .20, .25, .30, .35, .40, .45, .50, .55, .60, .65, .70, .75, .80, .85, .90, .95, & 1.00mm

Part No. 1-958-09740 \$ Reg. Net Price \$78.38



One-Handed **EZS Clamps**

Throat Depth 3-1/2"

FEATURES:

Single-handed clamping and spreading of workpieces with up to 445 lbs. clamping force.

 EZS extend throat depth right to the outside edge of the pads - power spread across the entire pad.

 The upper section can quickly convert from clamping to spreading without tools.

• Ergonomic handle positioned behind

the rail, enabling a powerful grip.

 Soft pressure caps optimize material protection and secure clamping.



Clamping Capacity	Spreading	Approx. Weight (lbs.)	Part No. 1-820B-	Reg. Net Price	NOW!
6"	6-1/2" - 14"	1.20	-EZS15	\$22.10	\$19.89
12	6-1/2 - 20	1.80	-EZS30	24.31	21.88
18	6-1/2 - 25-3/4	2.00	-EZS45	27.63	24.87
24	6-1/2 - 31-3/4	2.30	-EZS60	30.91	27.82
36	6-1/2 - 43-1/2	2.50	-EZS90	36.49	32.84



Toggle Clamps

Supplied with spindle assembly.

VERTICAL HANDLE HOLD-DOWN

Model	Overall Height	Under Bar	OAL	Capacity (lbs.)	Part No. 1-910-	Reg. Net Price	SALE!
201-U	2-7/8"	5/8"	2-1/8"	100	-52010	\$16.73	\$14.72
202*	3-3/4	15/16	2-9/16	200	-52020	17.73	15.60
202-B	3-15/16	1-1/8	2-9/16	200	-52025	23.35	20.55
202-U	3-15/16	15/16	2-9/16	200	-52026	17.38	15.29
207-TUL	3-7/8	1-1/4	5-13/32	350	-52077	42.06	37.01
207-U	5-1/2	1-1/4	3-7/8	500	-52070	22.72	19.99
207-LB	7-31/64	1-1/2	5	500	-52086	31.41	30.28
207-USS	5-3/4	1-1/4	4-3/8	400	-52079	58.76	51.70
210-U 210-TU 247-S 247-U 267-U	7-1/2 5-3/8 8-11/16 8-11/16 12	1-11/16 1-23/32 2 2 2 3-1/4	5-1/2 5-7/8 7 7 8-13/16	750 600 1,000 1,000 1,200	-52100 -52102 -52471 -52470 -52670	35.46 59.22 64.04 53.85 86.49	31.20 52.11 56.36 47.39 76.11

-U "U" Shaped Holding Bar *Supplied with spindle assembly.



PRECISION 15 Pc. 6" x 12" Shim Stock Assortment

This handy shim stock comes ready packaged in dispenser cartons for easy use. Saves time, waste, and bother. Precision-gauged for accuracy.

BRASS SHIM STOCK

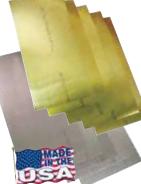
Sizes (1 Each): .001", .0015", .002", .003", .004", .005", .006", .007", .008", .010", .012", .015", .020", .025", .031"

STEEL SHIM STOCK Sizes (1 Each): .001". .0015".

.002", .003", .004", .005", .006" .007", .008", .010", .012", .015", .020", .025", .031"

Part No. 1-953-SF15 Reg. Net Price \$97.28

Part No. 1-955-AF15 Reg. Net Price \$87.90



KEN FORGING

"U" Clamps





Drop Forged Carbon Steel Natural Finish

			Size of Slot		Approx.			
Length	Width	Thickness	Width	Length	Weight (lbs.)	Part No. 1-901-	Reg. Net Price	SALE!
4" 6 8 10 12	1-3/4" 2 2-3/8 2-3/4 3-1/4	3/4" 7/8 1-1/8 1-1/4 1-3/8	11/16" 11/16 13/16 15/16 1-1/16	3-1/2" 5-1/2 7-3/8 9 11	1 2 4 6 11	-064 -066 -068 -110 -112	\$6.89 11.95 18.74 29.93 41.22	\$5.86 10.16 15.93 25.44 35.04

