

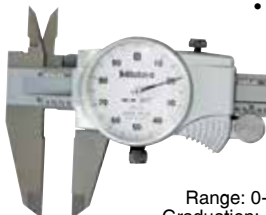
SALE

KBC

TOOLS & MACHINERY

Mitutoyo

Dial Caliper
Series 505



FEATURES:

- New face for easier readability.
- Measures OD, ID, depth, and steps.
- TiN coating on sliding surface to increase wear resistance.
- New dial movement for ultra smooth sliding & high shock protection.

save 20%

Supplied in fitted plastic case.

Range: 0-6"
Graduation: .001"

Part No. **1-808-505742**
Reg. Net Price \$148.00

NOW ONLY! \$118⁴⁰

Range: 0-12"
Graduation: .001"

Part No. **1-808-505746**
Reg. Net Price \$346.00

NOW ONLY! \$276⁸⁰

WHITE
FACE

STAINLESS
STEEL

KENNEDY 8-Drawer 26" Machinists' Chest

FEATURES:

- Heavy duty steel plated side handles.
- Two piece welded I-beam drawer slides hold up to 90 lbs.
- Drop front panel adds security.
- 6 adjustable drawer dividers.
- Wool felt-lined drawers.
- Weight: 44 lbs.



Model 526
26-3/4" x 8-1/2" x 13-5/8"
Brown Wrinkle Finish

Part No. **1-823-00002**
Reg. Net Price \$644.79

NOW ONLY! \$548⁰⁷



LOCTITE 243™ Threadlocker

Medium Strength / Blue
Primerless / Oil Tolerant

Versatile, medium strength liquid threadlocker. Engineered to cure consistently on a variety of metals, despite minor surface contaminants. Works on steel, stainless steel and most plated fasteners. Tolerates thread lubrication, anti-corrosion and protection fluids. Can be disassembled using standard hand tools.

FEATURES:

- Upgraded temperature resistance - up to 360°F.
- Oil tolerant curing on as-received fasteners without cleaning.
- Primerless performance on both inactive and active metals.

Size	Part No.	Reg. Net Price	SALE!
10 ml Bottle	1-444-24077	\$17.98	\$15.28
50 ml Bottle	24078	57.48	48.86



AngLock® D-Series Vises



Model D-810
Shown



FEATURES:

- AngLock® design assures the movable jaw does not lift.
- Matching bed heights within $\pm 0.001"$ at additional cost.
- Standard bed height of $\pm 0.001"$.
- 80,000-PSI ductile iron body.
- Hardened vise bed.
- Hardened jaw plates.
- Semi-hard steel screw.



Model D-40
Jaw Width: 4"
Jaw Opening: 3-7/8"
Weight: 32 lbs.

Part No. **1-5721-040**
Reg. Net Price \$921.18

SAVE \$125+
NOW ONLY! \$795⁰⁰

Model D-810
Jaw Width: 8"
Jaw Opening: 10"
Weight: 158 lbs.

Part No. **1-5721-080**
Reg. Net Price \$2,674.14

SAVE \$370+
NOW ONLY! \$2,300⁰⁰

Model D-100
Jaw Width: 10"
Jaw Opening: 9-3/4"
Weight: 300 lbs.

Part No. **1-5721-100**
Reg. Net Price \$5,608.50

SAVE \$775+
NOW ONLY! \$4,830⁰⁰



16" x 20" Combo Lathe/Mill

(2) 3/4 HP, 110V, 1 PH Motor

Model **KC-1620CLM**

Part No. **6-125-065**

\$2,999⁰⁰

2 FULL YEAR WARRANTY

SPECIFICATIONS:

Distance Between Centers 20"
Swing Over Bed & Carriage 16-1/2" / 11-1/2"
Spindle Bore 1-1/8"
Cross Slide Travel 8"
Lathe Spindle Speeds 7 (160-1360 RPM)
Thread Cutting Range 36 (4-120 TPI) 22 (0.2-6mm)
Automatic Feeding Range 0.002-0.014" / 0.05-0.35mm
Max. Distance, Spindle to Table 12"
Drilling Speeds (16) 125-3,000 RPM
Weight 615 lbs.

COMPLETE WITH:

- 5 Cutters
- 1/2" Drill Chuck
- 5"- 3 Jaw Chuck
- Tool Box with Adjusting Tools
- Imperial & Metric Change Gears
- Thread Chasing Dial Indicator
- MT #3 & MT #4 Dead Centers
- Steady & Follow Rest
- Quick Change Toolpost with 1/2" Capacity

Major Credit Cards Accepted:



Get Your KBC Catalogue!

See page 2 for details.



WEB:

KBCTools.com

PHONE:

1-888-KBC-TOOL

FAX:

1-800-668-5615

PHONE HOURS: Mon-Fri. 8am - 8pm, EST / FAX ORDERS 24/7

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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.

FREE SHIPPING.

Orders over \$375.00 (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.

* Excludes Machinery & Non-Stock Items.



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.

PRICING:

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.

OOPS!:

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

ALL METAL... ALL THE TIME™

24/7 All Tools... All The Time.

24/7 PICK-UP LOCKERS



Check out the big red lockers outside our KBC Mississauga location. Just order during regular business hours and pick up your order anytime!

Your tools... your time.



GET ONE TODAY!

KBC Volume 52 Master Catalogue

Over 860 Pages of our Best Products PLUS thousands of New Items added!

To Request a Copy

Call 1-888-KBC-TOOL or go to KBCTools.com



CRESCENT

148 Pc. Professional Tool Set

FEATURES:

- Limited lifetime guarantee.
- Chrome vanadium screwdrivers and 1/4", 3/8", 1/2" drive ratchets & sockets.
- Custom fitted carrying case included.

Part No.

1-552-CTK148MP

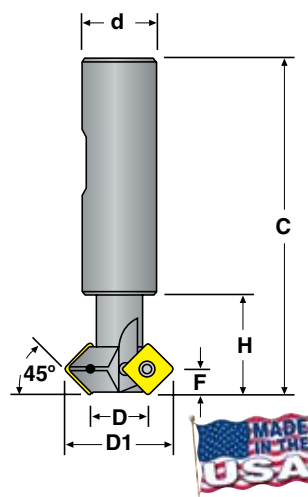
Reg. Net Price \$229.63

\$138⁹⁵

save over **40%**



View a Detailed list of Set Contents at KBCTools.com



DORIAN TOOL

Indexable Double 45° Chamfer End Mills

FEATURES:

- Positive inserts, 15° clearance.
- High rate of material removal.
- Torx screw locking system
- Four cutting edges.

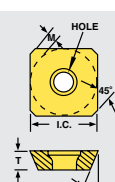
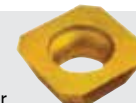
TOOL ANGLES:

Cutting Rake	+15°
Axial Rake	0°
Radial Rake	+3°

SDHW Inserts

Grade DASP35B PVD-TiN-TiAlN -

Multi layer coating with high-lubricity factor and wear resistance properties used in wet conditions. For general purpose milling of carbon steel, alloy steel & annealed tool steel, with medium to high SFM max. working temp. is 1650° F.



Insert Style	I.C.	T	M	Hole Dia.	DASP35B		
					Part No. 1-2866-	Reg. Net Price	SALE!
SDHW-090308-EN	.375"	.125"	.065"	.173"	-009	\$22.77	\$19.35

Tool Number	C	D	D1	d	F	H	No. Inserts	SDHW Gage Insert	Part No. 1-286A-	Reg. Net Price	SALE!
C45-112-SD09-075	3-3/8"	0.625"	1-1/8"	3/4"	.230"	3/4"	2	090308	-115	\$183.33	\$155.83
C45-150-SD09-100	3-1/2"	1.040"	1-1/2"	1"	.230"	1"	3	090308	-120	208.63	177.34

All Online Orders up to 50 lbs.

\$8⁹⁵
FLAT RATE
SHIPPING

FREE SHIPPING
ORDERS OVER \$375.00*

* Some restrictions may apply.



3 in 1 Combination Jobbers Drill Set

118°
POINT



RIGHT HAND
HIGH SPEED STEEL

Jobbers length drills are designed to perform in a wide variety of normal conditions and in a broad range of materials in both machine and portable drilling.



1/16" to 1/2" by 64ths,
No. 1 to No. 60 and A to Z
Part No. **1-001-0115**
Reg. Net Price \$102.30

\$81⁸⁴



TUFFCUT GP 3 Flute TiN Coated Center Cutting Solid Carbide End Mills SERIES 116

General purpose
designed for
aggressive milling
of most materials.

NEW!



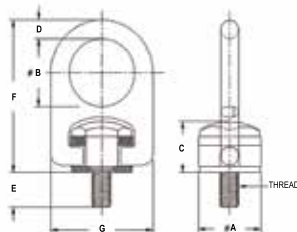
Size	Shank Dia.	Flute Length	OAL	Part No. 5-100-	Reg. Net Price	SALE!
1/8"	1/8"	3/8"	1-1/2"	-11628	\$18.85	\$16.02
3/16	3/16	5/8"	2	-11642	26.39	22.43
1/4	1/4	3/4	2-1/2	-11652	32.12	27.30
5/16	5/16	13/16	2-1/2	-11658	44.05	37.44
3/8	3/8	1	2-1/2	-11664	52.92	44.98
7/16	7/16	1	2-3/4	-11670	68.41	58.15
1/2	1/2	1	3	-11674	86.61	73.62
5/8	5/8	1-1/4	3-1/2	-11680	162.51	138.13
3/4	3/4	1-1/2	4	-11686	239.22	203.34
1	1	1-1/2	4	-11622	365.35	310.55



ACTEK® Forged Swivel Hoist Rings

FEATURES:

- Swivels 360° - Pivots 180°.
- Material: Aircraft Quality Alloy.
- Heavy phosphate coating finish.
- Safety Factor: 5:1.
- Magnetic particle inspected.
- Certified Heat Treatment.



Rated Load	Thread Size	A	B	C	D	E	F	G	Part No. 1-904-	Reg. Net Price	SALE!
800	5/16-18	1.23"	1.40"	1.16"	.44"	.50"	3.29"	2.38"	-33212	\$83.78	\$71.21
800	5/16-18	1.23	1.40	1.16	.44	1.00	3.29	2.38	-33214	83.78	71.21
1,000	3/8-16	1.23	1.40	1.16	.44	.50	3.29	2.38	-33312	83.78	71.21
1,000	3/8-16	1.23	1.40	1.16	.44	1.00	3.29	2.38	-33314	83.78	71.21
2,500	1/2-13	2.10	2.40	1.97	.75	1.00	5.60	4.05	-33515	105.71	89.85
2,500	1/2-13	2.10	2.40	1.97	.75	1.25	5.60	4.05	-33516	105.71	89.85
4,000	5/8-11	2.10	2.40	1.97	.75	1.00	5.60	4.05	-33614	105.71	89.85
4,000	5/8-11	2.10	2.40	1.97	.75	1.25	5.60	4.05	-33615	105.71	89.85
5,000	3/4-10	2.10	2.40	1.97	.75	1.00	5.60	4.05	-33714	106.45	90.48
5,000	3/4-10	2.10	2.40	1.97	.75	1.50	5.60	4.05	-33716	106.45	90.48



"The Original"

*The Solution
That Works As
Hard As You Do!*



WD-40 protects metal from rust & corrosion, penetrates stuck parts, displaces moisture, and lubricates just about anything. WD-40 is also great when it comes to cleaning grease, grime, & other marks from most surfaces. VOC COMPLIANT.

3.785 L Bulk
Part No. **1-443-9010** **\$28⁸⁴**
Reg. Net Price \$36.05



Empty
Spray Bottle
Part No. **1-443-01000** **\$6⁸⁵**

R&N NPTF Taper Pipe Taps

LIST NO.
120DS

HIGH SPEED STEEL
GROUND THREAD
RIGHT HAND

These taps are used for pipe fittings and the sizes are determined by the nominal pipe size.

For tapping dryseal tapered pipe threads. The NPTF threads are made to interfere (seal) the root and crest when mated. This creates a pressure-tight joint which will prevent leakage even without the use of a sealant. This is the primary thread type for gas pipelines.



PLUG STYLE



Size	Flute	Part No. 120DS-	Reg. Net Price	SALE!
1/16-27	4	-46202	\$29.71	\$26.74
1/8-27	4	-46204	29.86	26.87
1/8-27	5	-46206	29.87	26.88
1/4-18	4	-46210	33.48	30.13
1/4-18	5	-46212	33.48	30.13
3/8-18	4	-46216	42.82	38.54
1/2-14	4	-46222	71.28	64.15
1/2-14	5	-46224	71.28	64.15
3/4-14	5	-46228	102.85	92.57
1-11-1/2	5	-46232	146.11	131.50

SUNEX® TOOLS

10 Pc. Snap Ring Plier Set

Part No. **1-832-3007**
Reg. Net Price \$116.72
\$75⁸⁷

FEATURES:

- Blow mold case with carrying handle.
- Insulated vinyl grips for comfort and control.
- For use with both internal and external snap rings.
- Made of heat treated CR-MO steel for strength and durability.
- Heat treated forged alloy steel for strength and performance.

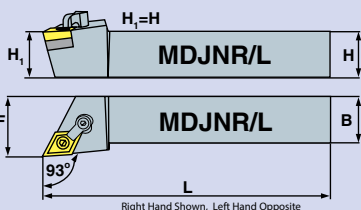
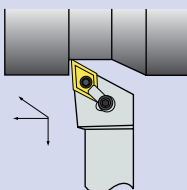


SET INCLUDES:

- 5-1/2" Bend with .038" (1mm) tip.
- 6" Straight with .038" (1mm) tip.
- 5-1/2" Bend with .047" (1.2mm) tip.
- 6" Straight with .047" (1.2mm) tip.
- 7-1/2" Bend with .070" (1.8mm) tip.
- 8" Straight with .070" (1.8mm) tip.
- 8-1/2" Bend with .090" (2.3mm) tip.
- 9" Straight with .090 (2.3mm) tip.
- 5" Hook Tool.
- 5" Pic Tool.

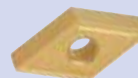


MDJN R Indexable Toolholders



FEATURES:

- 3° side cutting edge angle.
- For use with 55° diamond negative clearance DNMG inserts.



For use with
**DNMG
Style Inserts**

Tool Style	Width B	Height H	Length L	F	DNMG Insert Series	Part No. 6-715R-	Reg. Net Price	SALE!
MDJNR/L 12-4B	3/4"	3/4"	4-1/2"	1"		-124	\$108.94	\$92.60
MDJNR/L 16-4D	1	1	6	1-1/4	43	-165	117.49	99.87
MDJNR/L 20-4D	1-1/4	1-1/4	6	1-1/2		-204	129.17	109.79
MDJNR/L 24-4D	1-1/2	1-1/2	6	2		-244	170.35	144.80
MDJNR/L 85-4D	1-1/4	1	6	1-1/4		-285	144.25	122.61
MDJNR/L 16-5D	1	1	6	1-1/4	54	-416	146.65	124.65
MDJNR/L 20-5D	1-1/4	1-1/4	6	1-1/2		-420	138.58	117.79
MDJNR/L 24-5D	1-1/2	1-1/2	6	2		-424	162.71	138.30
MDJNR/L 86-5E	1-1/2	1	7	1-1/4		-486	168.62	143.33



List C430



Standard Length



Single end mills are designed for general milling operations. The spiral multi-flute design permits a faster and smoother cutting action.

Mill Dia.	Shank Dia.	Length of Cut	OAL	TiAlN Coated		
				Part No. 1-326A-	Reg. Net Price	SALE!
1/16"	1/8"	1/4"	1-1/2"	-55794	\$21.08	\$17.92
3/32"	1/8"	3/8"	1-1/2"	-55798	20.00	17.00
1/8"	1/8"	1/2"	1-1/2"	-85586	18.45	15.68
5/32"	3/16"	1/2"	2"	-85588	27.13	23.06
3/16"	3/16"	5/8"	2"	-85590	25.58	21.74
7/32"	1/4"	5/8"	2-1/2"	-85592	34.10	28.99
1/4"	1/4"	3/4"	2-1/2"	-85594	31.31	26.61
9/32"	5/16"	3/4"	2-1/2"	-85596	40.77	34.65
5/16"	5/16"	13/16"	2-1/2"	-85598	43.40	36.89
3/8"	3/8"	1"	2-1/2"	-85602	55.34	47.04
7/16"	7/16"	1"	2-3/4"	-85606	68.05	57.84
1/2"	1/2"	1"	3"	-85610	89.28	75.89
5/8"	5/8"	1-1/4"	3-1/2"	-85612	172.05	146.24
3/4"	3/4"	1-1/2"	4"	-85614	252.65	214.75



Longer flute length to allow deeper cuts.

Extra Length

Mill Dia.	Shank Dia.	Length of Cut	OAL	TiAlN Coated		
				Part No. 1-3244T-	Reg. Net Price	SALE!
1/8"	1/8"	5/8"	2"	-001	\$26.97	\$22.92
1/8"	1/8"	3/4"	2"	-002	41.23	35.05
1/8"	1/8"	1"	2"	-003	41.23	35.05
3/16"	3/16"	1"	3"	-004	46.04	39.13
3/16"	3/16"	1-1/8"	3"	-005	45.57	38.73
3/16"	3/16"	1"	4"	-006	50.53	42.95
1/4"	1/4"	1"	3"	-007	53.17	45.19
1/4"	1/4"	1"	4"	-008	56.11	47.69
1/4"	1/4"	1-1/2"	4"	-009	56.11	47.69
1/4"	1/4"	1-1/2"	6"	-010	75.80	64.43
5/16"	5/16"	1"	3"	-011	67.58	57.44
5/16"	5/16"	1"	4"	-012	75.33	64.03
5/16"	5/16"	1-5/8"	4"	-013	71.92	61.13
5/16"	5/16"	1-1/2"	6"	-014	111.45	94.73
3/8"	3/8"	1"	3"	-015	75.80	64.43
3/8"	3/8"	1"	4"	-016	83.24	70.75
3/8"	3/8"	2"	4"	-017	83.24	70.75
3/8"	3/8"	1-1/2"	6"	-018	121.21	103.03
3/8"	3/8"	3"	6"	-019	121.21	103.03
1/2"	1/2"	1"	4"	-024	122.30	103.96
1/2"	1/2"	2"	4"	-025	122.30	103.96
1/2"	1/2"	1-1/2"	6"	-026	175.15	148.88
1/2"	1/2"	3"	6"	-027	175.15	148.88

5 Pc. Single Flute Countersink Set

FEATURES:

- Recommended for portable & machine work when operated at comparatively high speed.
- Countersink holes much smaller than multi-flute tools.



save 20%

SET INCLUDES:

- 3/4", 1" with 1/2" shank.
- 1/4", 3/8" 1/2" with 1/4" shank.
- Supplied in wood block.



Part No. 5-380-5895 \$4700
Reg. Net Price \$58.75

Starrett 10 Pc. Fast Cut Bi-Metal Hole Saw Kit

NEW!

FEATURES:

- Manufactured with hardened heat resistant and positive rake high speed steel teeth welded to a durable alloy backing & cap.
- Exceptionally strong, safe, and shatter resistant.
- Effectively and economically cuts a wide variety of materials including wood, metal, and steel.
- Allows cutting through a depth of 1-5/8".

Starrett #KFC07031-N

Part No. 1-856-01235

Reg. Net Price \$122.78

\$110.50

KIT INCLUDES:

- 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2" & 2-1/4" FCH Series Hole Saws.
- A7 Ejector Spring.
- A1 Hole Saw Arbor with Pilot Drill.
- A10 Hole Saw Arbor (11/32" shank) w/ Pilot Drill.
- Carrying Case.



MICRO 100

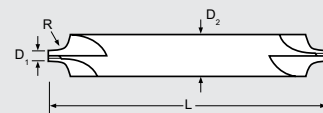
Solid Carbide Corner Rounding End Mills



Superior rupture strength. Considerably prolongs tool life in machining all hard stainless steels, efficiently performs in exotic metals. Cuts heat treated tool steels. Increased speed and feed rates in cutting aluminum, copper, stainless steels, high temperature alloys, thermoplastics and composites used in the aircraft industry.



Double End - 3 Flute



Radius	Minor Dia.	Shank Dia.	OAL	Part No. 1-428-	Reg. Net Price	SALE!
.0100"	.060"	1/8"	2"	-CRE125010	\$51.15	\$46.04
.0156	.060	1/8"	2"	-CRE125015	51.15	46.04
.0200	.060	1/8"	2"	-CRE125020	51.15	46.04
.0250	.060	1/8"	2"	-CRE125025	51.15	46.04
.0300	.060	1/8"	2"	-CRE125030	51.15	46.04
.0312	.060	1/8"	2"	-CRE125031	51.15	46.04
.0350	.060	3/16"	2"	-CRE187035	55.10	49.59
.0400	.060	3/16"	2"	-CRE187040	55.10	49.59
.0450	.060	3/16"	2"	-CRE187045	55.10	49.59
.0469	.060	3/16"	2"	-CRE187047	55.10	49.59
.0500	.060	3/16"	2"	-CRE187050	55.10	49.59
.0550	.060	3/16"	2"	-CRE187055	55.10	49.59
.0600	.060	3/16"	2"	-CRE187060	55.10	49.59
.0625	.060	3/16"	2"	-CRE187062	55.10	49.59
.0700	.060	1/4"	2-1/2"	-CRE250070	71.38	64.24
.0750	.060	1/4"	2-1/2"	-CRE250075	71.38	64.24
.0781	.060	1/4"	2-1/2"	-CRE250078	71.38	64.24
.0800	.060	1/4"	2-1/2"	-CRE250080	71.38	64.24
.0900	.060	1/4"	2-1/2"	-CRE250090	71.38	64.24
.0938	.060	1/4"	2-1/2"	-CRE250093	71.38	64.24



4 Flute Premium Solid Carbide Center Cutting Miniature End Mills



Series 111

Designed for aggressive milling of most materials.

FEATURES:

- Micrograin 10% cobalt grade.
- Shank Diameter: 1/8"
- Overall Length: 1-1/2"



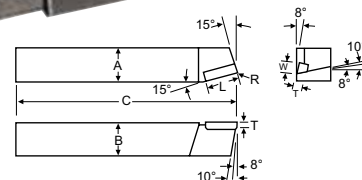
Size	Flute Length	Part No. 5-100-	Reg. Net Price	SALE!
.005"	.015"	-51001	\$108.07	\$91.86
.010	.030	-51005	77.20	65.62
.015	.045	-51009	45.68	38.83
.020	.060	-51017	44.89	38.16
.025	.075	-51021	44.89	38.16
.030	.090	-51025	45.68	38.83
.035	.105	-51031	35.37	30.06
.040	.120	-51039	34.56	29.38
.045	.135	-51043	35.37	30.06
.050	.150	-51049	35.37	30.06
.055	.165	-51053	35.37	30.06
.060	.180	-51061	31.52	26.79
.065	.195	-51067	28.26	24.02
.070	.210	-51071	28.26	24.02
.075	.225	-51077	28.26	24.02
.080	.240	-51085	28.26	24.02
.085	.255	-51087	28.26	24.02
.090	.270	-51089	28.26	24.02
.095	.285	-51093	28.26	24.02
.100	.300	-51099	28.26	24.02

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



Dimensions						Part No. 1-428-	Reg. Net Price	SALE!
Shank		Tip						
A-B	C	T	W	L	R	Right Hand	Left Hand	
1/4"	2"	1/16"	3/16"	1/4"	1/64"	-AR4	-AL4	\$18.99
5/16	2-1/4	1/16	1/4	5/16	1/64	-AR5	-AL5	19.30
3/8	2-1/2	1/8	1/4	1/2	1/64	-AR6	-AL6	20.15
7/16	3	1/8	1/4	1/2	1/32	-AR7	-AL7	20.85
1/2	3-1/2	1/8	1/4	5/8	1/32	-AR8	-AL8	21.24
5/8	4	5/32	3/8	3/4	1/32	-AR10	-AL10	34.72
3/4	4-1/2	3/16	7/16	13/16	1/32	-AR12	-AL12	46.27



MICRO-GRAIN CARBIDE +PLUS!



CLE-LINE Jobbers Drill Sets

Jobbers length drills are designed to perform in a wide variety of normal conditions and in a broad range of materials in both machine and portable drilling.

