FEATURING SECO

SIMPLIFY YOUR TURNING, GROOVING AND CUT-OFF TOOL SELECTION



See More On Page 4

WILLIAMS



COMBINATION SOCKET SETS

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BAHCO



MILL FILES

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CDI TORQUE PRODUCTS



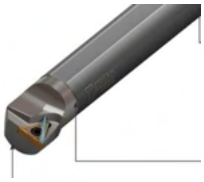
CDI TORQUE WRENCHES

Page 32

Prices Effect July 1st through September 30th, 2024

Carbide Boring Bars

- Deep boring
- Carbide shank
- Alloy steel head- hardened to RC 40-44
- Focused coolant-thru delivery system
- Threaded end on 1/2" and larger bars



Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Minimum Bore Diameter (DMIN)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE
3/8"	6"	0.396"	CCMT2151	**FL4559595**	242.36	**217.95**
1/2"	5"	0.55"	CCMT2151	**FL4559599**	250.52	**224.95**
1/2"	8"	0.55"	CCMT2151	**FL4559603**	329.91	**296.95**
5/8"	6"	0.74"	CCMT3252	**FL4559623**	316.25	**284.95**
5/8"	10"	0.74"	CCMT3252	**FL4559627**	454.80	**408.95**
3/8"	6"	0.396"	CPMT2151	**FL4559635**	242.36	**217.95**
1/2"	8"	0.55"	CPMT2151	**FL4559643**	329.91	**296.95**
5/8"	6"	0.74"	CPMT2151	**FL4559647**	316.25	**284.95**
5/8"	6"	0.74"	CPMT3252	**FL4559663**	316.25	**284.95**
5/8"	10"	0.74"	CPMT3252	**FL4559667**	454.80	**408.95**
3/8"	6"	0.456"	TCMT2151	**FL4559763**	242.36	**217.95**
1/2"	5"	0.587"	TCMT2151	**FL4559767**	250.52	**224.95**
1/2"	8"	0.587"	TCMT2151	**FL4559771**	329.91	**296.95**
5/8"	10"	3/4"	TCMT2151	**FL4559779**	454.80	**408.95**
1"	8"	1.2"	CCMT3252	**FL4559971**	777.45	**699.95**
3/4"	7"	0.93"	TCMT3252	**FL4560027**	495.48	**445.95**
3/4"	10"	0.93"	TCMT3252	**FL4560029**	640.35	**575.95**

23085

Indexable Miniature Boring Bar Set

- For precision finishing boring operations
- Includes 3 boring bars and 10 CVD coated inserts
- For use in alloy steel and stainless steel

Set Includes:Boring Bar Shank Size Minimum Bore

- S06H-SCLCR-2 .375 .394
- S08K-SCLCR-2 .500 .550
- S10M-SCLCR-2 .625 .708
- (10) CCMT 21.51 CVD coated inserts
- (1) T-8 Torx key
- (1) Storage case



Order No.	Regular Price	SALE
FL4585064	379.07	**340.95**

8744

5 Pc. Combined Drills & Countersinks Set #1 - #5

- 60° Plain type
- High speed steel



Order No.	Regular Price	SALE
AV4110000	61.49	**54.95**

22312

Center Drills

Plain Type 60°

- Right hand
- High speed steel



Size	Drill Bit Size / Cutting Diameter (DC)	Overall Length (OAL)	Order No.	Regular Price	SALE
#0	1/32"	1-1/4"	**AV4210032**	9.73	**8.95**
#1	1/8"	1-1/4"	**AV4110100**	6.79	**5.95**
#2	3/16"	1-7/8"	**AV4110200**	7.09	**5.95**
#3	1/4"	2"	**AV4110300**	7.37	**6.95**
#4	5/16"	2-1/8"	**AV4110400**	7.61	**6.95**
#4.5	3/8"	2-1/2"	**AV4114500**	10.51	**8.95**
#5	7/16"	2-3/4"	**AV4110500**	12.09	**10.95**
#6	1/2"	3"	**AV4110600**	18.17	**15.95**
#7	5/8"	3-1/4"	**AV4110700**	27.55	**24.95**
#8	3/4"	3-1/2"	**AV4110800**	37.85	**33.95**
#9	7/8"	3-5/8"	**AV4110900**	68.68	**61.95**
#10	1"	3-3/4"	**AV4111000**	90.17	**80.95**