(15) 3/16"

(20) 3/8" (15) 7/16"

(25) 3/4"

(20)7/8'

(15) 15/32"

300 Pc. Snap Ring Assortment

SET INCLUDES: Internal

- External (20) 1/8" (10) 5/32" (25) 1/4"
- (15) 5/16" (25) 1/2" (15) 9/16"
- (20) 5/8" (15) 13/16" (15) 1" (15) 1-1/16"
- (10) 1-1/8" (5) 1-1/4"



Part No. 1-928-45212 Reg. Net Price \$12.00



Supplied in re-sealable plastic case



150 Pc. Pin Hitch **Assortment**

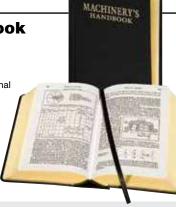


- (42) 3/32" x 1-3/16" (30) 5/64" x 1-5/16" (25) 5/64" x 1-9/16" (25) 7/64" x 1-5/8" (20) 9/64" x 1-3/4" (8) 5/32" x 2-15/16"
- Part No. 1-928-45210 Reg. Net Price \$11.55



In commemoration of our 125th Anniversary, we are proud to present the Collector's Edition Replica of the original first edition of the Machinery's Handbook, published in January, 1914. For virtually its entire life in print, it has been a worldrenowned reference and "the Bible' of the metalworking and mechanical industries.

1914 First Edition Replica Part No. 1-961-001 Reg. Net Price \$89.95





Machinist Jack Set

FEATURES:

- Range: Min: 3", Max: 4".

 Lifting capacity: 1,000 lbs.

 1-1/2" jack base for added stability.

 Individual jacks consist of a heavy, steel cast base with adjustable steel screw and tilting swivel head, with a
- lock nut for permanent positioning.

 Set consists of 2 machinist jacks supplied in a shop hardened case.

rart No. 52-104-025 Reg. Net Price \$23.42





Call: 1-800-521-1740

Fax: 1-800-322-4292

Web: KBCTools.com



PRECISION Tool Black® Liquid

FEATURES:

- Fast, inexpensive alternative to black oxide.
- Imparts a tough, dull black protective finish to ferrous metal parts.
- Ideal for prototypes, repair parts, and general machine work.
- No special ventilation required.

Squeeze Action, Oil-Based

White

Black

Blue

Yellow

Green

Neon Orange

Nuclear White Metallic Gold

Metallic Silver

Neon Yellow

- One quart of Tool Black® covers 50 to 75 square feet, however coverage varies with application technique.

 • Prevent® is ozone safe.



1 Quart Part No. 1-958-45110 Reg. Net Price \$102.12 \$**76**59



Equipped with an innovative self-priming pump, you can connect and go quicker than ever. The pump's flexible impeller and powerful pump move water at up to 480 gallons per hour, generates up to 18 ft. of lift and produces up to 75 ft. of head height.

FEATURES:

- · Lift: up to 18 feet.

- Head height: up to 75 feet.
 Self-priming; connect and go.
 Compatible with all M18™ batteries.

SPECIFICATIONS:

Model 500

Tool Dimensions (lxw) 13" x 5.75' Inlet connection 3/4" brass Outlet connection3/4" brass Voltage

Part No. 1-828-2771-20 **22q**00



Fine Metal Nib Paint Markers

Press tip and squeeze barrel to draw lines, mark, write, and color code parts.

-1323

-1324

-1326

-1500

-1600

-1900 -3000

-301 -3012

FEATURES:

- Water-resistant.
 Quick-drying.
 Heavy duty, 1.4 mm
- stroke width.
- Marking range:
 -50 F° to 150 F°.