118° POINT RIGHT HAND HIGH SPEED STEEL

# Pieces In Set	Sizes	Part No. 1-001AX-	Reg. Net Price	SALE!
29	1/16" - 1/2" by 64ths	-0290	\$132.48	\$105.98
26	A to Z	-0260	129.78	103.83
60	#1 thru #60	-0600	117.94	94.35
115	1/16" - 1/2" by 64ths #1 thru #60 & A to Z	-0115	397.78	318.22

save
20%

The duMONT Company, LLC



Individual Keyway Broaches



METRIC

Broach	Keyway Width MM	Broach Dim. In Inches	No. of Shims	Part No. 1-412-	Reg. Net Price	SALE!
A	2	1/8"	0	-44401	\$81.84	\$69.56
A	3	x5	1	-44402	81.84	69.56
B-1	4	1/4"	1	-44403	98.58	83.79
B-1	5	x6-3/4	1	-44404	98.58	83.79
C	5	3/8"	1	-44405	124.62	105.93
C-1	6	x	1	-44406	124.62	105.93
C-1	8	11-3/4	2	-44407	124.62	105.93
D-1	10	9/16"	2	-44408	190.50	161.93
D-1	12	x	2	-44409	190.50	161.93
D-1	14	13-7/8	2	-44410	190.50	161.93
E-1	16	3/4"	3	-44411	318.06	270.35
		x 15-1/2				
F-1	20	1"	3	-44413	655.18	556.90
F-1	22	x	4	-44414	655.18	556.90
F	24	20-1/4	5	-44415	655.18	556.90
F-1	25		4	-44494	655.18	556.90

HIGH
SPEED
STEEL

INCH

Broach	Keyway Width	Broach Dimensions	Shims Req.	No. of Teeth	Length of Cut Min.	Length of Cut Max.	Part No. 1-400-	Reg. Net Price	SALE!
A	1/16"	1/8"x 5"	0	18	13/64"	1-1/8"	-22201	\$81.84	\$69.56
A	3/32	1/8 x 5	0	18	13/64	1-1/8	-22202	81.84	69.56
A	1/8	1/8 x 5	1	18	13/64	1-1/8	-22203	81.84	69.56
B	3/32	3/16 x 6-3/4	0	16	19/64	1-1/16	-22204	98.58	83.79
B	1/8	3/16 x 6-3/4	1	16	19/64	1-1/16	-22205	98.58	83.79
B	5/32	3/16 x 6-3/4	1	16	19/64	1-11/16	-22206	98.58	83.79
B	3/16	3/16 x 6-3/4	1	16	19/64	1-11/16	-22207	98.58	83.79
C	3/16	3/8 x 11-3/4	1	22	25/64	2-1/2	-22208	124.62	105.93
C	1/4	3/8 x 11-3/4	1	22	25/64	2-1/2	-22209	124.62	105.93
C	5/16	3/8 x 11-3/4	2	22	25/64	2-1/2	-22210	124.62	105.93
C	3/8	3/8 x 11-3/4	2	22	25/64	2-1/2	-22211	124.62	105.93
D	5/16	9/16 x 13-7/8	2	17	1	6	-22212	190.50	161.93
D	3/8	9/16 x 13-7/8	2	17	1	6	-22213	190.50	161.93
D	7/16	9/16 x 13-7/8	3	17	1	6	-22214	190.50	161.93
D	1/2	9/16 x 13-7/8	3	17	1	6	-22215	190.50	161.93
E	5/8	3/4 x 15-1/2	4	20	1	6	-22216	318.06	270.35
E	3/4	3/4 x 15-1/2	5	20	1	6	-22217	318.06	270.35
F	7/8	1 x 20-1/4	6	26	1	6	-22218	655.18	556.90
F	1	1 x 20-1/4	7	26	1	6	-22219	655.18	556.90

2 & 4 Flute Drill Point Solid Carbide End Mills

APPLICATIONS:
• Drilling • Milling • Spotting
• Chamfering • Countersinking

90° Included
Point Angle



Size	Shank Dia.	Flute Length	OAL	2 Flute						4 Flute					
				Uncoated			TiAlN Coated			Uncoated			TiAlN Coated		
				Part No. 1-325D-	Reg. Net Price	SALE!	Part No. 1-325DT-	Reg. Net Price	SALE!	Part No. 1-326D-	Reg. Net Price	SALE!	Part No. 1-326DT-	Reg. Net Price	SALE!
1/8"	1/8"	1/2"	1-1/2"	-008	\$16.34	\$14.71	-008	\$19.75	\$17.78	-008	\$16.34	\$14.71	-008	\$19.75	\$17.78
3/16	3/16	5/8	2	-012	20.09	18.08	-012	25.11	22.60	-012	20.09	18.08	-012	25.11	22.60
1/4	1/4	3/4	2-1/2	-016	24.21	21.79	-016	32.74	29.47	-016	24.20	21.78	-016	32.74	29.47
5/16	5/16	13/16	2-1/2	-020	32.64	29.38	-020	44.36	39.92	-020	32.64	29.38	-020	44.36	39.92
3/8	3/8	1	2-1/2	-024	36.43	32.79	-024	48.14	43.33	-024	36.43	32.79	-024	48.14	43.33
7/16	7/16	1	2-1/2	-028	60.26	54.23	-028	76.34	68.71	-028	60.26	54.23	-028	76.34	68.71
1/2	1/2	1	3	-032	65.29	58.76	-032	82.03	73.83	-032	65.29	58.76	-032	82.03	73.83
5/8	5/8	1-1/4	3-1/2	-040	110.36	99.32	-040	132.25	119.03	-040	110.48	99.43	-040	132.25	119.03
3/4	3/4	1-1/2	4	-048	175.77	158.19	-048	196.70	177.03	-048	175.77	158.19	-048	196.70	177.03

Niagara Cutter Multiple Flute M-42 8% Cobalt Roughing End Mills

C.N.C. QUALIFIED
HIGH SPEED STEEL

LIST REM-710
COARSE PITCH

TOLERANCES:
+.003 - .000

For high production milling in difficult to machine materials up to 40 Rc. Made from Premium M-42 8% Cobalt steel with ground form knuckle tooth geometry that reduces drag and friction.



Mill Dia.	Shank Dia.	Length of Cut	OAL	No. of Flutes	Part No. 1-331A-	Reg. Net Price	SALE!
3/8"	3/8"	1-1/2"	3-1/4"	4	-71122	\$70.99	\$60.34
1/2	1/2	1-1/4	3-1/4"	4	-71162	78.12	66.40
5/8	5/8	1-5/8	3-3/4"	4	-71203	94.86	80.63
3/4	3/4	1-5/8	3-7/8"	4	-71244	108.50	92.23
1	1	2	4-1/2"	5	-71326	162.75	138.34



The duMONT Company, LLC



No. 10 Standard Keyway Broach Set - 1/8" to 3/8"

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

Part No.
1-409-11104
Reg. Net
Price \$600.47
\$540.42

High Speed Steel



Huot Drill Indexes



#13 (1/16"-1/4" by 64ths)
Part No. 1-030-0130
Reg. Net Price \$8.00
\$4.00

#20 (No. 61 to No. 80)
Part No. 1-030-0200
Reg. Net Price \$9.16
\$4.58

FEATURES:

- Folding drill holder.
- Greater accessibility.
- All-steel index securely holds drills by the shank.
- High quality epoxy finish.
- Silk screened drill identification for easy picking of drills.



UNION BUTTERFIELD

4 Flute Plug Hand Taps

FEATURES:

- General purpose taps.
- Widely used in through holes and where there is sufficient room at the bottom in blind holes.
- Most common style of hand taps.

GROUND THREAD
GH LIMIT - H3
HIGH SPEED
STEEL
RIGHT HAND



FRACTIONAL SIZES

Size	Part No. 1-351-	Reg. Net Price	SALE!
1/4-20 NC	-1010006	\$8.63	\$7.34
1/4-28 NF	-1010017	8.63	7.34
5/16-18 NC	-1010028	10.50	8.93
5/16-24 NF	-1010039	10.50	8.93
3/8-16 NC	-1010050	11.94	10.15
3/8-24 NF	-1010061	11.94	10.15
1/2-13 NC	-1010088	21.32	18.12
1/2-20 NF	-1010097	24.55	20.87
5/8-11 NC	-1010121	43.45	36.93
5/8-18 NF	-1010128	43.45	36.93
3/4-10 NC	-1010142	61.28	52.09
3/4-16 NF	-1010149	61.28	52.09

Spiral Pointed Hand Taps

FEATURES:

- Commonly referred to as "gun" taps.
- Excellent production tapping of through holes.
- Flute design forces the evacuation of chips ahead of the cutting action.

HIGH SPEED STEEL
PLUG STYLE
GROUND THREAD
RIGHT HAND

MACHINE SCREW SIZES

Size	GH Limit	No. of Flutes	Part No. 1-351-	Reg. Net Price	SALE!
4-40 NC	H2	2	-1010805	\$11.85	\$10.07
6-32 NC	H3	2	-1012361	9.98	8.48
8-32 NC	H3	2	-1012370	9.98	8.48
10-24 NC	H3	2	-1012378	9.98	8.48
10-32 NF	H3	2	-1012383	9.98	8.48

FRACTIONAL SIZES

Size	GH Limit	No. of Flutes	Part No. 1-351-	Reg. Net Price	SALE!
1/4-20 NC	H3	2	-1010292	\$9.93	\$8.44
1/4-28 NF	H3	2	-1010299	9.98	8.48
5/16-18 NC	H3	2	-1010306	10.71	9.10
5/16-24 NF	H3	2	-1010313	10.71	9.10
3/8-16 NC	H3	3	-1010320	12.61	10.72
3/8-24 NF	H3	3	-1010324	13.59	11.55
1/2-13 NC	H3	3	-1010336	22.03	18.73
1/2-20 NF	H3	3	-1010340	25.71	21.85
5/8-11 NC	H3	3	-1010342	49.48	42.06
5/8-18 NF	H3	3	-1012774	49.48	42.06
3/4-10 NC	H3	3	-1010344	69.66	59.21



8 Pc. Hand Adjustable Reamer Set



Supplied in a fitted wood case.

15/32" to 1-1/16"
Part No. 1-135-800
Reg. Net Price \$201.81
\$141²⁷

FEATURES:

- Reamers are used for light cut, repair work, removing stock, or for enlarging holes.
- Can be hand operated by use of wrenches.
- Each reamer adjusts from a smaller size to a larger size.

HIGH SPEED
STEEL



Metric Chucking Reamers

STRAIGHT FLUTE
STRAIGHT SHANK
HIGH SPEED STEEL

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

Diameter Tolerance:
+.0002"
-.0000"



Size MM	Flute Length	OAL	Part No. 1-136A-	Reg. Net Price	SALE!
1	1/2"	2-1/2"	-20012	\$25.63	\$23.07
2	3/4	3	-20031	19.96	17.96
3	7/8	3-1/2	-20050	21.48	19.33
4	1	4	-20069	25.57	23.01
5	1-1/4	5	-20090	29.11	26.20
6	1-1/2	6	-20104	32.22	29.00
7	1-1/2	6	-20119	33.69	30.32
8	1-1/2	6	-20133	33.69	30.32
9	1-3/4	7	-20142	39.49	35.54
10	1-3/4	7	-20155	41.07	36.97
11	1-3/4	7	-20162	45.53	40.98
12	2	8	-20171	46.32	41.69
13	2	8	-20179	55.36	49.82
14	2	8	-20182	58.77	52.90
15	2	8	-20185	61.46	55.31
16	2-1/4	9	-20189	83.25	74.92



Extra Long Straight Shank Drills

118° POINT

HIGH
SPEED
STEEL



For general purpose drilling in applications where extra length for reach is required. Designed to perform in a broad range of materials in the iron and steel families.

12" OAL - 9" FLUTE

Size	Part No. 1-072D -	ONLY!
1/8"	-008	\$15.89
9/64	-009	15.89
5/32	-010	15.89
11/64	-011	15.89
3/16	-012	15.89
13/64	-013	15.89
7/32	-014	15.89
15/64	-015	15.89
1/4	-016	15.89
17/64	-017	18.45
9/32	-018	18.45
19/64	-019	18.45
5/16	-020	18.76
21/64	-021	20.93
11/32	-022	20.93
23/64	-023	21.70
3/8	-024	21.70
25/64	-025	24.03
13/32	-026	24.03
27/64	-027	24.03
7/16	-028	24.03
29/64	-029	27.13
15/32	-030	27.13
31/64	-031	29.06
1/2	-032	35.26

FISHER MACHINE Tap Guides

FEATURES:

- Adjustable tension spring.
- Knurled for easy handling.
- 1/2" dia. hardened shank.
- 3/16" dia. hardened tension pin.
- Reversible tension pin for male and female hole centering of tap.
- With this tool you start every tap straight.

Part No. 1-811-130
\$22²⁵



WALTON

Tap Extractors

STANDARD SETS

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

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



Each set in plastic compartment box. 4-flute style extractors furnished except on size 6, or smaller which are furnished in 3-flute styles.

Set Includes Sizes	Part No. 1-391-	Reg. Net Price	SALE!
3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	-800	\$162.55	\$130.04
1/4", 5/16", 3/8", 7/16", 1/2", 5/8"	-810	182.35	145.88
5/16", 3/8", 7/16", 1/2", 9/16", 5/8"	-820	197.45	157.96
1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 1"	-830	410.40	328.32
4, 5, 6, 8, 10, 12, 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4"	-840	382.90	306.32
4, 5, 6, 8, 10, 12, 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8", 1"	-850	507.05	405.64



NES Thread Cleaner & Restorer

For construction, plumbing, garages, agriculture, engineering, maintenance and anyone who deals with nuts & bolts!

FEATURES:

- Applicable to all forms of standard and metric threads.
- Can be used on right hand or left hand threads.
- Blades automatically adapt to any thread pitch.
- The blades have axial play & will automatically adjust themselves into the thread grooves.

NES COMBO PACK

(In Sturdy Case)

1 of Each: NES 1, NES 2, NES 3, NES 1R, NES 2R, NES 3R, NES Cleaner, L-Wrench

Part No. 1-842-608

Reg. Net Price \$839.40

\$713⁴⁹

NES SET

1 of Each: NES 1, NES 2, NES 1R, NES 2R

Part No. 1-842-605

Reg. Net Price \$306.80

\$260⁷⁸



FOR 60° THREADS

Model No.	Threads	Part No. 1-842-	Reg. Net Price	SALE!
NES 1	5/32" - 11/16" (4-18mm)	-601	\$111.90	\$95.12
NES 2	11/16" - 1-1/2" (17-38mm)	-602	163.45	138.93
NES 3	1-1/4" - 5" (32-128mm)	-606	460.00	391.00





82° Single Flute Countersinks

HIGH SPEED STEEL & COBALT



KEO single flute countersinks are ideal for chamfering, deburring and countersinking. The large positive rake and single flute construction provides a smooth surface finish on a wide variety of materials. The versatility of this tool should increase productivity on all general purpose applications.

Body Dia.	Shank Dia.	OAL	HIGH SPEED STEEL			COBALT		
			Part No. 1-159A-	Reg. Net Price	SALE!	Part No. 1-159A-	Reg. Net Price	SALE!
1/8"	1/8"	1-1/4"	-53188	\$13.53	\$12.18	-55412	\$15.56	\$14.01
3/16"	3/16"	1-3/8"	-53178	13.87	12.49	-55413	15.95	14.35
1/4"	1/4"	1-1/2"	-53148	14.43	12.99	-55414	16.60	14.94
3/8"	1/4"	1-3/4"	-53388	16.46	14.81	-55415	18.94	17.05
1/2"	1/4"	2"	-53128	20.13	18.12	-55416	23.17	20.86
5/8"	3/8"	2-1/4"	-53588	26.95	24.26	-55417	30.98	27.89
3/4"	1/2"	2-5/8"	-53348	39.32	35.39	-55418	45.23	40.71
1"	1/2"	2-3/4"	-53108	67.46	60.71	-55419	77.58	69.82
1-1/4"	1/2"	2-3/4"	-53248	132.04	118.84	-55420	151.85	136.67
1-1/2"	3/4"	2-7/8"	-53228	178.79	160.91	-55421	205.61	185.05

High Speed Steel Adjustable Round Split Dies 1" O.D.

FEATURES:

- General purpose.
- Used for threading studs, bolts and rods or similar applications that require external threads.



RIGHT HAND



Size	Part No. 1-383-	Reg. Net Price	SALE!
5-44 NF	-0545	\$18.35	\$14.68
6-32 NC	-0633	18.35	14.68
6-40 NF	-0641	18.35	14.68
8-32 NC	-0833	18.35	14.68
8-36 NF	-0837	18.35	14.68
10-24 NC	-1025	18.35	14.68
10-32 NF	-1033	18.35	14.68
12-24 NC	-1225	18.35	14.68
12-28 NF	-1229	18.35	14.68

Size	Part No. 1-383-	Reg. Net Price	SALE!
1/4"-20 NC	-0162	\$18.35	\$14.68
1/4"-28 NF	-0167	18.35	14.68
5/16"-18 NC	-0202	18.35	14.68
5/16"-24 NF	-0207	18.35	14.68
3/8"-16 NC	-0242	18.35	14.68
3/8"-24 NF	-0247	18.35	14.68
7/16"-14 NC	-0282	18.35	14.68
7/16"-20 NF	-0287	18.35	14.68
1/2"-13 NC	-0322	18.35	14.68
1/2"-20 NF	-0327	18.35	14.68



Screw Machine Drills



RIGHT HAND

135° SPLIT POINT



BLACK OXIDE SURFACE TREATED
Increases abrasion resistance, reduces the amount of chip welding & improves the chip flow.



Size	OAL	Part No. 1-050AX-	Reg. Net Price	SALE!
1/16"	1-5/8"	-004	\$1.43	\$1.15
5/64"	1-11/16"	-005	1.49	1.19
3/32"	1-3/4"	-006	1.52	1.22
7/64"	1-13/16"	-007	1.58	1.26
1/8"	1-7/8"	-008	1.61	1.28
9/64"	1-15/16"	-009	1.72	1.38
5/32"	2-1/16"	-010	1.89	1.51
11/64"	2-1/8"	-011	2.04	1.63
3/16"	2-3/16"	-012	2.12	1.70
13/64"	2-1/4"	-013	2.38	1.90
7/32"	2-3/8"	-014	2.55	2.04
15/64"	2-7/16"	-015	2.67	2.13
1/4"	2-1/8"	-016	2.75	2.20
17/64"	2-5/8"	-017	3.33	2.66
9/32"	2-11/16"	-018	3.41	2.73
19/64"	2-3/4"	-019	3.79	3.03
5/16"	2-13/16"	-020	3.90	3.12
21/64"	2-15/16"	-021	4.73	3.79
11/32"	3"	-022	5.08	4.06
23/64"	3-1/16"	-023	5.53	4.43
3/8"	3-1/8"	-024	5.76	4.61
25/64"	3-1/4"	-025	6.57	5.25
13/32"	3-5/16"	-026	6.74	5.39
27/64"	3-3/8"	-027	7.34	5.87
7/16"	3-7/16"	-028	7.57	6.06
29/64"	3-9/16"	-029	8.77	7.02
15/32"	3-5/8"	-030	9.35	7.48
31/64"	3-11/16"	-031	9.69	7.75
1/2"	3-3/4"	-032	9.78	7.82



Jobbers Drills

Jobbers length drills are designed to perform in a wide variety of normal conditions and in a broad range of materials in both machine and portable drilling.

118° POINT

RIGHT HAND



HIGH SPEED STEEL

FRACTIONAL SIZES

Size	OAL	Part No. 1-001A-	Reg. Net Price	SALE!	Size	OAL	Part No. 1-001A-	Reg. Net Price	SALE!
1/16"	1-7/8"	-004	\$2.01	\$1.71	19/64"	4-3/8"	-019	\$5.76	\$4.90
5/64"	2"	-005	2.03	1.73	5/16"	4-1/2"	-020	6.35	5.40
3/32"	2-1/4"	-006	2.03	1.73	21/64"	4-5/8"	-021	7.06	6.00
7/64"	2-5/8"	-007	2.14	1.82	11/32"	4-3/4"	-022	7.82	6.65
1/8"	2-3/4"	-008	2.07	1.76	23/64"	4-7/8"	-023	8.85	7.52
9/64"	2-7/8"	-009	2.29	1.95	3/8"	5"	-024	9.00	7.65
5/32"	3-1/8"	-010	2.34	1.99	25/64"	5-1/8"	-025	10.33	8.78
11/64"	3-1/4"	-011	2.54	2.16	13/32"	5-1/4"	-026	10.60	9.01
3/16"	3-1/2"	-012	2.83	2.41	27/64"	5-3/8"	-027	11.73	9.97
13/64"	3-5/8"	-013	3.14	2.67	7/16"	5-1/2"	-028	12.30	10.46
7/32"	3-3/4"	-014	3.46	2.94	29/64"	5-5/8"	-029	13.78	11.71
15/64"	3-7/8"	-015	3.76	3.20	15/32"	5-3/4"	-030	14.54	12.36
1/4"	4"	-016	3.95	3.36	31/64"	5-7/8"	-031	15.42	13.11
17/64"	4-1/8"	-017	4.79	4.07	1/2"	6"	-032	15.30	13.01
9/32"	4-1/4"	-018	4.95	4.21					



RIGHT HAND
GROUND THREAD

FEATURES:

- Indexes organize 9 taps with the correct drill bit!
- Sets include plug style hand taps & jobbers drills listed.

Tap/Drill Sets With Plug Taps

HIGH SPEED STEEL



NATIONAL COARSE

Includes Sizes	
Tap	Drill
6-32	#36
8-32	#29
10-24	#25
10-32	#21
1/4-20	#7
5/16-18	F
3/8-16	5/16 U
7/16-14	U
1/2-13	27/64

Part No. 1-393-101

Reg. Net Price \$62.54

\$56.29

NATIONAL FINE

Includes Sizes	
Tap	Drill
6-40	#33
8-36	#29
10-24	#25
10-32	#21
1/4-28	#3
5/16-24	I
3/8-24	Q
7/16-20	25/64
1/2-20	29/64

Part No. 1-393-102

Reg. Net Price \$62.54

\$56.29



Thread Inserts

FEATURES:

- Install with standard tools.
- Self locking.
- Carbon steel designs.
- Registered to ISO 9001:2000.



E-Z LOK thread inserts are an easy way to replace or prevent worn threads. They install with standard tools... no special drills or taps needed. Simply drill the hole with a standard drill, tap the hole with a standard tap, then turn in the EZ-LOK with screwdriver or bolt/nut. A preapplied anaerobic adhesive on external threads locks the inserts in place.



INCH REPAIR KITS

Desc.	Qty. of Inserts	Internal Thread	External Thread	Part No. 1-842-	Reg. Net Price Per Kit	SALE!
Coarse Thread No. 10 to 1/2"	10	10-24	3/8-16			
	10	1/4-20	7/16-14			
	10	5/16-18	1/2-13	-023	\$136.94	\$123.25
	10	3/8-16	9/16-12			
	6	1/2-13	3/4-10			
Coarse Thread 1/2" to 1"	6	1/2-13	3/4-10			
	7	5/8-11	7/8-9	-024	140.04	126.04
	2	3/4-10	1-8			
		1-8	1-3/8-12			
Fine Thread No. 10 to 1/2"	10	10-32	3/8-16			
	10	1/4-28	7/16-14			
	10	5/16-24	1/2-13	-025	132.91	119.62
	10	3/8-24	9/16-12			
	6	1/2-20	3/4-10			

METRIC REPAIR KITS

Desc.	Qty. of Inserts	Internal Thread	External Thread	Part No. 1-842-	Reg. Net Price Per Kit	SALE!
Metric Thread M6 to M12	10	M6-1.0	3/8-16			
	10	M8-1.25	1/2-13			
	10	M10-1.5	9/16-12	-041	\$136.94	\$123.25
	6	M12-1.75	3/4-10			
M3-0.5 to M8-1.25	10	M3-0.5	M6-1.0			
	10	M4-0.7	M8-1.25			
	10	M5-0.8	M10-1.5	-042	188.48	169.63
	10	M6-1.0	M12-1.75			
M8-1.25 to M16-2.0	10	M8-1.25	M12-1.75			
	10	M10-1.5	M16-2.0			
	8	M12-1.75	M16-2.0	-043	215.61	194.05
	5	M16-2.0	M24-3.0			

KORLOY® Alpha Mill Indexable End Mill Kits

KIT INCLUDES:

- (1) Cutter
- (10) APMT Inserts
- Wrench, Grease & Literature

Cutting Dia.	OAL	Cutting Length	Shank Dia.	Cutting Depth	No. of Inserts	Part No. 1-244-	ONLY!	KIT INCLUDES Inserts
3/4"	3.937"	1.181"	3/4"	.433"	2	-075N	\$170.48	(10) APMT11T3PDSR-MM
1	4.331	1.81	1	.354	3	-100N	185.98	(10) APMT0903PDSR-MM
1	4.528	1.378	1	.433	3	-101N	185.98	(10) APMT11T3PDSR-MM
1	4.528	1.378	1	.630	2	-102N	216.98	(10) APMT1604PDSR-MM
1-1/4	4.921	1.575	1-1/4	.630	3	-1021	247.98	(10) APMT1604PDSR-MM
1-1/2	5.118	1.654	1-1/4	.433	5	-1015	247.98	(10) APMT11T3PDSR-MM
1-1/2	5.118	1.654	1-1/4	.630	4	-1022	278.98	(10) APMT1604PDSR-MM
2	5.315	1.772	1-1/4	.630	5	-1023	309.98	(10) APMT1604PDSR-MM



FEATURES:

- Alpha Mill series makes both high feed and deep depth of cut machining possible with a variety of insert sizes.
- The smaller inserts with 1.5 times more edges accomplish high feed.
- The bigger inserts achieve better hardness and deep depth of cutting making 1.3 times better MRR.
- Wider chip pocket.
- Screw on system for better chip control.
- Through coolant system.
- Better chip evacuation.
- Longer tool life with less heat.

M100 DEX™

3 Pc. SDUCR Coolant-Thru Boring Bar Set Profile Boring & Facing

Part No.

1-428-402400

Reg. Net

Price \$356.58

\$303⁰⁹



FEATURES:

- For use with 55° diamond positive clearance DCMT inserts.
- Complete with 4-Layer Coated Carbide Inserts, Torx Screws and Torx Key.
- Furnished in fitted wooden case.

INCLUDES: 3/8", 1/2", & 5/8" boring bars.

KORLOY® Style TCMT Carbide Inserts

TRIANGULAR

ASA Code	Insert IC Size	Hole Dia.	Thickness	Corner Radius	Part No. 1-2443-	Reg. Net Price	SALE!
TCMT-21.51	1/4"	.110"	3/32"	1/64"	-927	\$11.56	\$9.25
TCMT-21.52	1/4"	.110	3/32	1/32	-928	11.56	9.25
TCMT-32.51	3/8	.173	5/32	1/64	-929	13.95	11.16
TCMT-32.52	3/8	.173	5/32	1/32	-930	13.95	11.16

Grade TG-320 - Excellent coated grade for general purpose cuts in steel & steel alloys. Equivalent to P10-P30 grade. Recommended cutting speed 500-1000 SFM.

KORLOY® Style SNMG Carbide Inserts

SQUARE

ASA Code	Insert IC Size	Hole Dia.	Thickness	Corner Radius	Part No. 1-2443-	Reg. Net Price	SALE!
SNMG-322	3/8"	.150"	1/8"	1/32"	-661	\$11.92	\$9.54
SNMG-431	1/2	.203	3/16	1/64	-662	13.55	10.84
SNMG-432	1/2	.203	3/16	1/32	-663	13.55	10.84
SNMG-433	1/2	.203	3/16	3/64	-664	13.55	10.84
SNMG-642	3/4	.313	1/4	1/32	-668	28.21	22.57
SNMG-643	3/4	.313	1/4	3/64	-669	28.21	22.57
SNMG-644	3/4	.313	1/4	1/16	-670	28.21	22.57

FEATURES:

- Double sided.
- 0° relief angle.
- Pin and clamp insert.
- Use for medium cuts.
- Standard chip control.
- Depth of Cut: 5/64" ~ 5/64".
- Feed Rate: .010" ~ .020"/rev.



- Single sided.
- Screw on insert.
- 7° relief angle.
- Standard chip control.
- Use for medium cuts.
- Depth of cut - 3/64-1/8 of an inch.
- Feed rate - .004-.012 IPR (Inch/Rev.).

H.B. Rouse & Co. Little Hogger Mill

Mill at 5 times the speed of hi-speed tools. Feed at an average rate of 12" per minute. No loss of cutter size due to regrinding. Have new cutting edges without removing cutter from machine in less than 1 minute. All carbide inserts are standard. Standard 3/4" dia. Weldon shanks.

3 PC. SET (HS-134)

Part No.

1-512-204

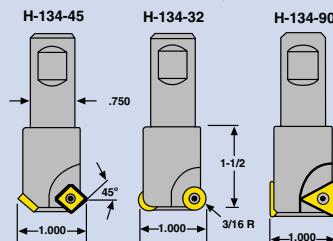
Reg. Net

Price \$330.47

\$297⁴²

INDIVIDUAL MILLS

Tool No.	Use Standard Insert No.	Part No. 1-512-	Reg. Net Price	SALE!
H-134-45	SNMA-322	-201	\$117.64	\$105.88
H-134-32	RNMA-32	-202	117.64	105.88
H-134-90	TNMA-322	-203	117.64	105.88



MICRO 100® Carbide Inserts



MICRO 100 is a space age, micro grain carbide of excellent quality. It is in a class of its own, resulting from the exclusive treating process. Micro grain carbide has superior rupture strength for exceptional machining versatility. It is also highly shock resistant, it will not chip or break under normal machining conditions and is unexcelled in interrupted cutting. It prolongs tool life in machining all hard stainless steels, and also efficiently performing in exotic metals.