22469

Dumont Keyway Broach Sets



- Now you can make precision holes or keyways in seconds... a few at a time or production quantities... by a simple push-through broaching operation using a hand operated arbor press or hydraulic press
- All sets furnished in handsome varnished wood box come complete with precision broaches, slotted bushings, and necessary shims
- **Set No. 00** - the most common keyway combinations for small keyways and bores. 3 broaches & 5 bushings (all bushings are collared style) = 15 combinations
- **Set No. 10** - Our best selling broach set. 4 broaches & 9 bushings (all bushings are plain style) = 18 combinations

Bushings	Style	Order No.	Regular Price	SALE
1/4|5/16|3/8|7/16|1/2	A	**FB5011101**	367.61	**311.95**
1/2|5/8|3/4|7/8|1|1-1/8|1-1/4|1-3/8|1-1/2	B|C	**FB5011104**	641.74	**544.95**

22311

Micro Deburring Set

Model FT3000

- Contains 3 micro tools, (1) micro deburring tool FT1000, (1) micro scraper FT1100 and (1) micro rotodrive countersink FT1200
- Ideal for tool and die maker
- For extra fine jobs
- Blades are not replaceable



Order No.	Regular Price	SALE
FN55FT3000	37.73	**31.95**

10093

42" Belt Drive High Volume MANCOOLER®



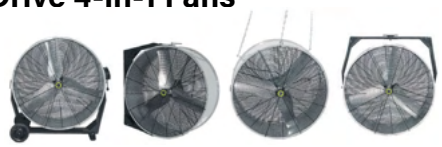
- 1/2 HP/1PH/115V 2 speed ODP motor
- 42" Diameter barrel with wheels
- 3 Blade aluminum propeller
- 42" Blade size
- 14000/8000 CFM High/Low
- 540/400 RPM High/Low
- Epoxy coated steel spiral guards and barrel
- Two speed rocker switch
- 10' Three conductor cord and plug
- 8" Steel wheels
- Fully assembled
- UL/CUL listed
- Shipping weight 120 lbs
- 2 Year warranty

Order No.	Regular Price	SALE
PS50EMC42D	877.36	705.95

Ships by Truck F.O.B. Novi, MI

2442

Direct Drive 4-in-1 Fans



- One fan with four mountings that ship in the same box
- Hanging mount
- Ceiling mount
- Wall mount
- Portable
- Motor: 115V, 1 PH, 2 speed
- Guards, barrel and mountings epoxy coated
- UL listed
- UPS dimensional weight charges apply, ships in one box

Horsepower	Blade Size	Flow	Maximum RPM	Shipping Weight	Order No.	Regular Price	SALE
1/4 hp	30"	5,670/4,590/3,410 CFM	1,100	97.0 lbs	PS50DD3041	627.44	503.95
1/2 hp	36"	11,200/8,090 CFM	830	119 lbs	PS50DD3641	751.52	604.95

2445

1/3 HP Industrial Grade Pedestal Fan



- Motor: 3-speed, 1/3 HP, 120V, 1 phase, totally enclosed, ball bearing, permanently lubricated, permanent split capacitor
- Controls: rear mounted pull cord switch
- Power cord: black, 10', 3-conductor, SJT type
- Coating: blade, guard, and mounts are powder coated steel
- Compliance: ETL, OSHA
-

UPS dimensional weight charges apply, ships in one box

Blade Size	Flow	Order No.	Regular Price	SALE
30"	8,780/7,480/5,570 CFM	PS559170	832.74	485.95
24"	5,770/5,250/4,270 CFM	PS559174	834.94	465.95