CHOICE



- Completely portable.4' nylon braided coolant line.
- 5/16" Diameter x 6" Long brass nozzle.
- Output from each nozzle is regulated by a single knob on the control.
- Mist spray may be turned on or off instantly to coordinate with the cutting cycle, and the spray mix made lean or rich as needed.

INCLUDES:

- (1) Model 100N mist coolant system with 1 gallon stainless steel tank.
- Adjustable magnetic nozzle positioner.
 Sample formula 77 concentrated coolant.

SYNTHETIC

(1) 1 gallon formula 78 concentrated coolant.

Part No. 1-437-500

Reg. Net Price \$333.00





Constructed for industrial applications, these steel pump oilers have double seamed or drawn steel bases. Spouts are removable from plated top cap & handle assembly. Delivers a drop or a steam of oil and stays primed for instant use. Powder coated copper bronze finish with zinc plated top cap.









Mist or Flood **Coolants**

Formula 77 for **Tougher Service**

For mist and flood cooling. Highly recommended where tougher machining conditions require greater lubricity, where material is very abrasive, or tool pressure is exceptionally great.

Formula 78 for Light **Duty Service**

For Mist Systems. Chemical base mist coolant that dissolves in water to a clear solution. Meets OSHA standards. Clings to the tool to reduce friction.

1 Gallon Plastic Bottle Part No. 1-437-771 Reg. Net Price \$62.50

1 Gallon Plastic Bottle Part No. 1-437-781 Reg. Net Price \$59.75



THERMAPLEX **Aqua Bearing Grease**

Specially formulated bearing grease which withstands the effects of running water and provides excellent, long lasting lubrication even when fully submerged in fresh or salt water. It resists water washout and provides excellent corrosion resistance. Reduces wear and grease consumption by extending re-lubrication intervals.

Water Resistant

Part No. 1-444-70514 Reg. Net Price \$31.01 \$**26**36



COOLANT KING™

SOLUBLE OIL METALWORKING FLUID

FEATURES:

Designed for all cutting and turning applications where a soluble oil is desired.

LUBRICANTS INC.

- An excellent choice of machining materials such as Titanium, Iconel 718, Rene 41, Waspalloy, Cobalt based Super Alloys, Aluminum, Stainless Steel and other Aerospace materials.
- Exceptionally good bacteria and mold control ensure a long life and minimize the use of other additives.
- Outstanding lubricity and corrosion control with EP additives provide long tool life.

Part No. 1-123-185 Reg. Net Price \$53.42





WATER SOLUBLE!

COOLANT KING

Zebra

Economy Drum Mixer

The easiest way to start automatic mixing at your drum. Most effective for smaller shops where constant concentrations is required.

FOR MIXING & DELIVERING METALWORKING FLUIDS.

FEATURES:

- 30 day warranty
- 48" discharge tube.
- 14 metering tips included for concentrations of 1% to 20% (ratios 4:1 to 99:1).
- Maximum viscosity of 500 SUS
- Check valve for precise mixing.
- Works on barrels or totes.
- 4.8 gallons per minute capacity.
 In/out 1/2" NPT fittings.

Model MIX05120

Part No. 1-122-030

Reg. Net Price \$218.00



LittleGIANT, NO-KORODE Submersible Pump

FEATURES:

- Highly corrosion-resistant pump motor housing of metal and glass-filled
- polymer which aids in heat dissipation. Oil-filled may be used in vertical or horizontal applications.
- Nylon impeller and pumping head with smooth inlet and 1/4" male NPT outlet.
- Equipped with a filter screen which is easily removed for cleaning.
- Must be operated submersed. 210 gallons per hour at 1'. Shut off at 10.2'. 4.4 PSI.



For mild acids, alkalis, and hard water.