APKT Inserts

Insert Style	I.C.	L	T	r	F	Part No. 1-428-	Reg. Net Price	SALE!
APKT 1003PDR	.264"	.413"	.137"	.020"	.047"	-502100	\$17.44	\$14.82

CCMT Inserts - 80° Diamond

Insert Style	I.C.	Hole Dia.	Thickness	Corner Radius	Part No. 1-428-	Reg. Net Price	SALE!
CCMT 21.51	1/4"	.110"	3/32"	1/64"	-501100	\$15.73	\$13.37

DCMT Inserts - 55° Diamond

Insert Style	I.C.	Hole Dia.	Thickness	Corner Radius	Part No. 1-428-	Reg. Net Price	SALE!
DCMT 21.51	1/4"	.110"	3/32"	1/64"	-501200	\$16.66	\$14.16

TCMT Inserts - 60° Triangle

Insert Style	I.C.	Hole Dia.	Thickness	Corner Radius	Part No. 1-428-	Reg. Net Price	SALE!
TCMT 21.51	1/4"	.110"	3/32"	1/64"	-501300	\$14.03	\$11.93

Mini SI-SCLC R 4 Pc. Indexable Boring Bar Set

FEATURES:

- 3° end cutting edge angle.
- For use with 80° diamond positive clearance CCMT inserts.

INCLUDES:

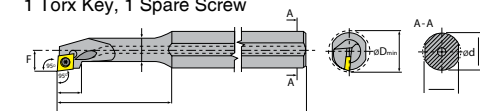
- Boring Bars: .315", 3/8", 1/2", & 5/8"
- TiN Coated Inserts: 10 pcs. CCMT-21.51
- 1 Torx Key, 1 Spare Screw

Part No. 6-871-524

Reg. Net

Price \$395.22

\$357⁷⁰



Boring Bar Style	Shank Size d	Min. Bore D	OAL L	Center Line F	B	E	C	d1	Insert Series
SI-0608H-SCLCR-02	.315"	.315"	4.0"	.1575"	1.000"	.3150"	.2362"	.2756"	21.51
SI-0810J-SCLCR-02	.375"	.433"	4.5	.2362	1.260	.4134	.3150	.3543	
SI-1012K-SCLCR-02	.500"	.512"	5.0	.2756	1.496	.4528	.3937	.4331	
SI-1216M-SCLCR-02	.625"	.699"	6.0	.3543	1.969	.3937	.4724	.5901	

KORLOY® Style TNMG Carbide Inserts

Triangular

FEATURES:

- Double sided.
- Pin and clamp insert.
- 0° relief angle.
- Use for medium cuts.
- Standard chip control.
- Depth of Cut: 5/64" ~ 15/64".
- Feed Rate: .010" ~ .020"/rev.

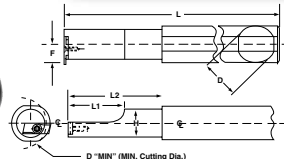
TG-320 - Excellent coated grade for general purpose cuts in steel & steel alloys. Equivalent to P10-P30 grade. Recommended Cutting Speed: 500-1,000 SFM.

ASA Code	Insert IC Size	Hole Dia.	Thickness	Corner Radius	Part No. 1-2443-	Reg. Net Price	SALE!
TNMG-222	1/4"	.090"	1/8"	1/32"	-621	\$9.67	\$7.25
TNMG-321	3/8	.150	1/8	1/64	-622	10.90	5.45
TNMG-322	3/8	.150	1/8	1/32	-623	10.90	8.18
TNMG-323	3/8	.150	1/8	3/64	-624	10.90	8.18
TNMG-324	3/8	.150	1/8	1/16	-625	10.90	8.18
TNMG-331	3/8	.150	3/16	1/64	-626	11.87	8.90
TNMG-332	3/8	.150	3/16	1/32	-627	11.87	8.90
TNMG-431	1/2	.203	3/16	1/64	-628	16.85	12.64
TNMG-432	1/2	.203	3/16	1/32	-629	16.85	12.64
TNMG-433	1/2	.203	3/16	3/64	-630	16.85	12.64
TNMG-434	1/2	.203	3/16	1/16	-631	16.85	12.64
TNMG-438	1/2	.203	3/16	1/8	-632	16.85	12.64
TNMG-542	5/8	.253	1/4	1/32	-633	27.05	20.29
TNMG-543	5/8	.253	1/4	3/64	-634	27.05	20.29

NIKCOLE MINI-SYSTEMS Grooving & Cut-Off System

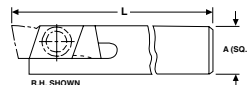
For Grooving & Cut-Off
Under .078" Width

Internal Tool Holders



Holder No.	D	H	L	L1	L2	Part No. 1-293-	Reg. Net Price	SALE!
THI-7-3/4-R	.750"	.750"	5.50"	1.00"	2.00"	-007	\$159.45	\$143.51
THI-7-3/4-L	.750"	.750"	5.50"	1.00"	2.00"	-008	159.45	143.51
THI-7-1.00-R	1.00"	.750"	6.00"	1.25"	2.50"	-009	173.55	156.20
THI-7-1.00-L	1.00"	.750"	6.00"	1.25"	2.50"	-010	173.55	156.20

Tool Holders

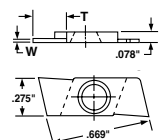


Note: Right handed inserts can only be used with right hand holders. Left handed inserts can only be used with left hand holders.

Holder No.	A*	L	Part No. 1-293-	Reg. Net Price	SALE!
THE-7-3/8-R	.375"	4.50"	-001	\$95.25	\$85.73
THE-7-3/8-L	.375"	4.50"	-002	95.25	85.73
THE-7-1/2-R	.500	4.50	-003	95.25	85.73
THE-7-1/2-L	.500	4.50	-004	95.25	85.73
THE-7-5/8-R	.625	5.00	-005	103.85	93.47
THE-7-5/8-L	.625	5.00	-006	103.85	93.47

*Square

Grooving Inserts



Insert No.	W*	T	TIN Coated		
			Part No. 1-293T-	Reg. Net Price	SALE!
GIE-7-SG-0.5-R	.019"	.100"	-001	\$28.35	\$25.52
GIE-7-SG-0.5-L	.019"	.100"	-002	28.35	25.52
GIE-7-SG-0.7-R	.027	.100	-003	28.35	25.52
GIE-7-SG-0.7-L	.027	.100	-004	28.35	25.52
GIE-7-SG-0.8-R	.031	.100	-005	28.35	25.52
GIE-7-SG-0.8-L	.031	.100	-006	28.35	25.52
GIE-7-SG-0.9-R	.035	.100	-007	28.35	25.52
GIE-7-SG-0.9-L	.035	.100	-008	28.35	25.52
GIE-7-SG-1.1-R	.043	.235	-009	28.35	25.52
GIE-7-SG-1.1-L	.043	.235	-010	28.35	25.52
GIE-7-SG-1.3-R	.051	.235	-011	28.35	25.52
GIE-7-SG-1.3-L	.051	.235	-012	28.35	25.52
GIE-7-SG-1.6-R	.063	.235	-013	28.35	25.52
GIE-7-SG-1.6-L	.063	.235	-014	28.35	25.52
GIE-7-SG-1.85-R	.073	.235	-015	28.35	25.52
GIE-7-SG-1.85-L	.073	.235	-016	28.35	25.52

MTJNR Indexable Toolholders

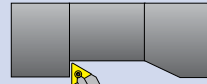
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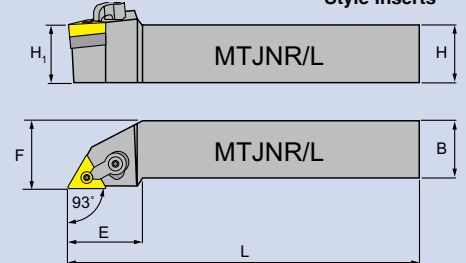
For use with
TNMG
Style Inserts

FEATURES:

- For use with 60° triangular negative clearance TNMG inserts.
- 3° side cutting edge angle.

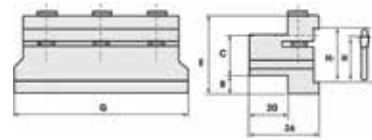


RIGHT HAND
SHOWN
LEFT HAND
OPPOSITE



Tool Style	Width B	Height H	Length L	F	TNMG Insert Series	Part No. 6-740R-	Reg. Net Price	SALE!
MTJNR 10-3B	5/8"	5/8"	4-1/2"	1.675"	33	-010	\$100.29	\$80.23
MTJNR 12-3B	3/4	3/4	4-1/2"	1	33	-012	112.06	89.65
MTJNR 16-3D	1	1	6	1-1/4	33	-016	121.50	97.20
MTJNR 16-4D	1	1	6	1-1/4	43	-116	124.15	99.32
MTJNR 20-4D	1-1/4	1-1/4	6	1-1/4	43	-120	135.84	108.67
MTJNR 16-5D	1	1	6	1-1/4	54	-216	131.70	105.36
MTJNR 20-5D	1-1/4	1-1/4	6	1-1/2	54	-220	140.49	112.39
MTJNR 24-5D	1-1/2	1-1/2	6	2	54	-224	180.16	144.13
MTJNR 24-5E	1-1/2	1-1/2	7	2	54	-226	204.75	163.80
MTJNR 85-3E	1	1-1/2	7	1-1/4	54	-235	139.28	111.42

Tool Blocks One-Piece Flexible Clamp



NEW!

Block No.	Blade Size	C	H	H1	E	B	G	Part No. 6-895-	Reg. Net Price	SALE!
19-5	1.02	.790	1.02	.830	1.50	.315	3.5	-6195	\$190.42	\$161.86
19-6	1.26	.790	1.26	.970	1.89	.512	4.0	-6196	198.55	168.77
25-6	1.26	1.000	1.26	.970	1.89	.315	4.3	-6256	198.55	168.77

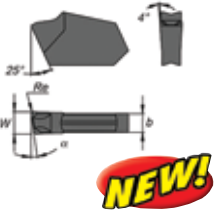
Cut-Off & Grooving GTN Inserts



Neutral - 0° Lead Angle

PH 3235 CVD coated for medium speed on all steels.

PH 5135 CVD coated for general purpose machining on all metals.



NEW!

Insert No.	W	CVD Coated - Grade PH3235			CVD Coated - Grade PH5135		
		Part No.	Reg. Net Price	SALE!	Part No.	Reg. Net Price	SALE!
GTN-2N	.087"	113-0165-37	\$14.95	\$12.71	113-0165-N2	\$17.35	\$14.75
GTN-3N	.122	113-0169-37	15.50	13.18	113-0169-N2	17.35	14.75
GTN-4N	.161	113-0174-37	16.60	14.11	113-0174-N2	17.35	14.75
GTN-5N	.201	113-0175-37	18.05	15.34	113-0175-N2	20.25	17.21

KORLOY® Style SPG Carbide Inserts

Grade TG-320 - Excellent coated grade for general purpose cuts in steel & steel alloys. Equivalent to P10-P30 grade. Recommended cutting speed 500-1000 SFM.

- Single sided.
- Clamp on insert.
- 11° relief angle.
- Use for light to medium cuts.
- Precision ground on all surfaces.
- Depth of cut - 1/64-5/64 of an inch.
- Feed rate - .002-.012 IPR (Inch/Rev.).

save
20%

ASA Code	Insert IC Size	Thickness	Corner Radius	Part No. 1-2443-	Reg. Net Price	SALE!
SPG-320	3/8"	1/8"	0"	-430	\$11.72	\$9.38
SPG-321	3/8	1/8	1/64	-460	15.39	12.31
SPG-322	3/8	1/8	1/32	-605	15.39	12.31
SPG-421	1/2	1/8	1/64	-606	16.35	13.08
SPG-422	1/2	1/8	1/32	-607	16.35	13.08
SPG-423	1/2	1/8	3/64	-608	14.59	11.67
SPG-424	1/2	1/8	1/16	-609	14.59	11.67

R-8 Round Collet Sets

- FEATURES:**
- Hardened & precision ground.
 - Made of high grade steel.
 - Internal thread 7/16" - 20.

13 Pc. Inch Set
1/8" to 7/8" by 16ths
Part No. 1-519-020
Reg. Net Price \$131.75
\$105⁴⁰



19 Pc. Metric Set
2mm to 20mm by 1mm
Part No. 1-519-019
Reg. Net Price \$193.05
\$154⁴⁴



save 20%

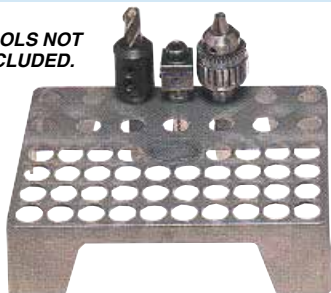


R-8 Collet Rack

TOOLS NOT INCLUDED.

Hi-impact plastic holder accommodates 14 larger tool holders. Holds a full set and emergency collets in an angled seat area - with a more secure hold.

Model R8-52
Part No. 1-588-R852 **\$43³²**
Reg. Net Price \$48.13



Jacobs Plain Bearing Key-Type Chucks

The Jacobs® Plain Bearing chuck is the world's most widely used for medium or heavy duty portable bench or floor mounted power tools. This industrial quality chuck, with fully hardened and ground working components, offers exceptionally high accuracy, gripping power and durability. Both heavy and medium duty models are available in a wide range of capacities for use on threaded and taper mounted spindles.



0 - 1/2" CAPACITY

Chuck Model	Chuck Mount	Uses Key	Sleeve Finish	Part No. 1-508-	Reg. Net Price	SALE!
34-02	2JT	K3	Fluted	-14442	\$185.19	\$157.41
34-06	6JT	K3	Fluted	-6295	200.66	170.56
34-33	33JT	K3	Fluted	-14445	209.32	177.92
34-33C*	33JT	K3	Smooth	-14451	193.42	164.40

* Equipped with Thread Locking Collar 1-1/16 - 20 Thread.

Boring Head with Shank & Carbide Tipped Boring Bar Sets

WITH R-8 REMOVABLE SHANK



9 PC. BORING BAR SET INCLUDES:

Shank Dia.	Min. Bore	Bore Depth
1/2"	5/16"	3/4"
	5/16"	1-1/8"
	5/16"	1-1/2"
	7/16"	1-1/8"
	7/16"	1-11/16"
	7/16"	2-1/4"
	9/16"	1-1/2"
	9/16"	2-1/4"
	9/16"	3"

2" Dia. Boring Head
(7/8" - 20 Mount)
w/ 9 Pc. C-6 Boring Bar Set
Part No. 1-800-922B
Reg. Net Price \$213.57
\$170⁸⁶

save 20%

12 PC. BORING BAR SET INCLUDES:

Shank Dia.	Min. Bore	Bore Depth	Shank Dia.	Min. Bore	Bore Depth
3/4"	7/16"	1-1/4"	3/4"	11/16"	1-7/8"
	7/16"	1-11/16"		11/16"	2-13/16"
	7/16"	2-1/4"		11/16"	3-3/4"
	9/16"	1-1/2"		13/16"	2-1/4"
	9/16"	2-1/4"		13/16"	3-3/8"
	9/16"	3"		13/16"	4-1/2"

3" Dia. Boring Head
(1-1/2" - 18 Mount)
w/ 12 Pc. C-6 Boring Bar Set
Part No. 1-800-923B
Reg. Net Price \$299.35
\$239⁴⁸

Knurling Tool Quick-Acting Clamp Type

Knurling pressure is absorbed between the knurls, NOT your lathe bed, compound, centers or feed screws. Fast setup. Instantly ready for knurling. Knurling patterns are clean and sharp with no double tracking. Furnished complete with one set of diagonal knurls.
Size: 3/4" x 3/8" x 1/4"

save 20%



High Speed Knurls

Normal Circular TPI	Straight Tooth			30° Diagonal Tooth		
	Part No. 1-587-	Our Net Price Per Pair	SALE!	Part No. 1-587-	Our Net Price Per Pair	SALE!
12	-S212	\$38.84	\$31.07	-D212	\$38.84	\$31.07
16	-S216	38.84	31.07	-D216	38.84	31.07
20	-S220	38.84	31.07	-D220	38.84	31.07
25	-S225	38.84	31.07	-D225	38.84	31.07

save 20%

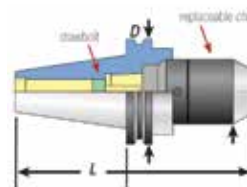


CAT 40

V-Flange Keyless Drill Chuck

FEATURES:

- 3x more holding power than other chucks.
- Holds non-standard shank sizes up to 1/2".
- Replaceable chuck is held by a drawbolt.
- Powerful drawbolt holds chuck tight.



1/2" Drill Chuck
(L) Proj. 4" / (D) Dia. 2.5"
Part No. 7-520-22403
Reg. Net Price \$316.20

\$284⁵⁸



TECO Single Station Machine Vises

FEATURES:

- Footprint and distance from keyway to stationary jaw same as major competitor.
- Sealed bearing system reduces clamping pressure and increases bearing life.
- Repeatability within 0.001".
- Hardened vise bed and jaw plates.
- Outside rail edges of the body are machined.
- Stationary jaw has machined keyway for alignment of the vise and includes alignment rail for quick setups.
- Limited Life Time Warranty.



6" Single Station Vise

Featuring the largest opening in its class of nine inches and a more robust main screw that can handle higher torque loads and transmit higher clamping pressure. The angled slide and locking jaw design prevents lifting of the moveable jaw. Up to 8,200 lbs. of clamping force. Bed height matched to size 2.875" (73.025mm) +/- 0.0005".

SPECIFICATIONS:

Max. Jaw Opening	9"
Jaw Width	5.94"
Jaw Depth	1.75"
Vise Length	17.206"
Vise Width	8.77"
Weight	81 Lbs.

Part No. 1-903-PWS6900 **\$665⁰⁰**
Reg. Net Price \$785.59

8" Single Station Vise

Featuring the largest opening in its class of eleven inches and a more robust main screw that can handle higher torque loads and transmit higher clamping pressure. An angled slide and locking jaw design to prevent lifting of the moveable jaw, and the four bolt design on the stationary jaw reduces deflection by 25%. Up to 12,000 lbs. of clamping force. Bed height matched to size 3.310" (84.07mm) +/- 0.0005".

SPECIFICATIONS:

Max. Jaw Opening	11"
Jaw Width	8"
Jaw Depth	2.2"
Vise Length	21.81"
Vise Width	11.5"
Weight	175 Lbs.

Part No. 1-903-PWS8110 **\$1,700⁰⁰**
Reg. Net Price \$1,898.35



6 Pc. Quick Change Tool Post Sets

All Toolholders Interchangeable with Aloris Type Toolholders.



Lathe Swing Up to 12"

SET INCLUDES:

- Piston Type Tool Post Series 100 (100).
- Turning & Facing Holder #1 (101).
- Boring, Turning & Face Holder #2 (102).
- Heavy-Duty Boring Bar Holder #4 (104).
- Universal Parting Blade Holder (107).
- Knurling, Turning & Facing Holder (110).

Part No. 1-459-500
Reg. Net Price \$400.60

\$320⁴⁸

Lathe Swing 10 to 15"

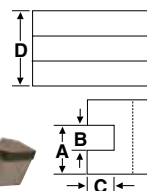
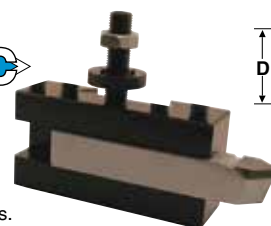
SET INCLUDES:

- Piston Type Tool Post Series 200 (200).
- Turning & Facing Holder #1 (201).
- Boring, Turning & Face Holder #2 (202).
- Heavy-Duty Boring Bar Holder #4 (204).
- Universal Parting Blade Holder (207).
- Knurling, Turning & Facing Holder (210).

Part No. 1-459-600
Reg. Net Price \$449.50

\$359⁶⁰

Turning & Facing Holder #1

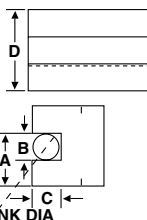


Takes various sizes of bits. Turning and facing tools can be locked in together. Saves time and labor when changing operations.

A	B	C	D	Max. Tool Bit	Part No. 1-459-	Reg. Net Price	SALE!
15/16" 1-1/8"	1/2" 5/8"	7/16" 1/2"	1-1/2" 1-3/4"	3/16-1/2" 1/4-5/8"	-101 -201	\$43.90 51.15	\$37.32 43.48

TOOLBIT NOT INCLUDED.

Boring, Turning & Facing Holder #2



V groove holds round shank boring bars and tools as well as square tool bits.

BORING BAR NOT INCLUDED.

A	B	C	D	Max. Tool Bit	Shank	Part No. 1-459-	Reg. Net Price	SALE!
15/16" 1-1/8"	1/2" 5/8"	7/16" 1/2"	1-1/2" 1-3/4"	3/16-1/2" 1/4-5/8"	7/16" 1/2"	-102 -202	\$46.75 52.10	\$39.74 44.29

ROYAL PRODUCTS

Chuck Stop Sets



FEATURES:

- The Royal Chuck Stop provides a simple, consistent method for locating short parts in a 3-jaw lathe chuck by allowing short parts to project past the chuck jaws, providing clearance for facing operations.
- The Royal Chuck Stop is very accurate - front and back locating surfaces are parallel within $\pm 0.0004"$.
- Setup time is greatly reduced - no need to bore soft jaws.
- Captive, web-shaped design eliminates the danger of using spacers or parallels that could come loose and be thrown from a spinning chuck. Three strong magnets further secure the stop to the chuck face.
- Slot width can be easily enlarged for wider chuck jaws.
- Anodized finish provides good wear-resistance.

Description	Part No. 1-533-	Reg. Net Price	SALE!
3 Pc Set - Includes 15, 20 & 25mm	-25200	\$457.25	\$411.53
5 Pc Set - Includes 15, 20, 25, 30 & 35	-25210	795.15	715.64

Compound Slide Table

A heavy, rugged slide used in all kinds of positioning, milling, drilling, microscope viewing and staging.



SPECIFICATIONS:

Table	12"
Height	4-1/2"
Travel	6-1/2" longitudinal, 4-1/2" transverse
T-Slot Size	9/16"
Weight	36 lbs.



Part No. 8-400-310
Reg. Net Price \$283.45

\$212⁵⁹

Shop Vises



FEATURES:

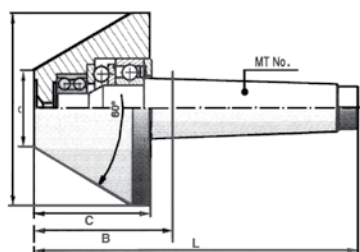
- Replaceable serrated top jaws.
- 360° swivel base with double lockdown for quick and easy positioning.
- Designed for general duty applications.
- Built in pipe jaws handle various pipe sizes.
- Rubber pinch point safety guards.
- Large anvil work surface.

Jaw Width	Max. Opening	Jaw Depth	Weight (lbs.)	Part No. 1-550-	Reg. Net Price	SALE!
4"	4"	2-3/4"	22	-63300	\$223.98	\$190.38
5"	5"	3"	31	-63301	268.77	228.45
6"	6"	3-1/2"	42	-63302	395.25	335.96
8"	8"	4"	71	-63304	592.88	503.95

tmx

Bull Head Live Centers

TRIPLE BEARING DESIGN



FEATURES:

- Three matched bearings are preloaded at the factory providing good thrust and radial capabilities.
- Bearings are protected by a special seal.
- Centers are designed to hold pipe and hollow work.
- Head is made of high carbon alloy steel, heat treated to RC61-63 with a 60° head angle.

Morse Taper	D	A	B	C	L	Max. RPM	Max. Net Weight of Workpiece (lbs.)	Weight of Center (lbs.)	Part No. 7-575-	Reg. Net Price	SALE!
1	1.97"	.79"	1.56"	1.38"	3.66"	5,000	220	.77	-010	\$161.10	\$136.94
2	2.36"	1.18"	1.60"	1.38"	4.11"	5,000	400	1.32	-020	189.55	161.12
2	3.15"	1.18"	2.32"	2.09"	4.84"	4,500	660	2.76	-021	292.00	248.20
3	3.15"	1.18"	2.32"	2.09"	5.51"	4,500	770	2.98	-030	296.60	252.11
3	3.93"	1.57"	2.64"	2.40"	5.83"	3,000	1,210	5.07	-031	417.65	355.00
4	3.93"	1.57"	2.70"	2.40"	6.73"	3,000	1,320	5.62	-040	400.85	340.72
4	5.51"	2.76"	3.05"	2.76"	7.09"	3,000	1,540	11.00	-042	461.35	392.15
5	6.69"	3.94"	3.05"	2.76"	8.15"	2,000	1,653	17.60	-051	577.25	490.66
6	11.50"	7.09"	4.57"	4.21"	11.73"	1,000	4,400	75.00	-060	2266.80	1926.78



Reducing Sleeves



Adapt small taper tools to larger size spindles. Outside taper is precision ground for excellent concentricity of the holder.

Morse Taper Inside	Morse Taper Outside	Gage Line Dia.	Projection	Part No. 1-543-	Reg. Net Price	SALE!
1	2	.700"	5/8"	-60212	\$34.10	\$28.99
1	3	.938	1/4"	-60213	37.20	31.62
2	3	.938	3/4"	-60223	37.20	31.62
2	4	1.231	1/4"	-60224	44.95	38.21
3	4	1.231	3/4"	-60234	58.90	50.07
3	5	1.748	1/4"	-60235	93.00	79.05
4	5	1.748	3/4"	-60245	93.00	79.05

tmx R-8 Shank ER Collet Chucks

FEATURES:

- ER 16: Hex Nut
- Draw Bar Thread: 7/16"-20
- Collet changes minimized due to large holding range of each collet.
- Concentricity guaranteed to .0004".
- ER 20, ER 25, ER 32 & ER 40: Round Nut
- Exclusive self-releasing system reduces sticking.



Collet Size	Gage Length (A)	Dia. (D)	OAL	Part No. 7-171-	Reg. Net Price	SALE!
ER-16	1.49"	1.26"	6.25"	-1608	\$207.48	\$176.36
ER-20	1.77	1.38	6.25	-2008	207.53	176.40
ER-25	1.97	1.65	6.25	-2508	212.85	180.92
ER-32	2.28	1.97	6.25	-3008	214.54	182.36
ER-40	2.36	2.48	6.50	-4008	231.77	197.00

NEW!
EXPANDED LISTING!



CAT 40 V-Flange ER Collet Chucks

FEATURES:

- Maximum T.I.R. 0.0001" taper to collet pocket.
- Balanced to 25,000 RPM at G2.5 for high speed.
- PowerCOAT included for 75% more clamping power.

Cutting tool life is reduced by 10% with every .0001" of T.I.R. Techniks improves cutting tool life and saves you money.



Produced According to AT3 Specifications.

Collet Size	Gage Length	Nose Dia.	Part No. 7-520-	Reg. Net Price	SALE!
ER-11	3"	.748"	-22213	\$197.65	\$168.00
ER-16	2.76	1.260	-22225	197.65	168.00
ER-16	4	1.260	-22227	200.30	170.26
ER-20	2.76	1.380	-22235	197.65	168.00
ER-20	4	1.380	-22237	200.30	170.26
ER-32	2.76	1.970	-22253	213.45	181.43
ER-32	4	1.970	-22255	213.45	181.43
ER-40	3.15	2.480	-22261	222.70	189.30



ER Collet Sets

18 Pc. ER 32 Collet Set

Collets in Set: 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2, 17/32, 9/16, 19/32, 5/8, 21/32, 11/16, 23/32, 3/4"

Part No. 7-520-04212 **\$482¹¹**
Reg. Net Price \$602.64

7 Pc. ER 11 Collet Set

Collets in Set: 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4"

Part No. 7-520-04208 **\$167¹⁵**
Reg. Net Price \$208.94

12 Pc. ER 20 Collet Set

Collet in Set: 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2"

Part No. 7-520-04210 **\$303⁵⁵**
Reg. Net Price \$379.44

10 Pc. ER 16 Collet Set

Collets in Set: 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8"

Part No. 7-520-04209 **\$231⁶³**
Reg. Net Price \$289.54

13 Pc. ER 40 Collet Set

Collets in Set: 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 1"

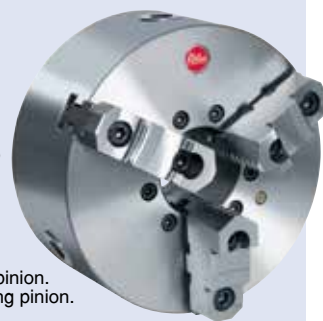
Part No. 7-520-04213 **\$386⁸⁸**
Reg. Net Price \$483.60



save 20%



3-Jaw Universal Iron Body Chucks



FEATURES:

- Hardened scroll.
- Semi steel bodies.
- Three hardened pinions.
- High value and lower cost.
- Max. .003" TIR using nominating pinion.
- .001" repeatability using nominating pinion.
- One year warranty.

TYPE D SPINDLE with 2 Piece Reversible Jaws

Chuck Dia.	Spindle	Weight (lbs.)	Part No. 1-495-	Reg. Net Price	SALE!
6"	D-4	22	-0634	\$581.25	\$494.06
8"	D-4	43	-0834	697.50	592.88
8"	D-5	44	-0835	697.50	592.88
8"	D-6	44	-0836	697.50	592.88
10"	D-5	73	-1035	953.25	810.26
10"	D-6	74	-1036	953.25	810.26
10"	D-8	75	-1038	953.25	810.26
12"	D-6	127	-1236	1379.50	1172.58
12"	D-8	128	-1238	1379.50	1172.58
16"	D-8	222	-1638	2464.50	2094.83
16"	D-11	210	-1631	2464.50	2094.83

Series 342

Medium Duty

Value Line



FLEXBAR LATHEGUARD

Neither razor-sharp chips nor broken tool bits will penetrate the Lexan® shield.

FEATURES:

- Rib reinforced.
- Light in weight.
- Swings away easily.
- Robust construction.



Suggested Lathe Size	Center Height (A)	Use With Chucks	Part No. 1-495-	Reg. Net Price	SALE!
Very Small Lathes	3.9"	Up to 6" Dia.	-12999	\$220.10	\$198.09
6 to 12	6	Up to 8 Dia.	-13060	246.45	221.81
12 to 16	8	Up to 12 Dia.	-13061	277.45	249.71
16 to 20	10	Up to 16 Dia.	-13062	302.25	272.03
20 to 24	13	Up to 20 Dia.	-13064	348.75	313.88

Four-Jaw Independent Chucks

Semi-Steel Body

The chuck body is made of cast iron. The solid reversible jaws and operation screw are made of high quality carbon steel jaws and are hardened precision ground.



save 20%

PLAIN BACK w/ Solid Reversible Jaws

Chuck Dia.	Weight (lbs.)	Part No. 6-318-	Reg. Net Price	SALE!
6"	9	-004	\$239.32	\$191.46
8"	32	-005	306.90	245.52
10"	55	-010	337.13	269.70



ECLIPSE MAGNETICS Button Type Magnets

Small but powerful magnets with almost unlimited applications. Has a center hole for easy fastening. With keeper.

Diameter	Height	Pull (lbs.)	Part No. 1-805-	Reg. Net Price	SALE!
1/2"	3/8"	1-1/2	-372A	\$6.82	\$5.80
3/4"	1/2"	4	-372B	9.77	8.30
1	5/8"	6-1/4	-372C	12.79	10.87
1-1/4	3/4"	14	-372D	30.15	25.63
1-1/2	7/8"	18-1/2	-372E	42.78	36.36



PALMGREN

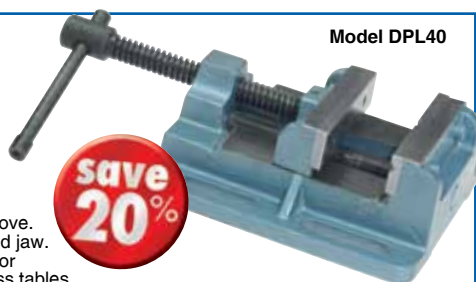
Low Profile Drill Press Vises

Model DPL40

FEATURES:

- Replaceable jaws.
- Movable jaw on the DPL30 & 40 has a vertical and horizontal V-groove.
- DPL60 smooth jaw; DPL80 stepped jaw.
- Base has four 1/2" shoulder slots for quick, easy positioning on drill press tables.

Model No.	Jaw Width	Jaw Depth	Jaw Opening	Height	Weight (lbs.)	Part No. 1-549-	Reg. Net Price	SALE!
DPL30	3"	1-1/8"	3"	2-7/16"	10	-DPL30	\$73.63	\$58.90
DPL40	4"	1-1/2"	4"	2-7/8"	15	-DPL40	112.38	89.90
DPL60	6"	2"	6"	3-9/16"	34	-DPL60	254.98	203.98
DPL80	8"	2"	8"	3-9/16"	54	-DPL80	386.73	309.38



Huot ToolScoop™ CNC Tool Cart

FEATURES:

- Lower shelf angled for quick, easy tool access from either side.
- Solid, interlocking side panel construction for maximum strength and stability.
- Quality and mobility at an affordable price.
- Heavy duty 5" x 1-1/4" casters load rated at 1,000 lbs.
- All steel painted with our durable Ecolo-Clad in red & black.
- 2 end storage trays with universal mounting holes for tool lock.
- Durable nylon inserts on shelves help protect tool holders.



Weight: 75 lbs.
Dimensions:
18"W x 35-1/4"L x 35"H

40 BT, CAT V-Flange,
NMTB / Tool Cap. 48

Part No. 1-030-13940
Reg. Net Price \$726.95

\$617⁹¹



EDGE TECHNOLOGY

Tailstock Alignment Bar

NEW!

FEATURES:

- Hardened steel bar ends are precision ground after assembly for superior accuracy. Bar end diameters are equal within 0.0001".
- Bar made from high strength aluminum.
- Durable anodized finish.

Part No. 1-811-27000
Reg. Net Price \$108.48

\$81³⁶

Used to align the tailstock to the headstock. Accurate alignment is critical to eliminate any taper in work pieces supported by the tail stock. Makes the process fast, easy and accurate.



EDGE TECHNOLOGY

Pro Mill Stop Table Mount

NEW!

FEATURES:

- Versatile design allows the 1/4" hardened stop rod to be quickly and accurately positioned.
- Stop rod stays parallel to the milling machine table so workpiece will contact rod face squarely for increased accuracy.
- Lever arm can be rotated out of the way for cutter clearance and accurately relocated for repeat setup. (loosening and retightening of screw is required)
- Base of unit is keyed to T-slot in table.
- Large 1/2"-13 bolt used to rigidly attach lever arm to base.
- Non-marring 1/4"-20 nylon tip set screw used to secure stop rod mount without damage to lever arm.
- Non-marring 1/4"-20 flat point set screw used to secure stop rod without damage.
- T-nut included.

Table Slot Width: 5/8"

Part No. 1-811-16000
Reg. Net Price \$92.98

\$79⁰³



Straight Shank Double Angle Collet Chucks



Collet Size	Shank Dia. (A)	Shank Length (B)	Head Length (C)	Part No. 1-543-	Reg. Net Price	SALE!
DA100	1"	5-1/2"	1-13/16"	-76545	\$153.45	\$130.43
DA180	1-1/4"	5-17/32"	1-3/4"	-76547	181.35	154.15
DA200	3/4"	5-1/2"	1-5/8"	-76543	145.70	123.85
DA300	1/2"	5-1/2"	1-5/16"	-76541	128.65	109.35



Double Angle Collets

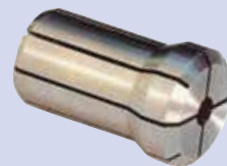


FEATURES:

- Full 1/32" range of collapse.
- Concentricity with 0.0004" TIR at collet nose assembled with chuck.
- Interchangeable with all DA collets and collet chucks.
- Self release for rapid, easy operation.

DIMENSIONS

Collet Series	Dia. D	Length L	Collet Series	Dia. D	Length L
DA 100	0.769"	1.438"	DA 200	0.531"	1.188"
DA 180	1.035	1.625	DA 300	0.375	1.000



DA 100 SERIES

Size	Part No. 7-167-	Reg. Net Price	SALE!
1/16"	-031	\$16.75	\$14.24
1/8"	-035	16.75	14.24
3/16"	-039	16.75	14.24
1/4"	-043	16.75	14.24
5/16"	-047	16.75	14.24
3/8"	-051	16.75	14.24
7/16"	-055	16.75	14.24
1/2"	-059	16.75	14.24

DA 180 SERIES

Size	Part No. 7-167-	Reg. Net Price	SALE!
1/16"	-106	\$21.10	\$17.94
1/8"	-110	21.10	17.94
3/16"	-114	21.10	17.94
1/4"	-118	21.10	17.94
5/16"	-122	21.10	17.94
3/8"	-126	21.10	17.94
7/16"	-130	21.10	17.94
1/2"	-134	21.10	17.94

DA 200 SERIES

Size	Part No. 7-167-	Reg. Net Price	SALE!
1/16"	-235	\$16.75	\$14.24
1/8"	-240	16.75	14.24
3/16"	-244	16.75	14.24
1/4"	-248	16.75	14.24
5/16"	-252	16.75	14.24
3/8"	-256	16.75	14.24

DA 300 SERIES

Size	Part No. 7-167-	Reg. Net Price	SALE!
1/16"	-325	\$16.75	\$14.24
1/8"	-330	16.75	14.24
3/16"	-334	16.75	14.24
1/4"	-338	16.75	14.24

LFA® Heavy-Duty Keyless Precision Chucks

"New Design" keyless - ball bearing. Hand locking & self tightening. Precision quality - light weight. High degree of accuracy. Maximum life.

Chuck Model	Jacobs Equiv.	Capacity Inches	Tapered Mount	Part No. 1-509-	Reg. Net Price	NOW!
61BA	65 J1	0 - 5/16	1JT	-005	\$182.28	\$154.94
62A	100 J2	0 - 3/8	2JT	-010	180.19	153.16
63A		1/64 - 1/2	33JT	-015	180.19	153.16
64A	160 J6	1/8 - 5/8	6JT	-020	228.32	194.07

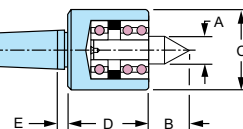


Econo Tri-Bearing Live Centers



FEATURES:

- Three rows of bearings.
- Points are through-hardened to 61-63 Rc.
- Accuracy guaranteed to ±0.00005 or better.
- Sealed bearings lubricated for life, protected against contaminant's and coolant.
- 2,500 max. RPM.



Morse Taper	A	B	C	D	E	Max. Workpiece Weight (lbs.)	Part No. 1-435-	Reg. Net Price	SALE!
2	9/16"	13/16"	1-5/8"	1-5/8"	1/4"	300	-44102	\$291.40	\$247.69
3	13/16"	1	2	1-15/16"	1/4"	500	-44103	300.70	255.60
4	1	1-1/4"	2-3/8"	2-1/4"	1/4"	1,100	-44104	399.90	339.92
5	1	1-1/4"	2-3/8"	2-1/4"	1/4"	1,100	-44105	542.50	461.13

TRIUMPH PLUS Flap Discs

FEATURES:

- Provides better quality and consistency of surface finish.
- Gives up to 30x more life than a resin fiber-disc saving considerable set-up time and money.
- Cuts much cooler and reduces glazing and loading with self sharpening flaps.
- Especially lightweight design reduces operator fatigue and noise levels.

FULLY GUARANTEED



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°.

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



Size	Grit	TYPE 27			TYPE 29		
		Part No. 1-704-	Reg. Net Price/Ea.	SALE!	Part No. 1-704 -	Reg. Net Price/Ea.	SALE!
4-1/2" x 7/8"	40	-2302	\$5.43	\$4.89	-2322	\$5.43	\$4.89
13,300 RPM	60	-2304	5.43	4.89	-2324	5.43	4.89
	80	-2305	5.43	4.89	-2325	5.43	4.89

SA STANDARD ABRASIVES Convolute Wheels GP Plus

SILICONE CARBIDE (SC)

- Silicon carbide cuts faster and leaves a finer finish.
- Silicon carbide is best for finishing applications.

FEATURES:

- Provide the highest durability for the toughest edge and flat surface deburring applications, producing a smear resistant finish, while maintaining wheel shape in the most aggressive applications.



Size	Grade	Density	Grain	Grit	Max. RPM	Part No. 1-631-	Reg. Net Price	SALE!
6" x 1/2" x 1"	8AM	Hard	A/O	Medium	6,000	-853042	\$86.13	\$73.21
6" x 1/2" x 1"	8SF	Hard	S/C	Fine	6,000	-853053	83.31	70.81
6" x 1/2" x 1"	8SM	Hard	S/C	Medium	6,000	-853052	84.29	71.65
6" x 1/2" x 1"	9SF	Extra Hard	S/C	Fine	6,000	-854053	83.31	70.81
6" x 1/2" x 1"	10SF	Hardest	S/C	Fine	6,000	-855053	83.31	70.81
6" x 1" x 1"	8AM	Hard	A/O	Medium	6,000	-853142	120.61	102.52
6" x 1" x 1"	8SF	Hard	S/C	Fine	6,000	-853153	116.63	99.14
6" x 1" x 1"	8SM	Hard	S/C	Medium	6,000	-853152	117.99	100.29
6" x 1" x 1"	9SF	Extra Hard	S/C	Fine	6,000	-854153	116.63	99.14
6" x 1" x 1"	10SF	Hardest	S/C	Fine	6,000	-855153	116.63	99.14
8" x 1" x 3"	8AM	Hard	A/O	Medium	4,500	-853342	150.87	128.24
8" x 1" x 3"	8SF	Hard	S/C	Fine	4,500	-853353	145.87	123.99
8" x 1" x 3"	8SM	Hard	S/C	Medium	4,500	-853352	147.52	125.39
8" x 1" x 3"	9SF	Extra Hard	S/C	Fine	4,500	-854353	145.87	123.99
8" x 1" x 3"	10SF	Hardest	S/C	Fine	4,500	-855353	145.87	123.99

TRIUMPH PLUS Surface Grinding Wheels

White Aluminum Oxide

Balanced - Cool Cutting Vitrified Bond

FEATURES:

- For grinding hardened tool steel.
- Porous composition resists wheel loading; cooler, free grinding.
- Best for grinding hard materials or thin, heat-sensitive workpieces.

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

Grit	Part No. 1-704-	Reg. Net Price	SALE!
46-H	-008	\$27.67	\$23.52
46-I	-058	27.67	23.52
46-J	-088	27.67	23.52
46-K	-118	27.67	23.52
60-L	-180	27.67	23.52
60-K	-244	27.67	23.52



"PREMIUM WHITE GRAIN"



Mini-Grinder Brushes

5/8"-11 THREADED HOLE



WIRE SIZE .020"

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 & multiple arbor hole adaptation covers both light and heavy-duty cleaning jobs. Carbon steel wire.



Knot Style Cup Wheel

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

Part No. 1-621-115

Reg. Net Price \$27.25

\$23¹⁶



Stringer Bead Twist Wheel

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

Part No. 1-621-117

Reg. Net Price \$26.05

\$22¹⁴



Type SM Shank Mounted Buffing Wheels

Size	Part No. 1-442-	Reg. Net Price	SALE!
2"	-SM2	\$9.85	\$8.87
3"	-SM3	11.55	10.40
4"	-SM4	14.90	13.41

1/4" Stem
1/2" Thick



NOGA Double Burr

Model DB1000

Part No. 1-457-519

Reg. Net Price \$24.57

\$22¹¹



Simultaneously removes burrs from both sides of sheet metal. For corners, use one blade only. Includes DB handle, hand guard and two N80 blades.

N80 BLADES

All blades are made of HSS. Hardness 62-64Rc except N80M42.

Blade	Range	Part No. 1-457-	ONLY!
N80	0" to 15/32"	-716	\$5.33
N80M42	0" to 15/32"	-717	7.15

Nicholson Flat Files Bastard Cut



FEATURES:

- Double-cut on sides, single-cut on edges.
- File tapers toward the point for detail.

Size	Per Box	Part No. 1-552-	Reg. Net Price Ea.	SALE!
6"	12	-03467	\$12.20	\$9.76
8"	12	-03566	15.17	12.14
10"	6	-03665	18.77	15.02
12"	6	-03764	25.70	20.56



1/4" Grinding Depressed Center Wheels

TYPE 27

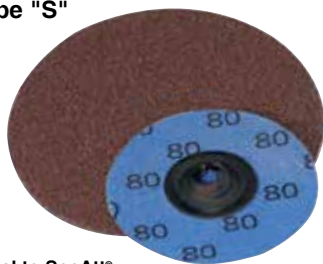
A24R Aluminum Oxide Grain: #1 selling 1/4" Depressed Center Grinding Wheel. R-grade bond for longer life and excellent stock removal.

Size	Max. RPM	Part No. 1-602-	ONLY!
4-1/2" x 1/4" x 7/8"	13,300	-35620	\$3.07
5" x 1/4" x 7/8"	12,250	-35626	3.95
7" x 1/4" x 7/8"	8,600	-35640	5.27



SUPERIOR
ABRASIVES

SHUR-KUT® Quick Change Discs Type "S"



Equal to SocAtt®, PowerLock II®, & Roloc TSM®

FEATURES:

- Achieve various finish gradients with 180 grit.
- Mold and cavity grinding.
- Weld removal in grits 36-60.
- General purpose grinding aid and aggressive stock removal.
- Blending of pits, gouges, & surface imperfections use grits 80-120.
- Deburring, edge breaking, surface leveling.

PREMIUM A/O

Size	Grit	Part No. 1-613-	ONLY!
2" 100/box	24	-11110	\$.76
	36	-11111	.71
	40	-11112	.69
	50	-11113	.67
	60	-11114	.63
	80	-11115	.63
	100	-11116	.63
	120	-11117	.63
	180	-11119	.63

2" Type "S" Turn-On Disc Holders with Mandrel

1/4" SHANK

Medium Density
Part No. 1-613-11173
\$8.54

Interchangeable with 3M Roloc TS discs, Merit Type II Twist-On, Norton Speed-Lok

SHAVIV Long Reach Bonus Packs

Bonus packs include 10 blades, **PLUS** a Free Mango II handle!

save 25%

B10 Blades w/ Holder B
Part No. 1-457-300
Reg. Net Price \$25.23

\$18.92

E100 Blades w/ Holder E
Part No. 1-457-350
Reg. Net Price \$34.04

\$25.53



TRIUMPH PLUS

Ruby Surface Grinding Wheels

For High Speed & High Chrome Steels

FULLY GUARANTEED

7" x 1/2" x 1-1/4" - 3,760 RPM

Grit	Part No. 1-705-	Reg. Net Price	SALE!
46-J/K	-005	\$26.82	\$24.14
60-J/K	-010	26.82	24.14



CGW
CAMEL GRINDING WHEELS

AZ Surface Grinding Wheels

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

Grit	Part No. 1-595-	Reg. Net Price	SALE!
46-H	-34350	\$30.54	\$25.96
46-I	-34351	30.54	25.96
46-J	-34352	30.54	25.96
46-K	-34353	30.54	25.96
60-H	-34354	30.54	25.96
60-I	-34355	30.54	25.96
60-J	-34356	30.54	25.96
60-K	-34357	30.54	25.96
80-K	-34358	30.54	25.96



VITRIFIED BONDED - AZ:

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.

SIMONDS
INTERNATIONAL

All-Purpose Files

Very useful for a wide range of filing applications because it has a different cut on each side. On one side, the double cut Bastard is for hogging off material quickly. The other side has a single cut for a smoother finish. One safe (uncut) edge for shoulder filing with a built-in handle, provides maximum versatility.

8" File
Part No. 1-552-07831
Reg. Net Price \$15.49
\$13.94

10" File
Part No. 1-552-07832
Reg. Net Price \$18.66
\$16.79



CARBORUNDUM

CARBO WHITECUT

Reinforced Cut-Off Wheels

FEATURES:

- Extra thin. Low kerf loss.
- Quality aluminum oxide abrasive. Quick cutting action.
- Low initial cost per wheel. Ideal for on-site and small-unit jobs.



TYPE 1

Size	Grade	Max. RPM	Part No. 1-632-	ONLY!
4-1/2"x .040"x 7/8"	A60	13,580	-61584	\$1.87
5 x .040 x 7/8	A60	12,225	-61585	2.28
6 x .040 x 7/8	A60	10,185	-61586	2.71

TYPE 1



TYPE 27

Size	Grade	Max. RPM	Part No. 1-632-	ONLY!
4-1/2"x .045"x 7/8"	A60	13,580	-36280	\$2.14
5 x .045 x 7/8	A60	12,225	-36281	2.44
6 x .045 x 7/8	A60	10,185	-36282	3.01

TYPE 27



NORTON Diamond Mounted Saw Blades 2" OAL

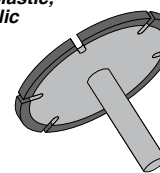
FEATURES:

- Economical.
- Exposed particles.
- Nickel alloy matrix.
- Tough, durable bond.
- Single layer of abrasive.
- Aggressive cutting action.

Use Diamond on non-ferrous material.

Ideal for cutting-off highly abrasive materials such as alumina, plastic, fiberglass, & other nonmetallic composite materials.

Dia.	OAL Thick	Shank Dia.	Grit	Part No. 1-632-	Reg. Net Price	SALE!
1"	3/32"	1/4"	40	-95422	\$130.90	\$111.27
1-1/2	3/32	1/4	40	-95423	151.80	129.03
2	3/32	3/8	40	-95424	192.80	163.88
3	1/8	1/2	40	-95425	284.05	241.44



DIESMOND® Grinding Wheel Dresser

MADE IN THE USA



Fulfill most general dressing needs where fast dressing is the primary requirement. Diameter Up to 10", Face 2".

No. 0 Complete Dresser
Part No. 1-607-125
Reg. Net Price \$31.23
\$28.11

No. 0 Replacement Cutter
Part No. 1-607-140
Reg Net Price \$4.68

Fowler XTENDER Dial Bore Gage Set

- FEATURES:**
- Depth: 9.5"
 - Easy-to-read.
 - Insulated grip.
 - Self centering.
 - Carbide anvils.
 - Easily adjustable.
 - Chrome plated handle.
 - Graduation: .0005"

Includes 2" extension holder and fitted case.

Range: 1.4-6"

Part No. 52-646-400

Reg. Net Price \$206.38

\$165¹⁰



save 20%

Starrett 4 Pc. 12" Combination Square Set

Series 9

FEATURES:

- With reversible lock bolts, scriber, spirit level in both square head and protractor head, direct reading double 180° protractor scale, hardened steel, machine-divided blade.
- Cast iron heads with black wrinkle finish.
- Square head, center head and non-reversible protractor head and blade.



Starrett #9-12-4R

Part No. 1-855-50042

Reg. Net Price \$288.00

\$244⁸⁰

GRADUATIONS:

No. 4R - 8ths, 16ths, Quick Reading 32nds, 64ths



60° Center Gages

FEATURES:

- Micro-fine graduations 14ths and 20th on one side, 24ths and 32nds on the other.
- Features a table of double depths of threads for selecting size of tap drills.
- Made of hardened, spring tempered steel with satin chrome finish.

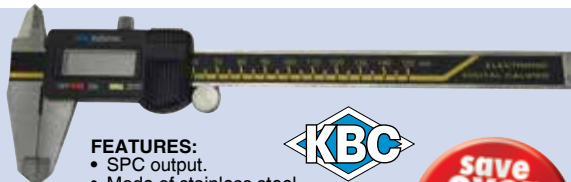
Part No. 1-804-517

Reg. Net Price \$13.05

\$11⁷⁵



Electronic Digital Calipers



FEATURES:

- SPC output.
- Made of stainless steel.
- Range: 0-6" (150mm)
- Resolution: .0005" (.01mm)
- ON/OFF Button, Inch/mm conversion, and Zero Set.
- 4 way measurement.
- Includes plastic case.

Part No. 1-812-550

Reg. Net Price \$84.86

\$55⁰⁰



save over 35%

81 Pc. Certified Gage Block Sets

Toolroom Grade

SET FEATURES:

- Hardened to 65 RC.
- Tolerance: +/- .000050"
- Surface finish: .4 millionths (.01 microns).
- Meets or exceeds federal spec ASME B89.1.9-2002.
- Available with: ISO 17025 certificate of calibration, shows deviation of each block and is signed by a U.S. inspector or a certificate of calibration traceable to N.I.S.T showing deviation of each block.
- Manufactured in a controlled environment to ensure accuracy.

SETS INCLUDE:

- 1 Block .05"
- 10 Blocks .1"-1.009" in .0001" Steps
- 49 Blocks .101"-.149" in .001" Steps
- 17 Blocks .15"-.95" in .05" Steps
- 4 Blocks 1"-4" in 1" Steps

Includes a fitted case.



NIST Certified

Part No. 2-670-081

Reg. Net Price \$216.69

\$184¹⁹

ISO Certified

Part No. 2-670-084

Reg. Net Price \$579.16

\$492²⁹

Fowler X-BLOX V-Block Set

Supplied with a shop hardened case.

FEATURES:

- 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 and parallel within .0005".

4 Blocks & 4 Clamps

Part No. 52-475-500

Reg. Net Price \$156.11

\$124⁹⁵



Mitutoyo Heavy Duty Type Digimatic Height Gages

Series 192

FEATURES:

- 2 Measuring Modes: ABS (absolute) and INC (incremental), for increased inspection efficiency.
- Rigid construction ensures repeatable measurements.
- Display: LCD, height 394", 6 digits & a minus sign (-).
- Functions Include: Zero-setting (ABS & INC modes), Origin Restoration, Presetting Value Memory (ABS mode), Data Hold, Inch/mm Conversion, Coarse/Fine Feed Switching, Counting Direction, Error Alarm, Low Battery Alarm.
- Standard long scriber (5.90") carbide-tipped.
- Bi-directional touch signal probe for improved efficiency and reliability of measurement.
- 1 CR2032 Lithium cell battery supplied.
- Includes a data output port for connection with the SPC system.