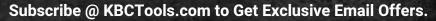
Model NK-1 Part No. 1-440-526003 Reg. Net Price \$189.54













GENERAL® Carbide Point Scriber



FEATURES:

- Screw chuck for reversing tungsten carbide point when not in use.
- Knurled aluminum handle provides maximum control and comfort.
 Tungsten carbide tip marks hard materials including hardened steel, stainless steel, ceramics and glass.
- · Replaceable point and convenient pocket-clip.
- Overall Length: 5-5/16"

Model 88

Part No. 1-805-088 Reg. Net Price \$7.25



Replacement Point Part No. 1-805-88P ONLY! \$4.10



13 Pc. Hex-L Long **Kev Set**

FEATURES:

- Made with Eklind® Alloy Steel. · Heat Treated for optimum
- strength and ductility.
 Finished with Eklind® Black
- Finish to resist rust.
- · Plastic holder firmly retains
- each key in a size marked hole.

 Key holders are color-coded, red for inch sizes and blue for metric sizes.

SET INCLUDES:

• Sizes - .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", and 3/8".







Starrett Angle Meter

FEATURES:

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

Starrett #AM-2

Part No. 1-855-36080 Reg. Net Price \$21.20



SK Adjustable Wrenches

FEATURES:

- Adjustable wrenches provide a wide capacity range in a single tool when it is impractical to carry a full set of wrenches.
- The finish on the adjustable wrench is a cobalt-based coating for rust and corrosion protection.

Size	Capacity	Length	Part No. 1-931-	Reg. Net Price	SALE!
4"	0.50"	4.00"	-8004	\$39.80	\$33.83
6	0.75	6.25	-8006	34.81	29.59
8	0.94	8.06	-8008	34.57	29.38
10	1.13	10.13	-8010	49.28	41.89
12	1.31	12.25	-8012	76.42	64.96
15	1.63	15.00	-8015	108.09	91.88

12 Pc. Screw Extractor Set

For removing broken screws, bolts, studs, and pipes. Sizes: #1 to #6.

Part No. 1-397-6718

Reg. Net Price \$19.95



wiha 5 Pc. Round Blade Screwdriver Set

with Wiha-SoftFinish® Handle

Our Most Comfortable Industrial Drivers Ever!

FEATURES:

- Handle molded on to blade for a permanent bond.
- Safe molded on Cushion Grip, won't slide off.
- Shafts are anti-corrosion hard chrome plated.
- Ergonomic shape reduces hand fatigue.
- Special hardening for longest tool life.
- Achieve more torque with less force.
- Micron vapor chromed non slip tips.
 Precision machined for exact fit.
- Lifetime Guarantee.

- **SET INCLUDES:** Slotted: 1/8" x 4", 5/32" x 4", 1/4" x 6".
 Phillips: #1 x 3", #2 x 4".

Part No. 1-939-30295 Reg. Net Price \$48.15

MADE IN GERMANY

3 Pc. Expanding Transfer Punch Set

FEATURES:

- Compact set of 3 takes the place of numerous individual solid punches. Each punch expands within its range
- to pick up the true center of holes from 1/4" to 11/16" dia. By turning the knurled head, the punch body
- expands to the perfect fit in the bottom of the hole.



Part No. 8-408-058 Reg. Net Price \$36.50

CRESCENT ...

9-3/4" MetalMaster® **VISS** Compound **Action Snips**

- Self-opening action for fast, effortless feed
 Non-slip serrated jaws are made of wear-resistant molybdenum steel.
- Cuts low carbon cold rolled steel.
- Convenient, protective safety latch.
 Non-slip, textured grips.





Makes manual sharpening faster, easier and more precise than ever!

- FEATURES:
 Tri-brasive™ rod quickly indexes between coarse and fine diamond and fine ceramic stone. Tri-Brasive™ includes coarse 320 & fine 600 grit
- diamond plates and a fine grit ceramic stone.
- Removable v-block clamp secures knife safely and consistently.
- Sharpening angle can be easily adjusted from 15°- 30°, in 1° increments.