CONTROL PANEL FEATURES:

- Mode Switch
- ON/OFF Switch
- Zero/ABS Switch
- Data/Hold Switch
- Inch/Metric Switch
- Counting Direction Switch

SHOWN WITH OPTIONAL TOUCH PROBE



Starrett Electronic Height Gage

FEATURES:

- Linear Accuracy: ±.001" (±.02mm)
- Hardened, ground, and lapped base.
- Long life hardened, stainless steel bar.
- Slide lock & fine adjustment thumb roll.
- Range: 0-6" (0-150mm)
- Resolution: .0005" (.01mm)
- Easy-to-read LCD with .32" high characters.
- Rounded nose scriber cuts clean, sharp lines.
- Inch/millimeter conversion & zero at any position.
- Manual ON/OFF w/auto OFF after 5 min. of nonuse.
- Scriber can reference zero from the base bottom.
- Supplied in case.

Starrett #3751AZ

Part No. 1-855-12221

Reg. Net Price \$348.00

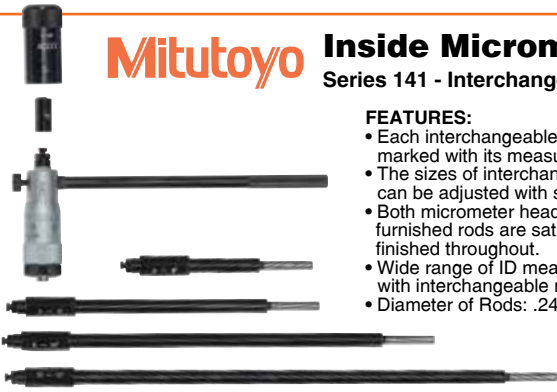
\$295⁸⁰



Range	Resolution	Accuracy	Part No. 1-808-	Reg. Net Price	SALE!
0-12" (0-300mm)	.0005" (0.01mm)	±.001"	-192670	\$2124.00	\$1805.40
0-18" (0-450mm)	.0005" (0.01mm)	±.0015"	-192671	2520.00	2142.00
0-24" (0-600mm)	.0005" (0.01mm)	±.0015"	-192672	3312.00	2815.20

Mitutoyo Inside Micrometer

Series 141 - Interchangeable Type



FEATURES:

- Each interchangeable rod is marked with its measuring range.
- The sizes of interchangeable rods can be adjusted with spacing collars.
- Both micrometer head and furnished rods are satin-chrome finished throughout.
- Wide range of ID measurements with interchangeable rods.
- Diameter of Rods: .248"

Range	Spacing Collar	Remarks	Part No. 1-808-	Reg. Net Price	SALE!
1-2"	.250"	Includes Mic Head and 2 rods	-141102	\$191.00	\$162.35
2-8"	.500"	Includes Mic Head and 3 rods	-141208	206.00	\$175.10

Mitutoyo IDU Digimatic Indicator

Series 575 - with ABSOLUTE Encoder

FEATURES:

- SPC data output.
- Unlimited response speed eliminates over-speed errors.
- Ideal for installation into measuring devices because of its compact design and long battery life.
- Employing the ABSOLUTE linear encoder, the ID-U always displays the spindle "Absolute Position" from the origin at power-on.
- Slim type digital indicator with low price.
- Flat back type only no option for backs.
- Large LCD and simple key operation.

IP 42

SPECIFICATIONS:

Range 0-1" (0-25.4mm)
Graduation0005" (0.01mm)
Accuracy0008"

Part No. 1-808-575123 **\$198⁹⁰**
Reg. Net Price \$234.00



Starrett Compact Hardness Tester

Starrett #3811A
Part No. 1-855-69881
Reg. Net Price \$2,531.00
\$2,277⁹⁰

FEATURES:

- USB output.
- Easy to use keypad operation.
- Memory capacity (100 groups).
- Large LCD display with back light.
- Auto identification of impact device.
- Automatic mean value as well as min./max. values.
- Leeb style tester designed for large, hard parts.
- Uses 2 AA alkaline batteries with low power indicator.
- Auto. conversions to Rockwell, Brinell, Vickers and Shore.

INCLUDES:

- Cleaning Brush
- Base Instrument
- Impact Device D
- Operational Manual
- Calibrated Test Block
- Custom Carrying Case

SPECIFICATIONS:

Range 200-960 HL
Min. Thickness of Sample 1"
Operating Temperature 5-104°F
Accuracy +/- 0.5%
Dimensions ... 5.96" L x 2.938" W x 1.27" H
Weight 8.6 oz.



SAVE OVER
\$250.00

NEW!

FISHER MACHINE Thread Measuring Wire Sets



Part No. 1-811-131
Reg. Net Price \$50.64
\$43⁰⁴

For measuring all 60° threads. Utilizes the three wire system of measuring external threads, accepted as the most accurate method. Kit contains 48 wires, in 16 different sizes. Measures all 60° threads from 3 to 48 TPI, and all metric threads from .5mm to 6mm pitch.



Horizontal Dial Test Indicator Set

Supplied in a fitted plastic case.

SET INCLUDES:

- Range: .030"
- Test indicator.
- Height gage bar.
- Two contact point.
- Graduation: .0005"
- Dial Reading: 0-15-0
- Contact point wrench.
- Universal Dovetail clamp.
- Dovetail Stems: 3/8" & 1/4"



save
20%

White Face
Part No. 8-100-4707 **\$65⁰⁴**
Reg. Net Price \$81.30

NEW!



Fowler COAX-2D 2 Dimensional Coaxial Indicator Set

The 2D Coaxial Set for accurate component centering and positioning in most machining applications. The 2D Coaxial indicator can be used at any angle & the dial remains stationary during the rotation of the machine spindle.

FEATURES:

- Restraining arm.
- Center point feeler.
- 3 Internal and External feelers.
- Indicator assembly with 1.6" diameter dial.
- Graduations and revolution counter .0005".
- Locating accuracy to within .0002" of true center.
- Capacity depends on feelers installed, but overall range is 5/32-12" internal diameter; 0-12" external diameter.

SPECIFICATIONS:

Length 6-7/8"
Shank 3/8" Dia. x 7/8" Long
Feeler Ball 1/8" Dia.
Dial Readings 0-40
Measuring Range250" Axis Offset
Maximum Speed 800 RPM

Part No. 52-710-025
Reg. Net Price \$265.69
\$199⁹⁵



Complete in a fitted case.

I shop at KBC Tools & Machinery because I get personalized service, they stock most of the tools I need, and they ship the same day. Most of the time their prices are much lower than their competitors which only makes it better. I count on KBC for all of my tooling needs.

— Paul
P & D Machine



NOGA Universal Test Indicator Holder

with **FREE** KBC Dial Test Indicator

NOGA HOLDER FEATURES:

- Test indicator holder arm.
- Holds indicators with 3/8" stem or dovetail.
- Most useful for centering holes on milling machine.

KBC INDICATOR FEATURES:

- .030" Range, White Face
- 1-3/16" dial face.
- Graduation: .0005"
- Dial Reading: 0-15-0
- Supplied with 2 stems (5/32" & 3/8").



FREE



Horizontal Dial Test Indicator

with Purchase of NF1018

Part No. **\$61.65**
8-100-055 **VALUE!**

Part No. **1-457-908F**

\$119⁹⁵

MODEL
NF1018

IP54 Absolute Digital Caliper

FEATURES:

- Unlimited measuring speed.
- IP54 splash water and dust resistant.
- Battery: (1) 3V CR2032 (spare included) with a life of 2 years under normal operation.
- Hardened stainless steel, lapped finished.
- SPC Output with USB connection available.
- Operating Environment: Temp. 32°F - 104°F; Relative Humidity: 80%
- Meets DIN standard 862; ISO 9001 certified manufacturing.
- 2 year warranty.



2 YEAR WARRANTY!

save 25%

NEW!

Range	Accuracy	Resolution	Part No. 1-815-	Reg. Net Price	SALE!
0-6" (0-150mm)	.001" (.02mm)	.0005" (.01mm)	-130	\$99.85	\$74.89
0-12" (0-300mm)	.0015 (.04mm)	.0005" (.01mm)	-140	176.35	132.26



Mitutoyo Uni-Mike

FEATURES:

- Accuracy: .0002"
- Range: 0-1"
- Graduation: .0001"
- Positive locking clamp.
- Carbide-tipped spindle face.
- Measures hard-to-reach locations.
- Measures from a hole or slot to an edge.
- Measures tube thickness, shoulder-edge distance, rivet head height, etc.
- Friction thimble for exact & repetitive readings.
- Supplied with fitted carrying case.



Series 117

Includes Flat & Rod Anvils

Part No. **1-808-117107**
Reg. Net Price \$250.00

\$212⁵⁰



Non-Contact Laser Tachometer

Ideal for high-speed motors, engines, gearboxes, fans, compressors.

FEATURES:

- Auto ranging.
- Laser precision.
- Wide measuring range.
- Range: 2.5-99,999 RPM
- Jumbo 5 digit LCD display.
- Memory: Min./Max./Last

INCLUDES:

- Hard Case
- User's Manual
- (3) AAA Batteries
- 1 Year Limited Warranty
- Adhesive Reflective Tape

Model: LT2234C

Part No. **8-304-090**

Reg. Net Price \$139.48

\$118⁵⁶ **NEW!**



Fowler Portable Durometers

FEATURES:

- Graduations: 1 Shore
- Includes reference test block, operating instructions and fitted case.
- Manufactured in accordance with DIN, ASTM, ISO and JIS specifications.

APPLICATIONS:

- 35° blunt taper durometers are suitable for testing soft and natural rubber products, neoprene, polyesters, soft PVC, leather, thiol, nitril rubbers, wax, felt and more.
- Sharp 30° point durometers are ideal for testing hard rubber, hard synthetic materials, e.g. acrylics, glass, polystyrol, thermoplastics, printing rolls, vinyl sheets, cellulose acetates, densified wood, etc.



Portable Durometers are just right for testing the hardness of flexible materials such as rubber and plastics.

Penetrator	Shore Scale	Part No. 53-762-	Reg. Net Price	SALE!
Blunt Taper 35°	A	-101	\$371.39	\$315.68
Sharp 30°	D	-102	373.51	317.48

IP65 6" Digital Torpedo Level

FEATURES:

- Reversible reading.
- HOLD and Zero functions.
- Rare-Earth magnetic base.
- Precision digital level sensor.
- Calculate tilt percentage rate.
- V Groove base for measuring cylindrical objects.
- Rechargeable battery (USB charging cable included).
- Large LCD display with backlight.
- Industrial grade aluminum body.
- IP65 water & dust resistance rating.
- 1 year warranty.

SPECIFICATIONS:

Measuring Range 360° 90° x 4
Resolution 0.05°
Repeatability 0.1°
Accuracy ±0.2°
Dimensions 6" x 1.18" x 2.46"



save over 25%



Part No. **1-815-210**
Reg. Net Price \$123.92 **\$89⁹⁵**



Starrett Dial Test Indicator



Series 3809

NEW!

FEATURES:

- Contacts are frictionally adjustable and replaceable.
- Meets or exceeds ANSI/ASME accuracy specifications.
- High contrast, easy-to-read dials with a white background.
- Precision gear-driven design with smooth, jeweled movement.
- Narrow body for in reach ability.
- Satin chrome finish for durability.
- 3 dovetail positioning mounts work with most existing test indicator accessories.
- Contact point reverses automatically, always maintaining clockwise hand rotation.

INCLUDES:
Indicator, .156" contact point, 3/8" & 5/32" dovetail clamps & case.

Starrett #3809A
Part No. 1-855-12333
Reg. Net Price \$128.00
\$108⁸⁰

SPECIFICATIONS:
Range030"
Graduation0005"
Dial Readings 0-15-0
Dial Diameter 1-1/4"

2-4-6 Block Pairs



FEATURES:

- Precision ground & hardened on all sides.
- Ideal for mounting work for precision grinding and layout.
- 23 holes: 5 are tapped 5/8"-11, the other 18 are untapped.
- Parallelism $\pm .0005"$.
- Hardness HRC 56-60.



save 20%

2" x 4" x 6"
Part No. 1-806-002
Reg. Net Price \$214.83
\$171⁸⁷



Fowler

Workshop Square Sets

FEATURES:

- Hardened blade.
- Beam grooved at inner corner for clearance of burrs and dirt.
- Made of the finest Sheffield steel, these economy squares have true right angles both inside and outside.
- Beams and blades ground & lapped for straightness and parallelism.



Sizes Included	Part No. 52-432-	Reg. Net Price	SALE!
2", 4", 6"	-444	\$78.40	\$66.64
2, 3, 4, 6	-246	93.35	79.35
4, 6, 9, 12	-469	165.63	140.79

Mitutoyo 0-1" Dial Indicator Group 2 - 2-1/4" Dia. Face



FEATURES:

- One Rev: .100"
- Graduation: .001"
- Reading: 0-100
- Satin-finish chrome plated forged brass case.
- Precision ground hard chrome plated stem.
- Accuracy meets Federal Specifications.
- Contact point is made of hardened, ground and chrome plated tool steel.
- Spindle rack, pinions and pivots of hardened stainless steel.

Lug Back
Part No. 1-808-2416S
Reg. Net Price \$126.00
\$107¹⁰



CONTINUOUS
DIAL FACE

Mitutoyo Coolant Proof Digimatic Micrometers



FEATURES:

- Graduation: .00005" (.001mm)
- Auto power ON/OFF function.
- IP65 protection level, enabling use in environments exposed to cutting oil, etc. Anti-corrosion treatment is required after use.
- Measurement data output function is available with a water-resistant connection cable.
- Certificate of inspection included.
- Supplied in fitted plastic case.



save 20%

Range	Part No. 1-808-	Reg. Net Price	SALE!
0-1" (0-25mm)	-293340	\$215.00	\$172.00
1-2" (25-50mm)*	-293341	290.00	232.00

* With standard.

Series 293 -
with Ratchet Stop

Mitutoyo Individual Outside Inch Micrometer

Series 103

FEATURES:

- Range: 0-1"
- Graduation: .0001"
- Remarks: Friction Thimble.
- Carbide faces.
- Positive locking clamp.
- Friction thimble for exact repetitive readings.
- Baked-enamel-finished frame.
- Complete with fitted carrying case.
- Clear graduations on satin-chrome finish.



Part No. 1-808-103135
Reg. Net Price \$128.00
\$108⁸⁰

Fowler

Dial Indicators with NIST Certificate of Calibration

FEATURES:

- 4-48 Thread.
- Tolerance markers.
- Solid steel housing.
- Popular AGD 2 Series.
- Meets ANSI specs for accuracy.
- Supplied with lug back.
- Carbide contact point.

save 25%

White Dial Face
Part No. 52-520-110W **\$39⁸⁵**
Reg. Net Price \$53.13

Black Dial Face
Part No. 52-520-110B **\$39⁸⁵**
Reg. Net Price \$53.13



SPECIFICATIONS:
Graduation001"
Range 1"
Reading 0-100

Fowler

Fine Adjust Mag Base Set with Indi-X Blue Electronic Indicator Set

All packed in a
shop-hardened case!

Part No. 54-585-075
Reg. Net Price \$257.85

MAGNETIC BASE

- FEATURES:**
- V-bottom.
 - 85 lb. pull.
 - Fine adjustment.

MAGNETIC

- INDICATOR BACK FEATURES:**
- Use for positioning the indicator on most metal surfaces.
 - Protective coating.

INDI-X BLUE

- INDICATOR FEATURES:**
- 1" (25mm)
 - Floating zero.
 - Auto off feature.
 - Dial Face: 2-1/4"
 - Tolerance indicators.
 - Resolution: .0005" (.01mm)
 - Direct inch/metric conversion.
 - Absolute/incremental reading.
 - Lug back & 3/8" stem mountings.
 - Carbide tipped point with #4-48 thread.

save 25%



NEW!



Fowler EURO-CAL IV Electronic Calipers



save
20%

FEATURES:

- 4-way measurement.
- Stainless steel frame.
- Resolution: .0005" (.01mm) (fractions in 1/64" increments)
- Reads in inch, metric & fractions.
- Water resistant to IP54 standards.
- Absolute/Incremental measurement.
- Direct inch/metric/fraction conversion.
- Includes molded plastic case.

Range: 0-6" (0-150mm)

Part No. **54-100-3301**
Reg. Net Price \$119.00

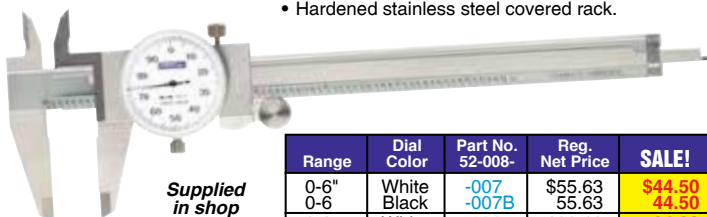
\$95²⁰

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

Part No. **54-100-332**
Reg. Net Price \$229.95

NEW!
\$183⁹⁶

Fowler Dial Calipers



FEATURES:

- Accuracy: ±.001"
- Dial Graduation: .001"
- .100" per revolution.
- 4-way measurement; outside, inside, step, depth.
- Hardened stainless steel covered rack.

Range	Dial Color	Part No. 52-008-	Reg. Net Price	SALE!
0-6"	White	-007	\$55.63	\$44.50
0-6"	Black	-007B	55.63	44.50
0-8"	White	-008	106.13	\$84.90
0-12"	White	-012	134.44	107.55

Toolmaker's V-Blocks

A precision-made set for toolmakers and machinists. Made of hardened tool steel, machined and ground to close tolerances. Blocks are approximately 1-1/4" sq. & 1-5/8" long. 1" dia. clamping capacity.

Two Blocks
& Two Clamps

Part No. **1-805-117**
Reg. Net Price \$46.45

\$37¹⁶



Mitutoyo Dial Bore Gages with 2923SB-10 Indicator

Series 511



INDICATOR FEATURES:

- Range: .05"
- Graduation: .0001"
- Dial Reading: 0-5-0.

BORE GAGE FEATURES:

- Interchangeable anvils & necessary accessories to perform close tolerance I.D. measurements.
- A Digimatic Indicator can be attached in place of the dial gage.
- Accuracy: .0002" (5µm).
- Carbide ball contact point for durability.

Range	No. of Anvils	No. of Spacers	Probe Depth	Part No. 1-808-	Reg. Net Price	SALE!
.40-0.75"	9	1	4"	-511206	\$786.00	\$668.10
.70-1.4"	9	2	4"	-511751	422.00	358.70
1.40-2.5"	6	4	6"	-511752	481.00	408.85
2.00-6.0"	11	4	6"	-511753	481.00	408.85

Toolmakers Surface Gage

With
9" & 12"
Spindles

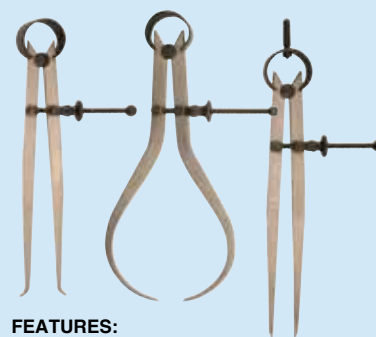
Part No.
1-397-121
\$52³⁵

FEATURES:

- Bottom grooved for cylindrical work.
- Base has 2 retractable gage pins to set against edge of a surface plate.
- Has fine adjustment.
- Front recessed for depressing spindle below base level.
- Base & scriber hardened.



3 Pc. Toolmakers' 6" Spring Dividers & Calipers Set



FEATURES:

- Solid nut and washer permits fast and positive adjustment.
- Heat treated points to give accurate measurement.
- Spring is hardened & tempered.
- Legs are well finished & balanced.
- All dividers and calipers are made of high grade polished steel.

Part No. **1-812-106**
Reg. Net Price \$20.00
\$17⁰⁰



Stainless Steel Protractors

For setting of bevels, transferring of angles. From 0° to 180° in opposite directions, with 6" protractor arm. Heads are 3-3/8" W by 2" H.

Square Head

Part No. **1-397-17**
Reg. Net Price \$14.75

\$11⁸⁰

Half Round Head

Part No. **1-397-18**
Reg. Net Price \$14.75

\$11⁸⁰



4 Pc. Edge Finder Set

save
20%

Part No.
1-397-265
Reg. Net Price \$38.00
\$30⁴⁰



Head Type	Shank	Tip Dia.
Single	1/2"	.5000"
Double	1/2"	.5000/.2000"
Single	3/8"	.2000"
Combo*	1/2"	.2000"

* The Combo Type has a double head, with an edge finder on one end and a center finder on the other.

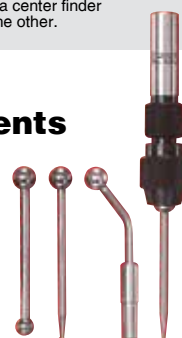
Starrett Wiggler & Center Finder w/ Attachments

Series 828

FEATURES:

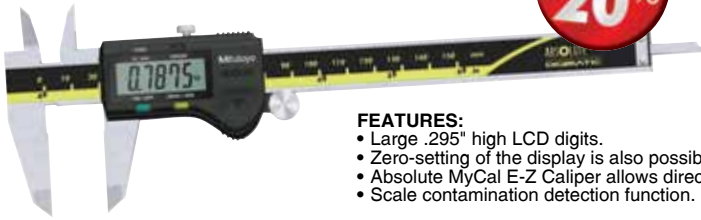
- Four different attachments (Holder, Point, Ball, and Disc Contact) to adapt to countless applications and are readily changeable.
- Attachments are snapped into chuck without removing the collet nut.
- Comes complete with case.

Starrett S828HZ
Part No.
1-855-53064
Reg. Net Price \$84.00
\$71⁴⁰



Mitutoyo Digimatic Caliper

Series 500 with Absolute Encoder



save 20%

Range: 0-6"/0-150mm
Resolution: .0005"/.01mm
Part No. 1-808-500196
Reg. Net Price \$188.00
\$150⁴⁰

FEATURES:

- Large .295" high LCD digits.
- Zero-setting of the display is also possible at any slider position.
- Absolute MyCal E-Z Caliper allows direct measurements from power on.
- Scale contamination detection function.

4 Pc. Combination Square Set

GRADUATIONS:

1.0mm/64ths
.05mm/32nds
12" Blade



FEATURES:

- Hardened and tempered blade with satin chrome finish.
- Square head, center head, and protractor hardened and ground.
- Used for layouts, set-ups, checking heights, depths, & setting angles, etc.
- Square head has a level and scribe.



save 25%

Part No. 1-812-001
Reg. Net Price \$75.18
\$56³⁹

Telescoping Gage Set

"DOUBLE ACTION" Self-Centering

FEATURES:

- Satin chrome finish.
- Rigid handle with self-centering feature.
- Complete set of 6 (5/16"-6") in plastic case.
- Made of hardened tool steel.



Part No. 8-412-004C **\$24⁴⁰**
Reg. Net Price \$28.70



Mitutoyo Radius Gages

Series 186

FEATURES:

- Each radius gage has five measuring locations.
- Each location is identified with its particular radius.
- Accuracy: $\pm .0016"$ (0.04mm).

INCH

Range: 1/32-1/4"
No. of leaves: 30

Part No. 1-808-186101
Reg. Net Price \$44.00

\$37⁴⁰

METRIC

Range: 1.0-7mm
No. of leaves: 34

Part No. 1-808-186105
Reg. Net Price \$57.00

\$48⁴⁵



Hole Mike Sets

In Wooden Case

FEATURES:

- Carbide measuring anvils.
- Self-aligning and self-centering.
- 3-point internal micrometer for precise direct measurement of bore diameters.
- Setting ring accuracy within $\pm .000020"$.
- Ratchet stop provides uniform measuring pressure & assures highest reading accuracy.
- Measures within .050" of bottom of blind holes.



Range	Part No. 1-275-	Reg. Net Price	NOW!
.500" - .800"	-10720	\$827.86	\$745.07
.800" - 1.600"	-10730	1695.55	1526.00
1.600" - 4.000"	-10740	3265.23	2938.71

All Sets Include Extension, Setting Rings and Spanners

Mitutoyo Magnetic Stands



Indicator Not Included.

Model 7011BN
With 6" Fine Adjust Rod and Universal Clamp
Part No. 1-808-7011
Reg. Net Price \$117.00
\$99⁴⁵

Mitutoyo magnetic stands, accept all AGD-type dial indicators, test indicators and probes having 3/8" dia. shank and/or lug back with 1/4" dia. mounting hole. The ON/OFF switch offers instant mounting and dismounting without any adverse effect to the indicators or work surface. Magnetic pull of 132 lbs.

IP65 Extended Range Test Indicator

NEW!



save 20%

FEATURES:

- Range 0.060".
- IP65 Protective Rating.
- Dial reading: 0-15-0.
- Jeweled movement.
- Revolution counter.
- Easy-to-read tilted dial.
- Automatic reversal.
- Swivel arc: 210°.
- Tungsten carbide .080" point.
- Includes 2 dovetail stems.
- Includes extra .040" & .120" contact points.
- Complete with a molded case.
- 1 year warranty.

Part No. 1-815-355
Reg. Net Price \$124.00
\$99²⁰

3D Universal Mini Magnetic Base



NEW!

FEATURES:

- Power pull: 50 lbs.
- Overall reach: 7.5"
- ON/OFF magnet switch.
- V-groove magnet bottom surface for curved surface.
- Anodized universal arm with one knob central lock.
- Dovetail clamp for test indicator.
- Clamping hole for indicator stem.
- Complete with a protective molded case with space for test & dial indicator storage.
- 1 year warranty.

save over 30%

Part No. 1-815-250 **\$44⁹⁵**
Reg. Net Price \$70.55





Packaged Brass Shim Stock

A half hard, cold rolled, 260 alloy branded™ shim.



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

6" x 12" Brass Shim Assortment

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

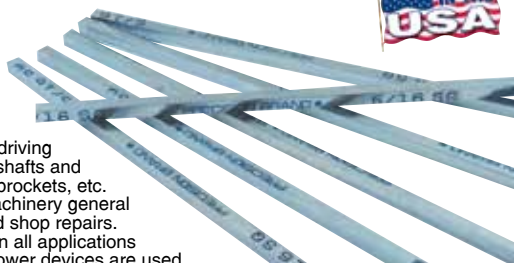
6" x 100" BRASS ROLLS			
Thickness	Part No. 1-953-	Reg. Net Price	SALE!
.001"	-S1	\$28.90	\$26.01
.0015"	-S1X	29.05	26.15
.002"	-S2	30.00	27.00
.003"	-S3	31.00	27.90
.004"	-S4	32.60	29.34
.005"	-S5	33.80	30.42
.006"	-S6	34.75	31.28
.007"	-S7	36.40	32.76
.008"	-S8	38.40	34.56
.009"	-S9	41.25	37.13
.010"	-S10	44.95	40.46
.012"	-S12	48.65	43.79
.015"	-S15	56.20	50.58
.020"	-S20	63.40	57.06
.025"	-S25	75.85	68.27
.031"	-S31	89.70	80.73

Part No. 1-953-SF15 **\$7182**
Reg. Net Price \$79.80



Keystock Square Stainless Steel

12" Lengths



FEATURES:

- Used to provide driving torque between shafts and pulleys, gears, sprockets, etc.
- Used for new machinery general maintenance and shop repairs.
- It is a necessity in all applications where rotating power devices are used.

24 Pc. Keystock Assortment

4 Ea.: 3/16", 1/4", 5/16", 3/8", 7/16" & 1/2"

Part No. 1-958-320
Reg. Net Price \$307.85

\$277⁰⁷

Size	Part No. 1-958-	Reg. Net Price	SALE!
1/8"	-857	\$4.20	\$3.78
3/16"	-858	4.25	3.83
1/4"	-859	6.05	5.45
5/16"	-860	12.35	11.12
3/8"	-861	13.70	12.33
7/16"	-862	19.15	17.24
1/2"	-863	25.15	22.64
5/8"	-864	40.35	36.32
3/4"	-865	50.00	45.00
7/8"	-866	71.65	64.49
1"	-867	91.35	82.22

CALCULATED INDUSTRIES™

Ultra Measure Master

Professional Grade U. S. Standard To Metric Conversion Calculator

FEATURES:

- User Preferences, Set Custom Options: Fractions, area, volume.
- More than 60 standard & metric (SI) units built-in for fast, reliable conversions on the job or in the office.
- Over 400 conversion combinations.
- "Paperless" Tape: Allows review of the last 20 entries; double-check totals.
- Works in & converts between feet, inches, fractions, yards, meters, centimeters and millimeters, including square & cubic formats.
- Standard Calculations: Works as a math calculator with %, +, -, x, ÷, +/-, π, 1/x, X2, & √.
- Backspace Key.
- Includes protective slide cover.

FUNCTIONS:

- Bending Moment
- Weight
- Linear Velocity
- Flow Rate
- Linear Area
- Volume
- Cost per Unit
- Weight per Volume
- Pressure
- Temperature



Model 8025
Part No. 1-961-003
Reg. Net Price \$61.92

\$52⁶³



Sliding Arm Clamps

4800 SERIES



1200 SERIES

1200 LIGHT DUTY SERIES:

- Up to 1200 lbs. clamping pressure.
- Tommy bar handle.
- Standard pad.

2400 REGULAR DUTY SERIES:

- 2660 lbs. nominal clamping pressure.

4800 HEAVY DUTY SERIES:

- For uses such as clamping 3/4" plate.
- 4880 lbs. nominal clamping pressure.



Model No.	Opening	Throat Depth	Rail Size	Part No. 1-820B-	Reg. Net Price	SALE!
1200 SERIES - LIGHT TO MEDIUM DUTY						
1200S-12	12"	5-1/2"	1" x 15/32"	-001	\$108.10	\$97.29
2400 SERIES - REGULAR DUTY						
2400S-8	8"	5-1/2"	1-3/16" x 9/16"	-003	188.75	169.88
2400S-12	12"	5-1/2"	1-3/16" x 9/16"	-005	218.95	197.06
2400S-20	20"	5-1/2"	1-3/16" x 9/16"	-006	268.70	241.83
4800 SERIES - HEAVY DUTY						
4800S-12	12"	7"	1-9/16" x 3/4"	-007	405.45	364.91

WILSON 400P Series™ Spark-Duty™ Drop Forged C-Clamps

FEATURES:

- V grooved anvil allows secure holding of all materials including rounds, squares and flats.
- Drop forged, regular duty with extra deep throat.
- Innovative frame geometry for maximum strength.
- Copper plated spindle and Perma-pad® are for resistance to welding spatter and corrosion, and are replaceable.



Capacity	Throat Depth	Spindle Diameter	Part No. 1-550-	Reg. Net Price	SALE!
0" - 3"	2-1/2"	5/8"	-14229	\$33.64	\$28.59
0 - 4-1/4"	3-1/4"	3/4"	-14243	51.38	43.67
0 - 6-1/16"	4-1/8"	3/4"	-14257	79.05	67.19
0 - 8-1/4"	5"	3/4"	-14271	97.50	82.88
2 - 10-1/8"	6"	3/4"	-14285	139.66	118.71

Oil Hardening Drill Rod

0-1 Quality Non-Distorting



36" Length Ground Drill Rods.

Tolerance: Plus or Minus .0005"

FRACTIONAL SIZES

METRIC SIZES

Size (mm)	Decimal Equiv. Inches	Part No. 1-950M	ONLY!
2	0.0787	-002	\$4.23
3	0.1181	-003	4.86
4	0.1575	-004	5.28
5	0.1969	-005	6.68
6	0.2362	-006	8.44
7	0.2756	-007	9.19
8	0.3150	-008	11.09
9	0.3543	-009	13.35
10	0.3937	-010	16.44
11	0.4331	-011	20.24
12	0.4724	-012	23.26
13	0.5118	-013	26.46
14	0.5512	-014	30.58
15	0.5906	-015	35.04
16	0.6299	-016	38.51
17	0.6693	-017	44.15
18	0.7087	-018	49.64
19	0.7480	-019	53.81
20	0.7874	-020	46.79
21	0.8268	-021	51.68
22	0.8661	-022	59.46
23	0.9055	-023	60.23
24	0.9449	-024	67.25
25	0.9843	-025	73.04

Size	Part No. 1-950-	ONLY!	Size	Part No. 1-950-	ONLY!	Size	Part No. 1-950-	ONLY!
1/16"	-004	\$3.42	23/64"	-023	\$13.52	13/16"	-052	\$47.41
5/64"	-005	3.74	3/8"	-024	11.98	27/32"	-054	50.36
3/32"	-006	4.11	25/64"	-025	15.50	7/8"	-056	45.35
7/64"	-007	4.32	13/32"	-026	16.63	29/32"	-058	58.88
1/8"	-008	4.15	27/64"	-027	18.11	15/16"	-060	61.99
9/64"	-009	4.91	7/16"	-028	18.62	31/32"	-062	66.51
5/32"	-010	5.18	29/64"	-029	20.84	1"	-100	59.87
11/64"	-011	5.54	15/32"	-030	21.33	1-1/16"	-104	75.82
3/16"	-012	5.32	31/64"	-031	23.80	1-1/8"	-108	78.12
13/64"	-013	6.78	1/2"	-032	20.27	1-3/16"	-112	95.00
7/32"	-014	7.27	17/32"	-034	25.77	1-1/4"	-116	92.72
15/64"	-015	7.77	9/16"	-036	28.93	1-5/16"	-120	111.18
1/4"	-016	7.04	19/32"	-038	32.19	1-3/8"	-124	108.40
17/64"	-017	8.50	5/8"	-040	30.66	1-7/16"	-128	133.21
9/32"	-018	9.21	21/32"	-042	39.00	1-1/2"	-132	127.83
19/64"	-019	9.66	11/16"	-044	42.76	1-5/8"	-140	163.23
5/16"	-020	8.95	23/32"	-046	46.88	1-3/4"	-148	189.42
21/64"	-021	11.27	3/4"	-048	43.18	2"	-200	215.53
11/32"	-022	12.13	25/32"	-050	42.64			





Steel Feeler Gage Stock

Strips 1/2" x 12"

FEATURES:

- 12" flat lengths are individually wrapped for protection and convenience.
- Used in manufacturing and maintenance operations wherever setting close spacing or checking extremely tight tolerances is required.
- Hardened and tempered to RC 48-62.
- Made from 1/2" wide spring steel stock, close grain C1095 high carbon steel.
- Thickness is clearly etched every 6".
- Ground and polished to precision tolerances.



Thickness	Box of 12		
	Part No. 1-957-	Reg. Net Price	SALE!
.001"	-K1	\$72.00	\$64.80
.0015	-K1X	38.40	34.56
.002	-K2	38.40	34.56
.0025	-K2X	38.40	34.56
.003	-K3	38.40	34.56
.004	-K4	31.25	28.13
.005	-K5	31.25	28.13
.006	-K6	31.25	28.13
.007	-K7	27.65	24.89
.008	-K8	27.65	24.89
.009	-K9	27.65	24.89
.010	-K10	27.65	24.89



RiteHite Self-Positioning Hold Down Clamping System

FEATURES:

- Self-positioning, single component design.
- Swivel rocker attached body - prevents loss.
- Strong, ductile iron body.
- Instant set-up and eliminates shim stock.
- Wide clamping range - instant adjustment to 5".



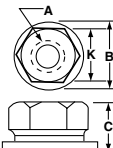
Model No.	Stud Size	Clamping Height	Dimensions	Load Limit (lbs.)	Part No. 1-820B-	Reg. Net Price	SALE!
375L	3/8"	1-1/4"	1-1/8" x 3-1/2"	10,000	-049	\$34.90	\$31.41
500L	1/2"	2-1/2"	1-7/16 x 5-3/4"	12,800	-050	40.25	36.23
625L	5/8"	3-1/2"	1-7/8 x 6-3/4"	18,000	-051	53.35	48.02
750L	3/4"	5"	2-1/8 x 9"	24,000	-052	82.50	74.25
1000L	1"	5"	2-7/8 x 11-1/8"	65,000	-053	149.80	134.82

TECO Flange (Collar) Nuts

Case Hardened Black Oxide Finish



Reference No.	Thread A	B	C	K	Part No. 1-903-	Reg. Net Price	SALE!
FN-14	1/4-20"	5/8"	5/16"	1/2"	-41601	\$2.28	\$1.82
FN-56	5/16-18	3/4"	3/8"	9/16"	-41602	2.42	1.94
FN-38	3/8-16	7/8"	1/2"	11/16"	-41603	2.60	2.08
FN-76	7/16-14	1"	9/16"	3/4"	-41604	3.04	2.43
FN-12	1/2-13	1-1/8"	11/16"	7/8"	-41605	3.10	2.48
FN-58	5/8-11	1-3/8"	13/16"	1-1/16"	-41606	3.97	3.18
FN-34	3/4-10	1-5/8"	1"	1-1/4"	-41607	5.83	4.66



Good brown & sharpe

Jack Screw Utility Set

FEATURES:

- (2) Extension Bases: 2" & 1" respectively.
- Use extension singly or together.
- When used together, a height of 6-3/8" may be obtained with the jack.
- 1-1/4" diameter jack at base.
- 2-1/4" to 3-3/8" range.
- Easily lifts 1,000 lbs.

Use when setting up machinery and in other machine shop applications.

Part No. 1-802-27421
Reg. Net Price \$63.55

\$54.02



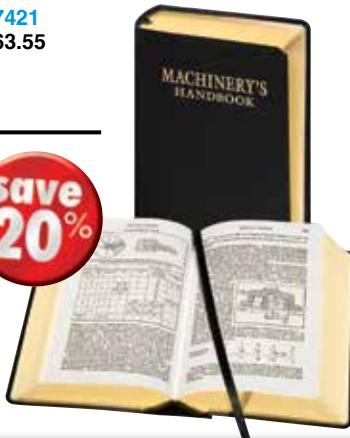
Machinery's Handbook Collector's Edition

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 world-renowned reference and "the Bible" of the metalworking and mechanical industries.

Part No. 1-961-001
Reg. Net Price \$77.42

\$61.94

1914 First Edition Replica



Machinist Clamping Sets



EACH SET CONTAINS:

- Plastic case
- 6 T-slot nuts
- 6 flange nuts
- 4 coupling nuts
- 6 Step blocks
- 6 Serrated end clamps
- 24 Studs, 4 each: 3", 4", 5", 6", 7", 8" long.

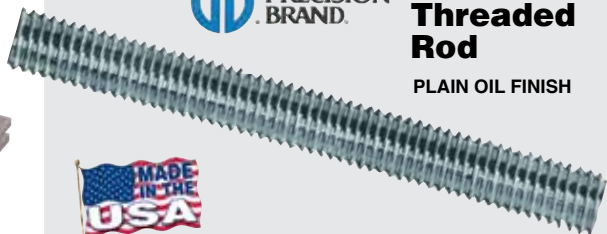


T-Slot Size	Table Stud Size	Part No. 1-904-	Reg. Net Price	SALE!
7/16"	3/8"-16	-20412	\$103.14	\$82.52
1/2"	3/8-16	-20413	103.14	82.52
9/16"	1/2-13	-20401	115.23	92.19
5/8"	1/2-13	-20402	103.14	82.52
11/16"	5/8-11	-20415	168.98	135.19
3/4"	5/8-11	-20416	168.98	135.19



Metric Threaded Rod

PLAIN OIL FINISH



FEATURES:

- 1 meter lengths.
- Coupling nuts can be used to make longer lengths.
- High quality low carbon steel.

Size	Pitch	Part No. 1-919-	ONLY!
M6	1.00	-068	\$3.45
M8	1.25	-070	5.10
M10	1.50	-072	7.50
M12	1.75	-074	11.15
M14	2.00	-076	14.60
M16	2.00	-078	23.50
M20	2.50	-080	36.50



Hold-Down Toggle Clamps

Most suitable for holding down sheet metal or circuit boards. Many spindle bar and base combination available to suit your application.



SUPPLIED WITH SPINDLE ASSEMBLY.

HORIZONTAL HANDLE

Height Under Base	Overall Length	Holding Capacity (lbs.)	Part No. 1-990-	ONLY!
5/16"	3-1/16"	60	-201*	\$8.82
3/8"	3-3/16"	60	-201A**	8.82
1"	5-7/16"	200	-201B*	12.01
1-3/8"	6-19/32"	500	-225D*	14.88
1-3/4"	10-3/8"	750	-20235*	21.84

* U-Bar, Flanged Base

** Fixed Bar, Flanged Base

VERTICAL HANDLE

SUPPLIED WITH SPINDLE ASSEMBLY.

Overall Height	Height Under Base	Overall Length	Holding Capacity (lbs.)	Part No. 1-990-	ONLY!
2-61/64"	41/64"	1-31/32"	100	-101A*	\$10.97
3-3/4"	29/32"	2-17/32"	200	-12050**	12.97
3-3/4"	29/32"	2-17/32"	200	-12055†	13.02
3-3/4"	29/32"	2-17/32"	200	-12050U*	12.93
5-1/2"	1-1/4"	4-9/16"	500	-12130**	16.38
3-7/16"	1-1/4"	4-9/16"	500	-12142**	16.38
3-7/16"	1-1/4"	4-9/16"	500	-12147†	16.38
7-1/2"	1-11/16"	5-17/32"	750	-12265*	23.99
8-7/8"	2"	6-15/16"	1,000	-10247	36.30

* U-Bar, Flanged Base, Straight Handle

** Fixed Bar, Flanged Base, Straight Handle

† Fixed Bar, Straight Base, Straight Handle



14" x 40" Gearhead Metal Lathe

2 HP, 220V, 1 PH Motor

FEATURES:

- 8 spindle speeds, 70-2000 RPM.
- 4-way power feed of apron and crossslide.
- Gearhead spindle drive with hardened and ground gears.
- Combination inch/metric graduated dials.
- Bed ways are hardened and precision ground.
- Lathe chuck safety guard automatically shuts lathe off when lifted.

Model KC1440ML-6

Part No. 6-125-062

\$6,499⁰⁰

FINANCE AS LOW AS
\$146.35/mo.
CALL FOR DETAILS

**2 FULL
YEAR
WARRANTY**



12" x 36" Gearhead Metal Lathe

1.5 HP, 220V, 1 PH Motor

FEATURES:

- Line interruption switch system needs a restart after a power failure.
- Guideway and gears in headstock are all hardened and precision ground.
- Safety guard with limit switch protection.
- Complete with 6"-3 jaw chuck, 8"-4 jaw chuck, imperial and metric gears, quick change tool post, steady rest, follow rest, 10" DI-4 camlock face plate, thread chasing dial indicator, MT#3 dead center, MT#3 arbor taper, 1/2" drill chuck, full length splash guard, tool box, chuck keys & hex. keys.

Model KC1236ML

Part No. 6-125-063

\$4,499⁰⁰

FINANCE AS LOW AS
\$107.23/mo.
CALL FOR DETAILS



3-Axis Auto Feed Surface Grinders

5 HP, 230V, 3 PH Motor

FEATURES:

- Full 3-axis automatic.
- Automatic lubrication system for easy maintenance & extended machine life.

**Model SGS-1230AHD
(12" x 30")**

Part No. 6-273-020

\$41,350⁰⁰

FINANCE AS LOW AS
\$882.00/mo.
CALL FOR DETAILS

**Model SGS-1640AHD
(16" x 40")**

Part No. 6-273-025

\$60,495⁰⁰

FINANCE AS LOW AS
\$1,220.18/mo.
CALL FOR DETAILS

COMPLETE WITH:

- Electric Chuck
- Coolant
- Overhead Dresser



**MODEL
SGS-1640AHD**

SPECIFICATIONS:	MODEL 1230AHD	MODEL 1640AHD
Table Size.....	12" x 30"	16" x 40"
Wheel Size.....	14" x 1-1/4" x 5"	14" x 2" x 5"
Spindle Motor.....	5 HP	7-1/2 HP
Voltage/Phase.....	230/460V, 3 PH	230/460V, 3 PH
Net Weight.....	4,400 lbs.	6,260 lbs.
Shipping Weight	5,000 lbs.	7,480 lbs.



22" & 26" Swing Large 4" Bore Engine Lathes

STANDARD EQUIPMENT:

- 12" 3-jaw chuck.
- 16" 4-jaw chuck.
- 20" Face plate.
- 8" Steady rest.
- 1-3" Follow rest.
- 4-way tool post.
- Thread chasing dial.
- Coolant system.
- Full-Length splash guard.
- Work light.
- Standard tools.

SPECIFICATIONS:

Swing Over Bed	22" / 26"
Swing Over Cross Slide	12.5" / 16.5"
Swing Over Gap	30" / 34"
Distance Between Centers	60" / 80" / 120"
Spindle Speeds (12 speeds)	36-1600 RPM
Spindle Nose/ Spindle Bore	D1-8/4.12"
Threads Standard	32 (2 to 28) TPI
Threads Metric Pitch	22 (1 to 14) MM
Tailstock Quill Travel/Taper	6" / #5 MT
Main Motor	10 HP, 230/460V, 3 PH
Shipping Weight	7,350 / 7,760 / 9,180 lbs.



FEATURES:

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

**Big 4" Spindle Bore,
Clutch Spindle Drive &
4-Way Rapid Traverse**



16" x 40" High Precision Toolroom Metal Lathe



2 FULL YEAR WARRANTY

FEATURES:

- Powerful 4HP drive motor.
- 4-way power feed of apron and cross-slide.
- Bed ways are hardened and precision ground.
- Gearhead spindle drive with hardened & ground gears.
- 16 spindle speeds 45-1,800 RPM.
- Combination inch/metric graduated dials.
- Lathe chuck safety guard automatically shuts lathe off when lifted.

Model KC-1640ML

(230V, 3PH)

Part No. 6-125-064

(575V, 3PH)

Part No. 6-125-064C

\$12,499⁰⁰

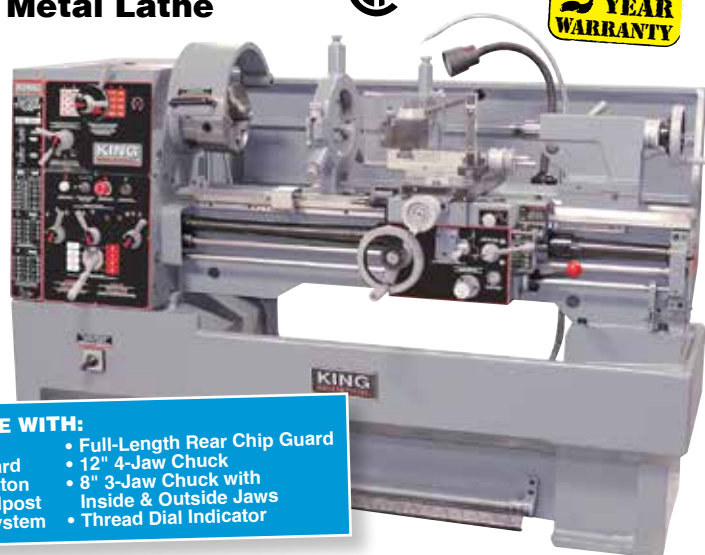
FINANCE AS LOW AS

\$274.97/mo.

CALL FOR DETAILS

COMPLETE WITH:

- Work Light
- Chuck Guard
- E-Stop Button
- 4-Way Toolpost
- Coolant System
- Full-Length Rear Chip Guard
- 12" 4-Jaw Chuck
- 8" 3-Jaw Chuck with Inside & Outside Jaws
- Thread Dial Indicator



17" x 40" High Precision Engine Lathes

with Chuck Guard & 2-Speed Tailstock

FEATURES:

- Hardened and ground gears and bedways.
- Centralized lube system in headstock.
- Solid one-piece cast iron base.
- Instant feed reverse on apron.
- Full-length safety foot brake.
- Inch dials and leadscrews.
- Thread chasing dial.

SPECIFICATIONS:

Swing Over Bed	17"
Swing Over Cross Slide	11.875"
Swing Over Gap	24.5"
Center Distance	40"
Spindle Nose/Bore	D1-6 Camlock/3.125"
Spindle Speeds (12)	36-1,800 RPM
Thread Cutting Range	
Standard Whit-worth (45)	2-72 TPI
Metric Pitch (39)	0.2-14 mm
Tailstock Taper	4 MT
Tailstock Spindle Travel	5"
Drive Motor	7.5 HP, 230/460V, 3 PH
Net Weight	3,850 lbs.
Shipping Weight	4,510 lbs.

COMPLETE WITH:

- Face Plate
- Steady Rest
- Follow Rest
- 4-Way Toolpost
- 10" 3-Jaw Chuck
- Coolant System with Full Length Rear Splash Guard
- Toolbox with Tools
- Halogen Work Light
- Manual and Parts List

Model ML-1740T

Part No. 6-273-064

\$26,995⁰⁰

FINANCE AS LOW AS

\$575.80/mo.

CALL FOR DETAILS



Complete with

NEWALL

DP-500 or DP-700

Digital Readout

INSTALLED!

Model KLS-2260C
(22" x 60")

Part No. 6-273-067

\$27,595⁰⁰

FINANCE AS LOW AS

\$588.60/mo.

Model KLS-2280C
(22" x 80")

Part No. 6-273-068

\$29,195⁰⁰

FINANCE AS LOW AS

\$622.73/mo.

Model KLS-26120C
(26" x 120")

Part No. 6-273-069

\$34,995⁰⁰

FINANCE AS LOW AS

\$746.44/mo.

Supplied with Newall DP-700 DRO

CALL FOR DETAILS

Part No. 6-273-067-N5

\$30,795⁰⁰

FINANCE AS LOW AS

\$656.86/mo.

Part No. 6-273-068-N5

\$32,950⁰⁰

FINANCE AS LOW AS

\$702.82/mo.

Part No. 6-273-069-N

\$40,995⁰⁰

FINANCE AS LOW AS

\$874.42/mo.

CALL FOR DETAILS



6" x 18" Manual Surface Grinder

FEATURES:

- 2 HP motor, 230V, 3 PH
- Construction gives this machine exceptional rigidity.
- Roller ways for smooth effortless table travel.
- Ultra high column with 21" spindle to table.
- Cartridge spindle with ABEC-7 precision spindle bearings.
- Double "V" saddle ways, H-frame column design and heavyweight.
- Oversize spindle housing and flange mount design allows heavier grinds than with other similar size machines.

Model KGS-618M

Part No. 6-273-003

\$12,295⁰⁰

FINANCE AS LOW AS

\$270.49/mo.

CALL FOR DETAILS

COMPLETE WITH:

- Coolant System
- 6" x 18" Permanent Magnetic Chuck
- Grinding Wheel
- Wheel Chuck





Disc & Belt Sander

FEATURES:

- Adjustable tilting tables with mitre gage.
- Direct-drive motor for efficient operation and compact design.
- Easy belt tracking system for fast adjustments and belt replacement.

SPECIFICATIONS:

Belt Size 1" x 30"
 Belt Speed 2,000 ft./min.
 Disc Size 5"
 Disc Speed 2,800 RPM
 Motor 1/4 HP, 115V, 1 PH
 Net Weight 26 lbs.
 Shipping Weight 40 lbs.



Model KC702C
 Part No. 6-125-001

\$125⁰⁰

2 FULL YEAR WARRANTY



Disc & Belt Sander

FEATURES:

- Motor is all sealed ball bearing construction.
- Easy belt tracking system for quick changing of belts.
- Handles all your finishing operations (sanding, surfacing, grinding, cleaning & deburring on wood, metal & plastic).
- Comes with adjustable tilting table.

Model KC-705L-5

Part No. 6-125-002 **\$169⁰⁰**



2 FULL YEAR WARRANTY

SPECIFICATIONS:

Belt Lift 0° - 90°
 Belt Size / Speed 4" x 36" / 2,000 SFPM
 Disc Size / Speed 6" / 3,450 SFPM
 Motor 5.2 Amp
 Voltage 110V, 1 Phase, 60 Hz
 Dimensions (L x W x H) 17" x 14" x 11"
 Net Weight 42 lbs.
 Shipping Weight 52 lbs.



Disc & Belt Sander

FEATURES:

- Powerful 1 HP motor.
- 2 position belt and disc cast aluminum table tilts from 0-45°.
- Heavy-duty cast-iron construction.

SPECIFICATIONS:

Belt Size 6" x 48"
 Disc Size 9"
 Motor 11.9 Amp. @ 110V
 5.5 Amp. @ 220V
 Voltage 110V/220V, 1 PH, 60 Hz
 Pre-Wired 110V
 Net Weight 135 lbs.
 Shipping Weight 160 lbs.

Model KC-760L **\$449⁹⁹**
 Part No. 6-125-003



2 FULL YEAR WARRANTY

COMPLETE WITH:

- Miter Gauge
- 2-1/2"-4" Dust Chute Adapter
- Sturdy Enclosed Cabinet Stand



12" Disc & 6" x 48" Belt Combination Sander with Built-In Dust Collector

FEATURES:

- Powerful 1.5 HP, 220V motor.
- 2 Step activation safety switch with line voltage interruption in case of power failure.
- Heavy-duty cast-iron tilting tables and body.
- Sanding belt operates vertically, horizontally or at any set angle in between.
- Belt and disc safety guards.
- Quick release lever for easy belt replacement.

Model KC-790FX-DC

Part No. 6-125-006-DC

\$1,599⁰⁰

2 FULL YEAR WARRANTY

SPECIFICATIONS:

Belt Size 6" x 48"
 Belt Speed 2,250 SFPM
 Disc Size 12"
 Disc Speed 1,750 RPM
 Motor 1-1/2HP, 220V, 1 PH
 Dust Collector Motor 1/4 HP, 2/1 Amp
 Overall Dimensions 35" x 25" x 56-1/4"
 Weight 280 lbs.



NEW!



14" Abrasive Chop Saw

FEATURES:

- Powerful 15 amp motor wired for 115V.
- Vise swivels to 45°.
- Stamped steel frame upper & lower.
- Complete with ON/OFF trigger switch built into handle, (1) 14" abrasive wheel, manual & parts list.

Model 8342N
 Part No. 6-125-038
\$149⁹⁹



NEW!