Model #WSBCHPAJ Part No. 1-817-40303

TEKTON

Micrometer Torque Wrenches

FEATURES:

- ±4% Accuracy: Calibrated according to the ASME B107.300-2010 standard.
- Reversible ratchet head. · Pivot pin enables the wrench to
- pivot seamlessly.

 Drives in both directions and measures
- torque in the clockwise direction. High-contrast, easy-to-read scale is marked with in.-lb. and Nm units.
- Locking Nut locks the torque setting in place while you are using the wrench.



20-200 in./lbs.

1-909-2432

Price \$70.60

Part No.

Reg. Net

Torque Range: 10-150 ft./lbs. Part No.

Reg. Net

Price \$70.60 \$**60**01

Part No. Reg. Net Price \$70.60

10-80 in /lbs



Call: 1-800-521-1740

Fax: 1-800-322-4292

Web: KBCTools.com

rill Precision Drill ctor Bit Sharpener

Restore a full range of bits to like-new sharpness in less than 60 seconds!

180 Grit Wheel.

- User's Guide.

- Custom points from 115° to 140°.
 Sharpens 3/32"-3/4" high-speed steel, masonry, carbide, and TiN-coated bits.
- Creates split-point bits from standard bits. Adjustable Material Take-Off (MTO) - Fine-tune the sharpening process, touch-up a slightly dull bit, or deep grind for a heavily damaged bit.
- Quick Change diamond sharpening wheel is long-lasting and easy to replace after several hundred sharpenings (no tools needed).
- E-Z Align System[™] for correct sharpening alignment.



Model DD750X Part No. 1-817-DD750X Reg. Net Price \$159.95

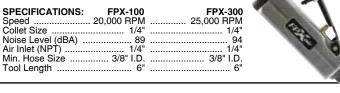
FP air 1/4" Mini Die Grinders

- High polished aluminum housing design.
- Precision collet for secure accessory retention.
- Safety lock-off lever prevents accidental start-ups.
- Rear exhaust.

Model FPX-100 Right-Angle Part No. 1-829-900 Model FPX-300 Straight

Part No. 1-829-902 Reg. Net Price \$51.20 Reg. Net Price \$38.40

FPX-100 Speed 20,000 RPM 25,000 RPM





SPECIFICATIONS:

3/8" Air Ratchet

FEATURES:

 Built-in forward/reverse switch in ratchet head.

High polished aluminum housing design.
Reliable single pawl ratchet head design.

Model FPX-500

Part No. 1-829-904 Reg. Net Price \$55.20

SPECIFICATIONS:

Square Drive	3/0
No Load Speed	. 200 RPM
Max. Torque	55 ft./lbs.
Air Consumption	4 CFM
Air Inlet	1/4" NPT
Air Pressure	90 PSI
Min. Hose Size	3/8" ID
Tool Length	10.25"

0/0"





M12™ Cordless Rotary Tool

This compact, portable and powerful cutoff solution offers up to 10X longer life and 10% more speed compared to competitors. Able to use for thousands of cutting, grinding, sanding and polishing solutions. Indispensable for close-quarter cutoff and grinding applications. Grinder-style exhaust ports and front-bearing protection.

FEATURES:

- Powerful 12-volt motor delivers 5,000-32,000 RPM for superior speed and performance under load.
- 1/8" Collet accommodates all 1/32" 1/8" shank accessories for thousands of applications.
- Variable-speed dial offers fluid control.
 Compact, lightweight (1.3 lbs.) design.
 Compatible with M12™ batteries.