SPECIFICATIONS:

Spindle 2,800 RPM
 Square Capacity 3-1/2"
 Max. Depth of Cut 4-5/16"
 Max. Width of Cut 8-1/2"
 Bore Abrasive Wheel 14" x 1"

Model COS-16
 Part No. 6-100-010
\$1,895⁰⁰

16" Heavy Duty Cut-Off Saw

FEATURES:

- Heavy-duty cast iron frame upper & lower.
- 16" x 1" bore abrasive wheel.
- 2" capacity solid bar, 3" pipe.
- 5 HP, 230V, 3 PH motor.
- Vise swivels to 45°.
- 3,000 RPM spindle.
- Weight 210 lbs.



12" Slow Speed Cold Cut Saw

FEATURES:

- Powerful 4.5 HP motor, wired 220V, 1 PH
- Quick action clamping vice secures workpiece.
- Control handle with integrated safety trigger.
- Low 52 RPM blade speed is ideal for cutting ferrous metals.
- Mitering head pivots to the right or left positive stops at 45° & 90°.

Model KC-315CS

Part No. 6-125-036

\$2,599⁰⁰

2 FULL YEAR WARRANTY

SPECIFICATIONS:

Cutting Capacity
 Solid Round 2-3/8" / 2"
 Hollow Round 4" / 3-1/2"
 Square 3-1/4" / 3-1/4" / 3" x 3"
 Spindle Speed 52 RPM
 Max. Vise Opening 4-3/4"
 Weight 385 lbs.

Model KM-1200

Optional 12" Cold Cut Saw Blade

Part No. 6-125-KM1200 **\$299⁰⁰**



12" Blade Not Included.

COMPLETE WITH:

- Sider Roller
- Anti-Splash Guards
- Coolant System
- Workshop Assembly





NEW!

7" x 12" Horizontal/Vertical Bandsaws

MODEL KC-712BC

FEATURES:

- Hydraulic feed control.
- Built in coolant system.
- Portable - take this machine to the job and plug it in.

COMPLETE WITH:

- Wheel Kit
- Saw Blade
- Vertical Work Table
- Manual & Parts List

MODEL KC712GH-5

FEATURES:

- Hydraulic feed control.
- Built in coolant system.
- Portable - take this machine to the job & plug it in.
- Direct gear drive of blade wheel.



MODEL
KC712GH-5
with Gear Drive



**2 FULL
YEAR
WARRANTY**

**Model
KC-712BC**
Part No. 6-125-041
\$1,399⁰⁰

**Model
KC712GH-5**
Part No. 6-125-042
\$1,999⁰⁰

SPECIFICATIONS:	KC-712BC	KC712GH-5
Blade Size	10" x 54"	10" x 54"
Capacity	7" • / 7" x 12" ■	7" • / 7" x 12" ■
Blade Speeds	(4) 85-235 SFPM	(4) 85-235 SFPM
Motor	1 HP, 110V, 1 PH	1 HP, 110V, 1 PH
Spindle Speeds	70 - 4,200 RPM	70 - 4,200 RPM
Net Weight	275 lbs.	280 lbs.
Shipping Weight	350 lbs.	355 lbs.



10" x 18" Horizontal Bandsaw

FEATURES:

- Powerful 2 HP drive motor.
- Infinitely adjustable hydraulic feed control.
- Built-in coolant system.
- Precision dial gage display for proper blade tensioning.

Model KC227-2

(230V, 1 PH)
Part No. 6-125-044
(575V, 3 PH)
Part No. 6-125-044C

\$4,199⁰⁰

**FINANCE AS LOW AS
\$100.08/mo.**
CALL FOR DETAILS

SPECIFICATIONS:

Round Capacity at 90° 10"
Rectangular Capacity at 90° 10" x 18"
Rectangular Capacity at 45° 7" x 9-3/8"
Blade Size 1" x 122"
No. of Blade Speeds 4
Shipping Weight 925 lbs.



NEW!

**2 FULL
YEAR
WARRANTY**



14-1/2" Capacity Gravity Feed Vertical Saw

Model EF-1459

Part No.
6-398-005

\$7,495⁰⁰

**FINANCE AS LOW AS
\$168.80/mo.**
CALL FOR DETAILS

FEATURES:

- 1/4"-3/4" x 120" blade.
- 1 HP, 230V, 1 PH motor.
- Speeds (4): 70-525 SFPM
- 14-1/2" height capacity.
- Net Weight: 585 lbs.
- Shipping Weight: 700 lbs.



10" x 18" Mitre Bandsaw

NEW!

**2 FULL
YEAR
WARRANTY**

FEATURES:

- CSA approval of electrical system with 24V control panel.
- Miter design with swivel saw bow.
- Hydraulic feed control.
- Variable blade speeds.

SPECIFICATIONS:

Blade Size 1" x 121-3/4"
Blade Speeds (Var.) 73-312 SFPM
Capacity (90°) 10" •
Capacity (90°) 7-7/8" x 7-7/8" ■
Net Weight 845 lbs.
Shipping Weight 980 lbs.

Model KC-228S-V-2

(230V, 1 PH)
Part No. 6-125-049
(575V, 3 PH)
Part No. 6-125-049C

\$5,999⁰⁰

**FINANCE AS LOW AS
\$135.09/mo.**
CALL FOR DETAILS



17" Variable Speed Metal/Wood Cutting Bandsaw

NEW!

FEATURES:

- (2) 4" dust chute for dust collector hook-up.
- Variable frequency drive speed control & digital display for blade speed in feet/min.
- Solid cast-iron table tilts 5° left/45° right.
- Complete with a 1/2" x 6 TPI wood cutting blade, a 1/2" x 10 TPI metal cutting blade, laser guide, work lamp, miter gauge, and Precision "TRU-RIP" Aluminum Rip Fence with resaw guide.

Model KC-1700WM-VS

Part No. 6-125-169
\$3,799⁰⁰

**FINANCE
AS LOW AS
\$90.55/mo.**
CALL FOR
DETAILS

SPECIFICATIONS:

Cutting Capacity 16-1/4"
Table Size 23-1/2" x 17"
Blade Size 131-5/8" x (1/8"-1") x .025"
Height to Cut 12"
Motor 2 HP, 220V, 3 PH, 7 Amp
Voltage (input power) 220V, 1 PH, 60 Hz
Variable Speeds (wood) 540-3,600 SFPM
Variable Speeds (metal) 100-650 SFPM
Weight 440 lbs.



**2 FULL
YEAR
WARRANTY**

9" x 49" Turret Milling Machines

SPECIFICATIONS:

Table Size	9" x 49"
Longitudinal Travel Manual Model	35"
Longitudinal Travel w/ Power Feed	31"
Cross Travel	12"
Knee Travel	16"
Spindle Speeds (Variable)	70-4,200 RPM
Spindle Taper	R-8
Quill Travel	5"
Spindle Motor Step Pulley	3 HP, 230/575V, 3 PH
Net / Shipping Weight	2,200 / 2,700 lbs.

3 HP Variable Speed Head!

MODEL TUM-1VS
Shown with Newall DP-500 and KBC Table Feed

Model TUM-1VS

(230V, 3 PH)
Part No. 6-265-007
(575V, 3 PH)
Part No. 6-265-007C

\$10,995⁰⁰

FINANCE AS LOW AS

\$241.87/mo.

CALL FOR DETAILS

Complete with

NEWALL DP-500 Digital Readout INSTALLED!

(230V, 3 PH) Part No. 6-265-007-N5
(575V, 3 PH) Part No. 6-265-007C-N5

\$12,995⁰⁰

FINANCE AS LOW AS

\$285.89/mo.

CALL FOR DETAILS



FREE TOOLING

with Purchase of any KBC Mill / DRO Package



\$314.57 Value!



- 13 Pc. Collet Set (1-519-020)
- 52 Pc. Clamp Kit (1-904-20402)
- 10 Pc. End Mill Set (5-300T-050)

10" x 54" Heavy Duty Milling Machines

Model TUM-3VS

(230V, 3 PH) Part No. 6-265-006
(575V, 3 PH) Part No. 6-265-006C

\$12,495⁰⁰

FINANCE AS LOW AS

\$274.88/mo.

Model TUM-40VS

(230V, 3 PH) Part No. 6-265-009
(575V, 3 PH) Part No. 6-265-009C

\$13,995⁰⁰

FINANCE AS LOW AS

\$307.90/mo.

CALL FOR DETAILS

Complete with

NEWALL DP-500 Digital Readout INSTALLED!

(230V, 3 PH) Part No. 6-265-006-N5
(575V, 3 PH) Part No. 6-265-006C-N5

\$14,250⁰⁰

FINANCE AS LOW AS

\$313.51/mo.



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

SPECIFICATIONS:	TUM-3VS	TUM-40VS
Table Size	10" x 54"	10" x 54"
Longitudinal Travel Manual	32"	32"
Longitudinal Travel with Power Feed	28"	28"
Cross Travel	16"	16"
Knee Travel	16"	16"
Spindle Speeds	70 - 4,200 RPM	70 - 4,200 RPM
Spindle Taper	R8	NST40
Quill Travel	5"	5"
Spindle Motor	3 HP, 3 Phase	5 HP, 3 Phase
Voltage	230/460V or 575V	230/460V or 575V
Net Weight	2,800 lbs.	2,900 lbs.
Shipping Weight	3,500 lbs.	3,500 lbs.



MODEL TUM-3VS
Shown with Newall DP-500 and KBC Table Feed.



Variable Speed Bench Mill

with Digital Spindle Speed Indicator

NEW!

FEATURES:

- Micrometer dials graduated in .001" increments.
- Variable spindle speeds with digital spindle speed indicator.
- 4 Heavy-duty taper roller bearings.

Model KC-20VS

Part No. 6-125-035

\$1,999⁰⁰

2 FULL YEAR WARRANTY

SPECIFICATIONS:

Max. Spindle Nose to Table	13"
Drilling Cap. (cast-iron/steel)	3/4" / 5/8"
Swing	13"
Spindle Taper / Stroke	R8 / 2"
Variable Speeds (2)	50-1,125 / 100-2,250 RPM/tr/min
Motor / Voltage	1 HP, 110V, 1 PH
Max. Travel	18-7/8" x 6-7/8"
Weight	285 lbs.

COMPLETE WITH
• 1/2" Chuck
• Safety Guard
• R-8 Chuck Arbor



10" x 54" CNC Vertical Milling Machine

with 3-Axis Acu-Rite G2 CNC Control

FEATURES:

- G2 Acu-Rite CNC control.
- Reliable mechanical V.S. Mill head delivers full torque over entire speed range.
- Control features canned cycle for all regular milling and drilling jobs.
- Hardened & ground able with precision hardened ground ways.
- Heavy-duty box ways on knee and column with extra wide saddle for added rigidity.

Model KBC-3VS-G23

(230V, 3 PH)

Part No. 6-265-006-G23

(575V, 3 PH)

Part No. 6-265-006C-G23

\$39,995⁰⁰

FINANCE AS LOW AS

\$853.16/mo.

CALL FOR DETAILS



PRICE REDUCED
SAVE \$3,500!
Was \$43,495.00





Milling Drilling Machine

2 FULL YEAR WARRANTY

FEATURES:

- Table control hand wheels have large micrometer dials graduated in .001"
- Head swivels 360° and is easily raised and lowered.
- Comes with 3" face cutter, 1/2" chuck with key, 3-1/2" angle vise and safety guard.
- Spindle is equipped with four heavy-duty tapered roller bearings.

Model PDM-30
Part No. 6-125-030
\$2,199⁰⁰



Optional Floor Stand
Part No. 6-125-030S
\$259⁹⁹

SPECIFICATIONS:

Drilling Capacity	1-1/4"
Max. Distance Spindle Nose to Table	18-7/8"
Swing	16-1/2"
Spindle Taper / Stroke	R8 / 5"
Diameter of Column	4-3/4"
Speeds	(12) 150-2,500 RPM
Face Mill / End Mill Capacity	3" / 3/4"
Max. Longitudinal Travel	17"
Cross Travel	7-1/4"
Working Area of Table	8-1/4" x 28-3/4"
Size of T-Slot on Table	5/8"
Motor	11 Amp @ 220V
Voltage / Pre-Wired at	220V, 1 PH, 60 Hz. / 220V
Dimensions (L x W x H)	43" x 39" x 42"
Net Weight	600 lbs.
Shipping Weight	675 lbs.



13" Drill Presses with Dual Laser Guide System

Model KC-116N
Part No. 6-125-020
\$350⁰⁰

Model KC-116FC
Part No. 6-125-021
\$375⁰⁰



FEATURES:

- 16 speeds, 3/4 HP.
- 5/8" drill chuck and key included.
- 45° tilting table for angular drilling.
- Cast-iron pulleys reduce vibrations.
- Comes with non-slip rubber feed handles.
- Light socket incorporated into drill press head.
- Spindle is supported by high quality ball bearings.
- Locking depth stop for repetitive blind hold drilling.

SPECIFICATIONS:	KC-116C	KC-116FC
Chuck Size	5/8"	5/8"
Swing	13"	13"
Stroke	3-1/8"	3-1/8"
Table Size	12-13/16"	12-13/16"
Spindle Taper	MT #2	MT #2
Speeds	(16) 210-3,670 RPM	(16) 210-3,670 RPM
Shipping Weight	145 lbs.	175 lbs.



17" & 22" Drill Presses

Model KC118FC
17" Drill Press
Part No. 6-125-022
\$599⁰⁰

Model KC122FC
22" Drill Press
Part No. 6-125-023
\$999⁰⁰

NEW!



FEATURES:

- Powerful 1 HP motor.
- Drill chuck and key included.
- Tilting table for angular drilling.
- 22" drill has 5/8" t-slot on table.
- Cast-iron pulleys reduce vibrations.
- Spindle is supported by high quality ball bearings.
- Light socket incorporated into drill press head.

SPECIFICATIONS:	KC-118FC	KC-122FC
Drilling Capacity	3/4"	1-1/4"
Chuck size	5/8"	3/4"
Swing	17"	22"
Stroke	3-1/4"	4-3/4"
Table Size	13-3/4"	18-3/4" x 16-1/4"
Spindle taper	2 MT	4 MT
Speeds	(16) 240-3,400 RPM	(12) 150-4,200 RPM
Shipping Weight	215 lbs.	360 lbs.



28" Variable Speed Gear Head Drill Press

FEATURES:

- Powerful 2 HP spindle motor, 600V, 3 PH for mild steel.
- Heavy-duty t-slot work table with coolant through and built-in coolant system.
- Power quill feeds disengages at preset depth.

Model KC50
Part No. 6-125-025C
\$4,999⁰⁰

FINANCE AS LOW AS \$119.18/mo.
CALL FOR DETAILS



2 FULL YEAR WARRANTY

SPECIFICATIONS:

Variable Spindle	
Speeds (2)	60-1,870 / 120-1,740 RPM
Drilling Capacity	1-1/2"
Swing	27-1/2"
Table Size	22" x 22"
Spindle Taper / Travel	4MT / 7"
Max. Dist. Chuck to Table	26"
Shipping Weight	1,300 lbs.



8" Bench Drill Press

115V, 1 PH

NEW!

COMPLETE WITH:

- 1/2" Drill Chuck & Arbor
- CSA Approved Electrics
- 2 Year Warranty

Model KC-108C
Part No. 6-125-019
\$99⁹⁹



SPECIFICATIONS:

Drilling Capacity	1/2"
Max. Distance Chuck to Base	10"
Max. Distance Chuck to Table	7"
Spindle Speeds (5)	620-3,100 RPM
Spindle Taper/Travel	33JT/2"
Motor	2.5 amp, 115V, 1 PH
Net Weight	38 lbs.
Shipping Weight	41 lbs.



21" Gear Head Heavy Duty Drill/Mill Machine

FEATURES:

- Rapid & fine manually operated quill feeds.
- 2-speed instant reversing motor for tapping.
- Heavy-duty t-slot work table with coolant trough.
- 4 heavy-duty tapered roller bearings.
- Gear head direct-drive of spindle.

SPECIFICATIONS:

Drilling Capacity	1-1/4"
Spindle Motor	1.5 HP
Spindle Speeds (6)	60-1,500 RPM
Spindle Taper / Travel	R-8 / 5"
Spindle to Table Capacity	Up to 26-1/2"
Diameter of Column	4-1/2"
Table Size	23" x 7-1/2"
Net Weight	575 lbs.

Model KC-40HC
(220V, 1PH)
Part No. 6-125-024
(575V, 3PH)
Part No. 6-125-024C

\$4,999⁰⁰

FINANCE AS LOW AS \$119.15/mo.
CALL FOR DETAILS



2 FULL YEAR WARRANTY

EDGE TECHNOLOGY

Pro Tram System

FEATURES:

- Square the head of a milling machine quickly and easily.
- To use the Pro Tram simply lower unit to the table and adjust the head until both indicators read the same.
- Guaranteed to be equal to or better than any other tramping method or spindle squaring device available.
- 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

Part No. 1-811-01000

Reg. Net Price \$193.73

\$154⁹⁸

INCLUDES:

- Calibration Gage
- Manual Gage
- Padded Case

NEW!

save 20%

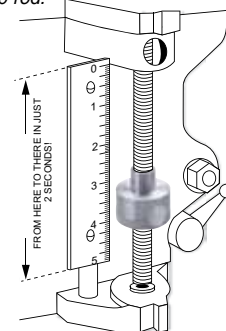
MORTON
machine works

Button Thread® Quill Stop

For all Bridgeport-type mills or any 1/2"-20 stop rod.

FEATURES:

- Easily installed.
- Touching button lets nut slide up and down.
- Turning the nut gives precision micrometer adjustments of .001".
- Releasing the push button locks the nut in place.
- All steel construction with engraved graduations.



Part No. 1-541-QN30

Reg. Net Price \$56.58

\$50⁹²



Adjustable Pedestal Roller Material Support Stands

This versatile work support may be the most valuable accessory you'll ever have in your shop. Can be used for infeed or outfeed or to support wide panels. Unique leg construction allows height adjustment even while loaded - with one hand!

FEATURES:

- Capacity: 500 lbs.
- Non-skid leveling feet.
- Height Adj.: 28.75" - 47.5"
- 4-point leg system for stability.
- Dual bearing galvanized steel roller at 16" x 2".
- Exclusive wedge-lock inner support design.

Super Duty HSS-18

Model No. HSS-18

Part No. 1-820-515

Reg. Net Price \$217.00

\$184⁴⁵



Safety Glasses

FEATURES:

- Exclusive Duramass® scratch-resistant coating.
- Universal nose bridge comfortably fits large user audience.
- 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.

Lens Description	Part No. 1-711-	ONLY!
Clear	-CK110	\$3.10
Grey	-CK112	3.49
Rainbow Mirror	-CK118	5.74



CLEAR



GREY



RAINBOW MIRROR



STANLEY

8 Gallon, 4.5 Peak HP Wet/Dry Vac Stainless Steel Container

NEW!



FEATURES:

- Powerful heavy duty motor for industry leading performance provides maximum suction power for heavy duty pickup.
- Fine dust cartridge filter for cold fireplace ash, auto refinishing, cement dust, sawdust, drywall dust etc. pickup.
- Convenient, built-in power cord wrap.
- Built-in tank drain makes draining easy.
- Accessories holder to get all tools organized.
- Large ON/OFF switch with waterproof design for safe and quick access.
- Strong handle for easy carrying.
- Swiveling casters provide ease of movement in any direction.
- Sealed Pressure: 64" of water
- Rear blower port.
- Power Cord: 16'



ACCESSORIES:

- 1-1/4" x 6' Hose
- (2) Extension Wands
- Crevice Nozzle
- Gulper Nozzle
- Floor Nozzle
- Cartridge Filter
- Disposable Filter Bag
- Air Flow 75 CFM
- 20.00 lbs.

Model SL18017

Part No.

1-926-8255815

Reg. Net Price \$174.96

\$157⁴⁶



Quick Set Shield Kits

SHIELD YOURSELF FROM CHIPS & COOLANT.

KITS INCLUDE:

14" adjustable 3/4" Loc-Line® arm, magnetic base and fitting for fixed mounting.

8-1/2" x 12" Quick-Set Shield Kit

Part No. 1-836-60527

Reg. Net Price \$56.90

\$51²¹



Shop Series

The Shop Series is designed to provide an exceptional value at an economical price. Offered in a selection of mix-and-match sizes and drawer configurations.

NEW!



with global components.



7-Drawer Chest

26" Wide

Recessed plastic handles.

SCH-267RD-F

Color: Red

Part No. 1-824-290

Reg. Net Price \$271.95

\$244⁷⁶

SPECIFICATIONS:

Top Tray Dimensions 25.75" x 11.75" x 1.5"
Overall Dimensions 26" x 12" x 17.5"
Capacity Ea. Drawer (friction slides) 25 lbs.
Weight 43 lbs.



5-Drawer 14" Deep Cabinet 26" Wide

Sturdy 4" x 2" casters support 500 lbs.

SCA-26514RD-F

Color: Red

Part No. 1-824-300

Reg. Net Price \$278.20

\$250³⁸

SPECIFICATIONS:

Overall Dimensions 26.5" x 14" x 32"
Capacity Ea. Drawer (friction slides) 25 lbs.
Weight 58 lbs.





Anti-Fatigue Matting

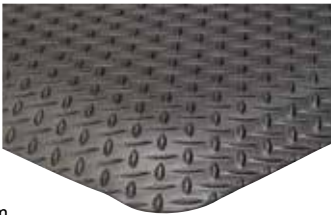
DIAMOND FOOT™ Black

FEATURES:

- Beveled edges for safety.
- 9/16" thick ultra-comfort foam.
- Ergo Flex™ Closed-Cell Foam.
- Industry favorite diamond plate surface for enhanced traction.
- Diamond plate surface made from 100% recycled materials.
- Surface resists common fluids, most chemicals and is non-flammable.
- Limited 3 year warranty against wear and delamination.

Durable vinyl surface bonded to a resilient, closed-cell vinyl foam, providing anti-fatigue and wear characteristics.

Size	Weight (lbs.)	Part No. 1-913-	Reg. Net Price	SALE!
24"x 36"	9	-442S2436	\$54.33	\$48.90
36 x 60	22	-442S3660	135.78	122.20



600S Safety Blow Gun

Part No. 1-816-001
Reg. Net Price \$14.10
\$11.99



600S-DL Standard Tip
Completely tamper-proof nozzle. Designed for maximum safety, maximum efficiency and lowest cost. Supplied with 1/4" NPT female inlet thread and 1/8" female outlet thread. Blow guns conform to OSHA standards for noise levels and less than 30 PSI dead-ended pressure.



770 Pistol Grip Blow Gun

Part No. 1-816-014 **\$16.66**
Reg. Net Price \$19.60



Pistol Grip Blow Gun offers variable flow control and is lightweight, yet rugged. Conforms to OSHA standards for noise levels and less than 30 PSI dead-ended pressure. Brass reinforced inlet, 1/4" FPT.

NEBO SLYDE+ Flashlight & Work Light



The new SLYDE+ is now equipped with programmable memory settings for each light mode, a new C•O•B red light function, a 4x adjustable zoom and instant slide on.

LIGHTING MODES

Mode	Lumens	Run Time (Hours)	Viewing Distance
Flashlight	300	3	135 M
Work Light	200	3.5	21
Red	35	2	8
Red Flash	35	9	8

FEATURES:

- Direct-to-Red Feature (hold button and slide open).
- Memory Power Setting.
- Powerful magnetic base.
- Anodized aircraft-grade aluminum; weather-proof (IPX4) and impact-resistant.
- Convex lens.
- Tactical edge.
- 4x adjustable zoom.
- Fully dimmable.
- Head Diameter: 1.625"
- Length: 7.25" to 9.5"

Part No. 1-541-6525 **\$41.83**
Reg. Net Price \$46.48



MADE BY DURACELL Batteries

FEATURES:

- Alkaline. Mercury free.
- Lasts up to 5x longer than super heavy duty batteries.
- Date coded to ensure freshness.
- Procell is the Duracell Copper Top.
- Long service life at high drain discharges.



Size	Part No. 1-541-	ONLY!
AAA	-PC2400	\$1.09
AA	-PC1500	1.09
C	-PC1400	2.26
D	-PC1300	2.48
9V	-PC1604	3.57

3.0 Volt Lithium



CROSS REFERENCE:
DL2032, CR2032

Part No. 1-541-358
\$3.84

1.5 Volt Silver



CROSS REFERENCE:
D301/386, D, H, 226, SR43(S)(W), G(S)12, WS10, S04, 260, S07

Part No. 1-541-386
\$3.10

1.5 Volt Silver Oxide



CROSS REFERENCE:
303/357, SR44, SR47, 9/7, A, J

Part No. 1-541-357
\$3.07



Heavy Duty Series Static Converters

RUNS MOTOR LOADS ONLY AT 2/3 RATED HP.

Designed especially for running 3-Phase 220-V Machine Tools & Motors on single-phase 220-V power.

HOW TO ORDER SIZE...

- The largest motor on your machine must fall within the minimum and maximum range of the converter.
- Do not order a larger unit or heavy duty model thinking it will give you more horsepower.

WHEN TO USE HEAVY DUTY...

- Heavy starting loads (lathes, flywheel driven equipment, etc.).
- Instant reversing, frequent starting, jogging.
- Air compressors (motor pulley must be reduced by 1/3 in diameter).

HEAVILY LOADED EQUIPMENT...

- For pumps, fans, blowers, direct-drive compressors, or equipment requiring greater than 2/3 of its rated HP, you **MUST USE A PHASE-A-MATIC™ ROTARY CONVERTER.**



FOR LIGHT TO MODERATE LOADS.



H.P. Range: 1 - 3

Model No. PAM-300-H.D

Part No. 1-835-008

Reg. Net Price \$302.25

\$256.91

H.P. Range: 3 - 5

Model No. PAM-600-H.D

Part No. 1-835-009

Reg. Net Price \$387.50

\$329.38

GUARANTEED 12 MONTHS AGAINST MANUFACTURING DEFECTS.



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:

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

Part No. 1-700T-3006
Reg. Net Price \$38.21
\$32.48



Coilflow™ Industrial Interchange Quick-Change Couplers & Connectors

Engineered to interchange with the designs of other manufacturers.

TYPE 15

COUPLERS

Body Size	Thread/Barb	Male Pipe Thread		Female Pipe Thread		Hose Barb	
		Part No. 1-816-	ONLY!	Part No. 1-816-	ONLY!	Part No. 1-816-	ONLY!
1/4"	1/4"	-152	\$8.14	-150	\$7.47	-153	\$10.20
1/4"	3/8"	-155	9.84	-151	10.45	-156	10.90



CONNECTORS

Body Size	Thread/Barb	Male Pipe Thread		Female Pipe Thread		Hose Barb	
		Part No. 1-816-	ONLY!	Part No. 1-816-	ONLY!	Part No. 1-816-	ONLY!
1/4"	1/4"	-1501	\$1.58	-1502	\$1.73	-1506	\$3.49
1/4"	3/8"	-1503	3.30	-1505	3.74	-1508	3.45



Lens Cleaning Towelettes



Anti-static, anti-fog lens cleaning towelettes help maintain and protect eyewear.

100 individually packaged towelettes, per dispenser box.