1-828-2460-20 SPECIFICATIONS:

Motor	12V
No Load Speed .	5,000-32,000 RPM
	1/8"
Tool Length	Q"

ARCAT Composite Extended Straight Die Grinder

Rear Exhaust



Model 6210 Part No. 1-830-040

SPECIFICATIONS:

Motor 0.5 H	ŀΡ
Free Speed 22,000 RP	
Collet Size1/	
Average Air Consumption 4.2 CF	M
Air Inlet 1/4" NF	
Rec. Hose Size 3/	
Tool Length 13.	5"

EVOLUTION 1-5/8" Magnetic Drill



Simple to use coolant system ensures

Extended head to reach in tight spots Patented quiet tuned exhaust (82 dBA.)
Superior steel grade internal

Superior steer grade in the individual seems for longer life.
 Feather trigger for better speed control.
 Ergonomically designed housing.

Most comfortable trigger in the industry.

- that the workpiece stays cool while drilling.

 Textured, Tri-spoke spindle handle gives you ultimate control when lowering the drill.

 Ultra-smooth dovetail slides offer
- smooth and precise operation.
- Stage magnet allows you to configure the machine so you get a perfect result.
 Supplied with an 8 ft. rubber power cord.

INCLUDES:

- Keyed Chuck
- 3 Piece Handle. Chuck Adaptor. • (4) Hex keys.
- Chuck Key.
- Cooling Fluid Bottle & Tube. Safety Guard · Instruction Manual.
- & Fixing Screws.Safety Strap.

Safety Strap.	Carrying Case.
SPECIFICATIONS:	

OI LOII IOATIONO.	
Max. Annular Cutting C	Capacity 1-5/8
Drill Capacity	
Max. Cutting Depth	2'
Min. Plate Thickness	3/8'
Cutter Shank	3/4'
Magnet Dimensions	1-5/8" x 3-1/2" x 7-1/8'
Drill Travel	11-1/2'
Magnetic Adhesion	2,860 lbs./
No Load Speed	450 RPM
Motor	

Model EVOMAG42 Part No. 1-827-425K \$**649**00 \$143.00 Value!

FREE ®6 Pc. **Annular Cutter Set**

INCLUDES:

- (1 Ea.) 7/16, 9/16, 11/16, 13/16, 15/16, & 1-1/16" at 1" Depth.
 (2 Ea.) 1/4" x 3" OAL Pilot.

M12 FUEL™ Installation **Drill/Driver Kit**

The M12 FUEL™ Installation Drill/Driver Kit provides you with a 4-in-1 drilling and driving solution that is purposefully designed to reach uniquely challenging locations. The modular drill/driver is equipped with a POWERSTATE™ Brushless Motor. delivering you with 1,600 RPMS and 300"/lbs of torque. This provides you with the necessary power for installation applications, especially in electrical, cabinet installation, MRO, HVAC, automotive, and remodel applications.
The installation drill/driver features
REDLINK Plus™ Intelligence, protecting
your tool from overloading or overheating.

FEATURES:

- 4-in-1 dedicated solutions.
- · Each attachment connects in 16 different
- positions for access at almost every angle.

 1/4" Hex, 3/8" Chuck, and Offset can attach to the right angle for additional
- drilling or fastening needs at a 90°.
 Magnetic bit holder holds multiple bits on board to save time when switching accessories.
 Inline grip allows for maximum tool control
- and easier access to hard to reach places. Lightest, most compact: only 5.12" in length and 2 .lbs with battery attached, allowing for easier
- access in tight spaces and less user fatigue.

 Compatable with all M12™ batteries.



Part No. 1-828-2505-22 **29**00

INCLUDES:

- (1) M12 FUEL™ Installation
- (1) M12 FURTHER INStallation
 Drill/Driver (Tool-Only).
 (2) M12™ REDLITHIUM™
 CP2.0 Battery.
 (1) M12™ Lithium-ion Battery Charger.
- Right Angle Attachment.

 Offset Attachment.
- 3/8" Metal Chuck Attachment. 1/4" Hex Attachment.
- Compartmentalized Contractor Bag.
- (1) Belt Clip.