Part No. 1-711-005
Reg. Net Price \$14.57

\$13.11



LittleGIANT Small Dual Purpose Pump



FEATURES:

- Cast aluminum housing with protective epoxy coating.
- Threaded intake and discharge.
- Nylon pumping head and impeller.
- 6 ft. power cord w/ 3-prong molded plug.
- Thermal overload protection.
- Buna-N seal.

Model 2E-38N

Part No. 1-440-502286

Reg. Net Price \$202.80

\$172³⁸



20 Gallon Recirculating Parts Washer

Part No. 6-125-136 **\$169⁹⁹**

NEW!



INCLUDES:

- Flush hose.
- Solvent pump.
- CSA approved electrics.
- Fusible link fire safety feature.

FEATURES:

- Thermally protected 110V motor and ON/OFF switch.
- 3 way filtration traps grime.
- Safety lever has fusible link which shuts cover in case of fire.
- Flush hose delivers flow of solvent to rinse parts clean, quickly and easily.

SPECIFICATIONS:

Capacity	20 Gal.
Solvent Capacity	12 Gal.
Motor25 Amp/110V
Basin Dimensions	30-1/2" x 21-1/4" x 10"
Height of Stand	24-1/2"
Weight	55 lbs.

Markal B[®] Paintstik[®]



FEATURES:

- Real paint for long-lasting, highly visible marks.
- Superior marking on rough, rusty, or dirty surfaces.
- Weather- and UV-resistant for long-lasting marks.
- Marking Range: -50°F to 150°F
- Solid paint marker eliminates replacement tips, sharpening or priming, increasing productivity.
- Easy-to-hold, recyclable paperboard holder protection for maximum use.



11/16" x 4-3/4"

Color	Part No. 1-443-	ONLY!
White	-84810	\$1.93
Black	-84813	1.93
Yellow	-84811	1.93
Red	-84812	1.93
Orange	-84814	1.93
Blue	-84815	1.93



Quicksetting Putty

Exotic metrology - grade rubber self-curing in minutes. Virtually perfect replica casting of internal & external forms. Excellent for checking optical comparators. Non-toxic easy to use 100 times faster than RTV silicones. No release agent is ever needed.

Roll two equal-sized balls of catalyst putty and base putty and simply knead them together like dough. Excellent for external shapes, also cast internal shapes and cavities, but some pressure should be applied such as a weighted object on top.

3/4 lb. Kit

Part No. 1-820-16130

Reg. Net Price \$271.25

\$244¹³



Final Color - Light Blue
Manipulation Time: 3 - 4 min.
Cure Time: 8 - 10 min.



KOOL MIST PORTaMIST

INCLUDES:

- PORTaMIST Model 60M-12 unit including air and coolant hoses, heavy duty magnetic base, simple single knob control, and 12" flexible LOC-LINE[®] positioner.

Model 60M-12

Part No. 1-437-565

Reg. Net Price \$199.95

\$169⁹⁶



KOOL MIST Mist or Flood Coolant

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.



Concentrated.
1 gallon makes
33 gallons.

1 Gallon Plastic Bottle

Part No. 1-437-771

Reg. Net Price \$68.20

\$57⁹⁷



Original Disk Skimmer

FEATURES:

- Access: 1" x 12"
- Reach: 4.5"
- Handles heavy oil loads.
- Heavy-duty steel construction.
- Continuous duty fan cooled motor.
- Does not retrofit for use with Diverter[™].
- Lifetime warranty on disk and wipers.
- Two year warranty on all other parts.



Model LH300

Part No. 1-122-010

Reg. Net Price \$365.92

\$299⁹⁵

RIDGID Dark Thread Cutting Oil

Protect Dies, Get Better Threads.

Traditional mineral oil with low odor and anti-mist formulation. Thread cutting oil cools threads and pipe during operation, and speeds metal removal. Cutting oils are free of chlorine and other halogens, PCBs and heavy metals.

1 Gallon Bottle

Part No. 1-551-70830

Reg. Net Price \$38.83

\$34⁹⁵



Tapmatic[®] Edge Lube



FEATURES:

- White, solid, waxy bar.
- Extends grinding wheel life.
- Excellent for belt, wheel or disc grinding, & sawing applications.
- Low toxic, biodegradable, low odor.
- Eliminates heat build-up and belt loading.
- Does not contain any hazardous chemicals.

13 oz. Tube

Part No.

1-444-43200

Reg. Net

Price \$27.31

\$23²¹

VICE-GRIP® One-Hand Fast Release Locking Tools

Curved Jaw Locking Pliers with Wire Cutter

Curved jaw puts tremendous pressure on four points of any style nut or bolt head. Equipped with wire cutter.

Model	Size	Jaw Adjust	Part No. 1-820-	Reg. Net Price	SALE!
5WR®	5"	0" - 1-1/8"	-09T	\$22.79	\$19.37
7WR®	7"	0 - 1-1/2"	-07T	23.41	19.90
10WR®	10"	0 - 1-7/8"	-05T	23.79	20.22

VICE-GRIP Fast Release™ locking pliers have a one-handed, triggerless release, so they're twice as easy to open as the traditional design. Anti-pinch, non-slip Pro-Touch™ Grips provide comfort, control, and less hand fatigue. 2x easier opening: no trigger to release, one hand operation.

Long Nose Locking Pliers

Long, straight nose easy access in narrow, hard-to-reach places. Ideal for precision work and hobbies.

Model	Size	Jaw Adjust	Part No. 1-820-	Reg. Net Price	SALE!
6LN®	6"	0" - 2"	-14T	\$24.57	\$20.88

Starrett® EXACT PLUS

10" Torpedo Level



FEATURES:

- Vertical, horizontal, and 45° vials.
- Milled top surface finished with a V-groove and a magnetic bottom surface.
- Sturdy die cast enclosed aluminum frame and finished with durable powder coat paint.

Starrett #KLTXP10-N

Part No. 1-855-30726 **\$2776**

Reg. Net Price \$30.84

NEW!

GENERAL

15-in-1 Multi-Pro Screwdrivers

STANDARD



FEATURES:

- Retractable Bit Cartridge™: Cartridge pulls out from inside the screwdriver handle. Convenient storage area with built in clips for 7 double ended bits.
- EZ-Guide™ Collar: Provides greater control. Maintains alignment between the screwdriver and the fastener. Essential when starting to drive a screw.
- Palm Saver Cap™: Cap stays stationary while turning the handle. Allows for one-handed use of the screwdriver. Largest cap surface in the industry for hand tools, does not blister the palm of your hand.
- Driver handles are made from Engineered nylon/ABS.
- Driver feature an Alloy Steel Shaft - 12T14 Steel.

INCLUDES:

- Slotted: 4+6.
- Phillips: 0+3, 1+2.
- Square: 0+3, 1+2.
- Torx: 10+15, 20+25.
- Shaft opening can serve as a 1/4" hex driver.



Part No. 1-805-8140
Reg. Net Price \$32.01

\$2721

NEW!



KNIPEX®

Alligator® Pliers



FEATURES:

- More output and comfort compared to conventional water pump pliers of the same length.
- Box-joint design: high stability because of double guide.
- Chrome vanadium electric steel, forged, oil-hardened.
- Pinch guard prevents operators' fingers being pinched.
- Robust construction; particularly suitable for heavy duty work.
- Good access to the workpiece due to slim size in the head & joint area.
- Self-locking on pipes and nuts: no slipping on the workpiece and low hand force required.
- Gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and reliable gripping.

Size	Part No. 1-926-	Reg. Net Price	SALE!
7-1/4"	-8801180	\$43.22	\$38.90
10	-8801250	48.57	43.71
12	-8801300	73.58	66.22

NEW!

BONDHUS®



NEW!



ColorGuard™ Ball End L-Wrench Sets

FEATURES:

- Superior rust protection finish.
- Sizes are stamped on the tool.
- Ball End inserts into screw at a 25° angle.
- Color-coded to be distinguished at a glance.
- ColorGuard™ is a color-coded protective finish: durable color-coded finish for superior protection and easy tool identification.

9 Piece Metric Set
Sizes: 1.5, 2, 2.5,
3, 4, 5, 6, 8 & 10mm

Part No. 1-927-69699
Reg. Net Price \$38.95

\$2727

13 Piece Inch Set
Sizes: .050", 1/16", 5/64",
3/32", 7/64", 1/8", 9/64", 5/32",
3/16", 7/32", 1/4", 5/16" & 3/8"

Part No. 1-927-69637
Reg. Net Price \$48.05

\$3364

22 Pc. ColorGuard™
Ball End L-Wrench Set

Part No. 1-927-69600
Reg. Net Price \$82.55

COMBO INCH / METRIC
#69637 (.050" thru 3/8") &
#69699 (1.5mm thru 10mm)

\$5779

WALTON Pipe, Stud & Screw Extractors



Extractor No.	Broken Pipe	Broken Stud or Screw	Part No. 1-391-	Reg. Net Price	SALE!
1	1/8"	3/8"	-001	\$13.85	\$11.77
2	1/4"	1/2"	-002	22.40	19.04
3	3/8"	5/8 or 3/4"	-003	25.85	21.97
4	1/2"	—	-004	31.35	26.65
10	—	7/8 or 1"	-005	38.25	32.51
5	3/4"	1-1/8 or 1-1/4"	-006	43.50	36.98
6	1"	1-1/2 or 1-3/4"	-007	58.20	49.47
7	1-1/4"	2"	-008	82.25	69.91
8	1-1/2"	2-1/4 or 2-1/2"	-009	135.30	115.01
9	2"	3 or 3-1/2"	-010	218.30	185.56

FEATURES:

- Pulls rather than reams.
- Releases instantly from bite after job is completed.
- Designed for strength, durability & easy handling.
- All extractors have a rust-resistant, black oxide finish.
- Works with a shallow grip, reducing expansion & jamming.
- 4 point grip assures strong bite.

6 Piece Set
#1, #2, #3, #4, #5, #6
in a Plastic Case
Part No. 1-391-012
Reg. Net Price \$207.05
\$17599

10 Piece Set
#1, #2, #3, #4, #10, #5, #6,
#7, #8, #9 in a Plastic Case
Part No. 1-391-011
Reg. Net Price \$710.65
\$60405



Right Angle Die Grinders

FEATURES:

- Speed of 20,000 RPMs.
- Air Consumption 3 CFM.
- Overall Length 4-7/8".
- Includes internal regulator to control air pressure.
- Angled head makes it ideal for working in tight spaces.
- Grinder collet holds most 1/4" shank wheels, bits and other accessories.
- Hooks up to any 1/4" air hose coupling.
- Features smooth-action safety lever throttle.

save 40%



Model PT2412

Part No. **1-832-PT2412**

Reg. Net Price \$77.19

\$46³¹

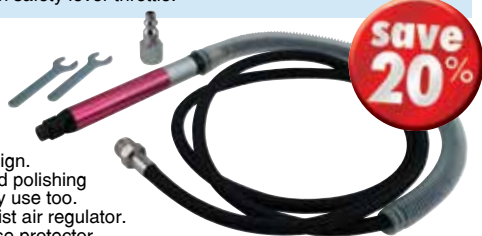
Micro Air Die Grinder

FEATURES:

- Rear exhaust.
- Slim and comfortable design.
- Ideal for final cleaning and polishing of dies, jewelry and hobby use too.
- Built-in variable speed twist air regulator.
- Convenient hose with hose protector.
- Includes nipple and wrenches.

SPECIFICATIONS:

Free Speed (RPM)	56,000
Collet Size	1/8"
Air Pressure (PSI)	90 lbs.
Air Consumption (CFM)	2
Hose Size	3/8"
Air Inlet (NPT)	1/4"
Overall Length	5-1/4"
Weight	0.44 lbs.



save 20%

NEW!



Part No. **1-829-6200**

Reg. Net Price \$66.57

\$53²⁶



1/4" .6 HP Extended Die Grinder

NEW!

FEATURES:

- Four ball bearing construction.
- Insulating vinyl cover for comfort.
- Front exhaust design.

Model MG6HDE

Part No. **3-001C-402115**

Reg. Net Price \$263.25

\$223⁷⁶



SPECIFICATIONS:

Collet Size	1/4"
Speed (RPM)	20,000
Avg. Air Consumption (CFM)	4.5
Air Inlet (NPT)	1/4"
Recomm. Air Pressure	90 PSI
Overall Length	12"
Weight (lbs.)	2.8



M18 FUEL™ 1/2" Hammer Drill/Driver Kit

FEATURES:

- POWERSTATE™ Brushless Motor: Delivers up to 725 in./lbs. of torque with maximum sustained torque to complete the toughest of applications.
- REDLITHIUM™ Battery Technology: Superior pack construction, electronics, and performance deliver more work per charge and more work over pack life than any battery on the market.
- REDLINK PLUS™ Intelligence: The most advanced system of cordless power tool electronics. Provides optimized performance and overload protection using total system communication between tool, battery and charger.

KIT INCLUDES:

- (1) M18 FUEL™ 1/2" Hammer Drill/Driver (2704-20)
- (2) M18™ REDLITHIUM™ XC 5.0 Extended Capacity Battery Pack
- (1) M18™ & M12™ Multi-Voltage Charger
- (1) Carrying Case
- (1) Side Handle



NEW!

SPECIFICATIONS:

Volts	18V
Battery	M18™/M12™
No Load Speed	0-550/0-1,850 RPM
No Load Speed	0-31,450 BPM
Chuck Type	1/2" Metal Single Sleeve
Length	8.1"

Part No. **1-828-2604-22**
Reg. Net Price \$603.26 **\$542⁹³**



1/2" Impact Wrench

FEATURES:

- 1/2" square drive.
- Double insulation.
- Detent pin style anvil.
- Aluminum gear housing.
- Full power in both forward and reverse.

SPECIFICATIONS:

Amps	7
Voltage	120V, 1 PH, 60 Hz
No Load Speed	0-2,700 RPM
Tool Weight	5.4 lbs.

INCLUDES:

- 4 Impact Sockets:
- 11/16", 3/4", 13/16", 7/8"
- Sturdy carrying case.

- 100% ball and roller bearing construction.
- External brush caps for easy brush changes.
- Heavy-duty rocker switch for easy 1 hand reversing.



NEW!

Part No. **6-125-156**

\$99⁹⁹



Precision Drill Bit Sharpener

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

FEATURES:

- Custom points from 115° to 140°.
- Sharpens 3/32"-3/4" 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 - long-lasting wheel is easy to replace after several hundred sharpenings, no tools needed.
- Creates split-point bits from standard bits.
- Sharpens high-speed steel, masonry, carbide, and TiN-coated bits.
- E-Z Align System™ for correct sharpening alignment.
- Comes with case, 180 grit wheel, User's Guide, instructional DVD, 3 Year warranty.



Model DD750X

Part No. **1-817-DD750X**

Reg. Net Price \$240.17

\$204¹⁴



4-1/2" Small Angle Grinder

FEATURES:

- 11.0 Amp 11,000 RPM motor designed for faster material removal and higher overload protection.
- Dust Ejection System™ provides durability by ejecting dust particles that enter the tool through the air intake vents.
- Jam-pot, low profile gear case provides precise gear alignment for a smoother, quieter transmission while allowing access to tight spaces.
- Keyless adjustable guard provides tool free guard adjustment.
- Vibration reducing removable side handle provides user comfort.
- Quick-Change™ Wheel Release provides easier and quicker wheel removal without the need for a wrench.
- Auto-off brushes shut the tool down when the brushes need replacing to avoid tool damage.
- Paddle switch lock-off provides the user protection from accidental start-up.



INCLUDES:

- Blade wrench.
- 2 position side handle.
- Keyless adjustable guard.

SPECIFICATIONS:

Spindle Thread	5/8"-11
Tool Length	11-1/4"
Tool Weight	4.6 lbs.

Part No. **1-826-D28402**
Reg. Net Price \$203.66 **\$183²⁹**



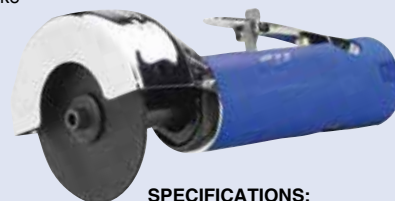
3" Cut-Off Tool

FEATURES:

- Cuts through all types of materials like plastic, fiberglass, steel, composite materials and steel metal.
- 20,000 RPM provides the speed and power to cut through 1" diameter steel rods, copper and aluminum tubing, fiberglass and 1/2" of angle iron.
- Lightweight aluminum housing includes a soft comfort grip which reduces fatigue and protects against cold temperatures.

INCLUDES:

- 3" Air Cut-Off Tool
- 3" Abrasive Wheel
- 14mm Open End Wrench
- 5/32" Allen Wrench



SPECIFICATIONS:

Speed	20,000 RPM
Average SCFM	11.5
Air Inlet (NPT)	1/4"
Wheel Diameter	3"
Tool Weight	1.6 lbs.

Model TL053500AV

Part No. **6-399-202**

Reg. Net Price \$62.85 **\$50²⁸**



BISON Milling Machine Arbors

50% OFF

STYLE A
Provided with 23/32" x 1-3/4" end pilots.

HARDENED & PRECISION GROUND

STARTING AT \$240¹⁸

Include assorted width solid spacers, running bushings with standard keyways & threaded arbor nuts.

Hollow Mills

30% OFF

HIGH SPEED STEEL

4 Teeth For Milling Steel.

Hole Dia.	Shank Dia.	OAL	Part No. 5-540-	NOW!
5/8	1-1/4	2	-070	\$29.30
11/16	1-1/2	2	-075	38.09
3/4	1-1/2	2	-080	38.09
15/16	1-3/4	2-1/4	-095	53.33

Jobbers Reamers

HIGH SPEED STEEL
TAPER SHANK
STRAIGHT FLUTE

STARTING AT \$27⁸³

30% OFF

Designed for machine use in applications where long flutes are required. Jobbers reamers are furnished with 45° chamfers.

Sizes & Prices Available at KBCTools.com

MORTON machine works

Stainless Steel Collar Nuts

AS LOW AS **\$5⁰⁶**

25% OFF

Available in sizes from 1/4"-20 to 1"-8.

Sizes & Prices Available at KBCTools.com

Metric Threaded Shank End Mills

Made by Clarkson Osborn

30% OFF

HIGH SPEED STEEL

AS LOW AS **\$13⁰⁶**

Available in both Two-Flute & Multi-Flute.

Sizes & Prices Available at KBCTools.com

ROMAX CARBIDE

Carbide Tipped Router Bits

1/4" SHANK

Micro-Grain C2 carbide for sharpness and shock resistance.

40% OFF

AS LOW AS **\$4⁷⁵**

Shop All Sizes & Styles at KBCTools.com

VALTRA Bedding Supports

30% OFF

STARTING AT \$123¹⁷

Used in addition to fixed supports. Low profile easily slides under workpiece, where the cutter is most likely to create chatter. Spring loaded plunger pops up to contact the part.

Sizes & Prices Available at KBCTools.com

VALTRA Rotary T-Slot Nuts & Bolts

25% OFF

BOLTS AS LOW AS **\$11⁹⁹**

Available in 1/2"-13, 5/8"-11 & 3/4"-10.

NUTS STARTING AT NOW ONLY! \$7²¹

Sizes & Prices Available at KBCTools.com

Industrial Reference Book BLOWOUT!

AS LOW AS **\$18⁵⁴**

25% OFF

For More Books or Details Shop KBCTools.com

WATERLOO

3-Drawer Utility Cart

Model SP-UC3BK

20% OFF

Part No. 1-824-305 **\$466¹⁴**

Reg. \$582.67

FEATURES:

- Full extension 70 lbs. ball-bearing drawer slides with Posi-Latch® system.
- Gas struts support lid.
- Full-width lid stiffener.
- Rubber bumpers.
- Drawer liners.
- 5" x 2" casters hold 1,100 lbs.
- Tubular keyed locking system.
- Top Tray Dimensions: 26.5" x 17.75" x 5"
- Overall Dimensions: 34" x 20.75" x 37.25"
- Weight: 104 lbs.
- Color: Black

BLACK & DECKER Piranha

Circular Saw Blades

Life of Carbide, Speed of Steel In One Ultimate Performing Saw Blade!

AS LOW AS **\$12²⁶**

50% OFF

Sizes & Prices Available at KBCTools.com

TMX Precision V-Block Set

65% OFF

FEATURES:

- Two reversible clamps with 90° V-Block set.
- Square, parallel and centered within .0002".
- 4-1/8" x 4-1/8" x 3-1/16".
- Capacity: 9/32" - 2-9/16".

Part No. 2-475-040 **\$256¹⁷**

Reg. \$731.91

TOO TIGHTLY

Three-Jaw Self-Centering Scroll Chucks

35% OFF

STARTING AT \$471⁰¹

SEMI-STEEL BODY

Made in Czech Republic. Scrolls & jaws hardened & ground.

DIRECT MOUNTING D-1 CAMLOCK with Two-Piece Reversible Jaws

Sizes & Prices Available at KBCTools.com

KURT

PowerLock Mechanical Drawbar

For Bridgeport Series I STD J, R-8, Step Pulley

Reduces operator fatigue & improves productivity & safety.

20% OFF

Part No. 8-302-BR6001 **\$1,060²⁰**

Reg. \$1,325.25

Carbide Tipped Jobbers Length Drills

WIRE GAUGE SIZES

25% OFF

AS LOW AS **\$13⁰⁹**

Designed for cast iron, non-ferrous metals, composites, plastics and non-metals. Not recommended for drilling steel.

Sizes & Prices Available at KBCTools.com

Straight Tooth Side Milling Cutters

35% OFF

STARTING AT \$41⁵⁴

HIGH SPEED STEEL

General purpose cutters for milling slots, grooves where both side cutting edges are used for machining. Additional teeth for improved finish.

Sizes & Prices Available at KBCTools.com

BOSCH POWER TOOL BLOWOUT!

LIMITED QUANTITY DON'T MISS OUT!

1/2" Brute Tough™ 18V Cordless Drill/Driver

Part No. 1-833-33618-2G **\$283⁴²**

Reg. \$472.36

40% OFF

System Batteries AS LOW AS \$67⁰⁶

7-1/4" Circular Saw

30% OFF

Part No. 1-833-CS20 **\$196²⁸**

Reg. \$280.40

For Complete Product Listing & Prices Shop KBCTools.com

3M Scotch-Brite™ Roloc™ Disc Intro Pack

PACK INCLUDES:

- 2" Scotch-Brite™ Roloc™ SC Surface Conditioning Discs (2 Ea. - Grades: very fine, medium, coarse)
- 3" Scotch-Brite™ Roloc™ SC Surface Conditioning Discs (2 Ea. - Grades: very fine, medium, coarse)
- 2" Scotch-Brite™ Roloc™ Light Grinding and Blending Disc (2 Ea. - Grade: super duty coarse)
- 3" Scotch-Brite™ Roloc™ Light Grinding and Blending Disc (2 Ea. - Grade: super duty coarse)
- (1) 3M™ Roloc™ Disc Pads 2" & 3" (hard)
- (2) 3M™ Roloc™ Shanks

NEW!

Sizes 2" & 3"

Part No. 1-630-18254

Reg. Net Price \$107.26

save
20%

NOW ONLY!
\$85⁸¹



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ALL METAL... ALL THE TIME™

KORLOY® HRMD Indexable End Mill Kits



END MILL KITS INCLUDE:

(20) WNMX-MM Coated
Grade PC5300 Carbide
Inserts & Torx Wrench

FEATURES:

- HRMD insert with symmetrical cutting edge is applicable for both R and L type machining.
- More economical due to the use of 6 cutting edges compared to HRM tool with positive insert.
- Simple screw on system and stable support achieves strong clamping force.
- High rake angle cutting edge and chip breaker reduces cutting load.
- Unique insert design for high feed and multifunctional machining.

INVENTORY SALE!
Quantities Limited.

GRADE PC5300 - Superior universal grade for steel, cast iron, hard to cut material, stainless steel. Coating and ultra fine grain provide wear resistance and oxidation resistance. For turning, milling, grooving, parting, drilling, and threading. Equivalent to P30-P40, M20-M30, K10-K20, S20-S25 grade.

Tool Number	Cutting Dia.	OAL	Cutting Length	Shank Dia.	Cutting Depth	(No. of Inserts used) Uses Insert	Part No. 1-244-	Reg. Net Price	SALE!
HRMDSA09125HR-3M125	1.25"	7.874"	4.724"	1.25"	0.06"	(3) WNMX09T316ZNN-MM	-128	\$371.98	\$334.78
HRMDSA09150HR-4M150	1.50	9.843	1.969	1.25	0.06	(4) WNMX09T316ZNN-MM	-154	480.48	432.43
HRMDSA13125HR-2M125	1.25	7.874	4.724	1.25	0.08	(2) WNMX130520ZNN-MM	-129	534.73	481.26
HRMDSA13150HR-3M150	1.50	9.843	5.118	1.50	0.08	(3) WNMX130520ZNN-MM	-155	650.98	585.88

UNION BUTTERFIELD

Combination Drill & Taps

HIGH SPEED STEEL



FEATURES:

- Helical point is specifically designed to reduce drilling time on high production jobs.
- Accurately drills and taps through holes up to two times the diameter of the tap.
- Self-centering helical point helps eliminate need for spot drilling, center drilling, and holds tight tolerances.

Thread Size	OAL	Thread Length	Drill Length	Drill Dia.	Part No. 1-341-	Reg. Net Price	SALE!
#4-40 NC	1-7/8"	3/8"	1/4"	.091"	-000	\$27.42	\$23.31
#6-32 NC	2	7/16	5/16	.112	-005	27.42	23.31
#8-32 NC	2-1/8	1/2	3/8	.138	-010	27.42	23.31
#10-24 NC	2-3/8	5/8	13/32	.155	-015	27.42	23.31
#10-32 NF	2-3/8	5/8	13/32	.164	-020	29.70	25.25
1/4-20 NC	2-1/2	25/32	17/32	.208	-025	27.42	23.31
1/4-28 NF	2-1/2	25/32	17/32	.220	-030	27.42	23.31
5/16-18 NC	2-23/32	15/16	11/16	.266	-035	40.48	34.41
5/16-24 NF	2-23/32	15/16	11/16	.277	-040	40.48	34.41
3/8-16 NC	2-15/16	1-1/8	13/16	.322	-045	49.15	41.78
3/8-24 NF	2-15/16	1-1/8	13/16	.340	-050	49.15	41.78

Dial Indicators

FEATURES:

- White Face.
- Lug back.
- 4-48 thread.
- Graduation: .001"
- Revolution counter.
- .100 per revolution.
- Dial Reading: 0-100.
- Diameter Stem: 3/8".
- Dial Diameter: 2-1/4".

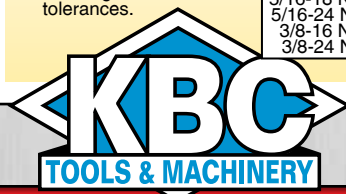


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Range: 0-1"
Part No. 8-100-001
Reg. Net Price \$24.72
NOW ONLY! \$18⁵⁴

Range: 0-2"
Part No. 8-100-050
Reg. Net Price \$62.31
NOW ONLY! \$46⁷³



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