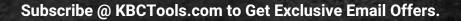
SPECIFICATIONS: Chuck Size ...











SHOP WHENEVER, WHEREVER FROM THE CONVENIENCE OF YOUR DEVICE



Download the KBC Tools Mobile App TODAY!







Milwaukee PACKOUT™ **Rolling Tool Box**

Fully Customize Your Storage! Build your system in any configuration that works for you.



Part No.

1-828-48228426

FEATURES:

- 9" All-Terrain wheels.
- IP65 rated weather seal. Metal reinforced corners.
- · Metal reinforced locking point.
- Interior organizer tray.Heavy duty latches.
- · Industrial grade extension handle.
- Modular connectivity with ALL PACKOUT™ components.

- Mounting location for the ONE-KEYTM TICKTM.
 Dimensions: Exterior 22.1" x 18.6" x 25.6" Interior 19.1" x 14.6" x 13.9"



24/7 All Tools...

pick up your order anytime!

24/7 PICK-UP

outside our KBC Michigan location. Just order during regular business hours and

Your tools... your time.

LOCKERS

Check out the big red lockers

All The Time.



VISORGUARD

- 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. Can be installed in minutes on CNC mills,
- conventional milling machines and others
- Special spring-loaded shaft makes shield stay put no spring back.
 Wing-shaped shield protects workers at adjacent machines.

Shield Size - 16" W x 8" H Flexbar Arm - 10" Length

Part No. 1-820-13055 Reg. Net Price \$219.50

Provides complete protection between the cutting tool and the operator's eyes!



INCLUDES: Mounting Bracket, Flexbar and All Hardware Including Mounting Hole and Thumbscrew for Attaching Coolant System.

PALMGREN **Bench Grinder**

1/3 HP, 120/140V, 1 PH Motor

For general purpose grinding including sharpening, shaping, deburring, stock removal, and cleaning of rust and scale.

FEATURES:

- Wheel Diameter: 6"
- Maximum Speed: 3,450 RPM.
 Arbor Size: 1/2".
- Large cast aluminum tool
- rest tilts for angle grinding. Heavy-duty construction with powerful,
- long-life motor for use all day, everyday
- Dust collection hose on #82081 (2-1/2").
- Click here for complete details.



INCLUDES:

- (1) 36 Grit & (1) 60 Eyeshields. Grit Grinding Wheel. Spark Arrestors.
- Power Cord

Part No. 1-549-82061

Reg. Net Price \$191.00

<u> 4 Locations to serve you!</u> Showroom Hours: Monday to Friday 8am - 5pm



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6300 18 Mile Rd.

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Indexable Turning Tool Sets

Tool holder sets save time & money! Have the right style holder on hand.

FEATURES:

- Ready to use.
- No grinding.
 No tool resetting.
- Purchase the shank once, index the cutting edge from then on.

- Versatility of cutting in any direction.
 Uses TT Style (7° positive rake) inserts.
 Built-in chip breaker groove.

- Positive rake cutting action.
- Different radii available.



SETS INCLUDE:

5 Tools in Styles – TAR, TAL, TBR, TBL, & TE.

Set No.		1-254-	Net Price	SALE!
ST- 6	3/8"	-200	\$92.07	\$59.85
ST- 8	1/2	-205	97.31	63.25

INSERTS NOT INCLUDED.



- A flip of the tab and the pliers change between internal and external applications.
- · Adjustable stop on the jaw allows you to turn clockwise to reduce jaw opening and counter-
- clockwise to increase jaw opening. Comfort grip made of low-temp, high-impact material providing extra durability.

1/8" to 1" External and 1/4" to 1" Internal

Model 1421-S Part No. 1-820-330



With hex wrench for stop adjustment and tip change in tip kit pouch.







Replacement Tip Kit Part No. 1-820-331 \$9.05



1-800-521-1740 1-800-322-4292