22691

1/4 HP Industrial Wall & Pedestal Fans



- Adjustable column - 5' to 8'
- 4400/3460 CFM rating
- 115V, non-oscillating, 1 phase, 3 speed, totally enclosed air over ball bearing motor
- 15' Connecting cord
- Aluminum blades
- Wall/ceiling mounts with safety cable included
- UL/ CUL listed
- 2 Year warranty
- UPS dimensional weight charges apply, ships in one box

Flow	Model	Order No.	Regular Price	SALE
4,400/3,460/2,460 CFM	Adjustable Floor	PS50CA24AP	459.24	412.95
4,400/3,460/2,460 CFM	Wall/Ceiling Mount	PS50CA24WC	360.39	323.95

22699

Commercial Pivot Stand Air Circulators



- 115V, 1 Phase, 3 speed, open drip proof, ball bearing motor
- Aluminum props
- Easy reach switch
- Chrome plated tubular steel base
- 10' Three conductor power cord and plug
- High stand and yoke mount adjusts 360°
- UL listed
- 1 Year commercial warranty
- UPS dimensional weight shipping rates apply

Floor							
Blade Size	Flow	Maximum RPM	Horse-power	Shipping Weight	Order No.	Regular Price	SALE
12"	1855/1550/1300 CFM	1,500	1/16 hp	10.0 lbs	PS5078985	158.40	129.95
12"	1,448/1,165/953 CFM	1,500	1/16 hp	10.0 lbs	PS50C12LS	129.60	116.95
18"	2,966/2,437/2,013 CFM	1,600	1/8 hp	15.0 lbs	PS50C18LS	178.40	160.95

2444

1/4 HP Industrial Wall & Pedestal Fans



- Adjustable column - 5' to 8'
- Permanently sealed ball bearing motor
- 15' Connecting cord
- Aluminum blades
- UL Listed
- 1 Year limited warranty
-

UPS dimensional weight charges apply, ships in one box

- 30" blade

Horsepower	Flow	Model	Order No.	Regular Price	SALE
1/4 hp	6,100/4,400/2,700 CFM	Adjustable Floor	PS50CA30AP	533.28	449.95
1/4 hp	6,100/4,400/2,700 CFM	Wall/Ceiling Mount	PS50CA30WC	380.63	342.95

22700

TURNING, GROOVING, AND CUT-OFF



FEATURED GRADES

- CP500
- CP600
- TGP45





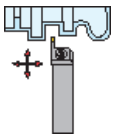
SIMPLIFY YOUR TURNING, GROOVING AND CUT-OFF TOOL SELECTION

MDT & 150.10 KITS

Replace multiple tools in complex components with grooves and profiles with Seco MDT (Multi-Directional Turning & Grooving). The system uses one toolholder and insert for turning, profiling and grooving both axially and radially. The unique Secoloc™ v-shaped clamping delivers the superb stability and safety in addition to high productivity and performance.

Achieve high performance deep grooving and cut-off applications in low alloy steel and stainless steels with 150.10. The high speed steel blades maximize insert stability. The blades come in widths from 2 mm to 6 mm and are compatible with a variety of tool blocks.

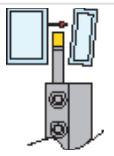
MDT STANDARD & LONG REACH (LG) TOOLHOLDERS



PRODUCT NUMBER	KIT DESCRIPTION	Tool	Insert (10 pcs.)	Insert Width (mm)	KIT PRICE
93101	MDT 1.00 RH 3MM	CFIR 100 03D	LCMF 3MM FT, CP500	3	$285
93103	MDT 1.00 RH 4MM	CFIR 100 04D	LCMF 4MM FT, CP500	4	$285
93110	MDT 1.00 RH 5MM	CFIR 100 05D	LCMF 5MM FT, CP500	5	$300
93111	MDT 1.00 RH 6MM	CFIR 100 06D	LCMF 6MM FT, CP500	6	$326
93130	MDT 1.00 RH LG 3MM	CFMR 100 03D	LCMR 3MM FT, CP500	3	$243
93139	MDT 1.00 RH LG 4MM	CFMR 100 04D	LCMR 4MM FT, CP500	4	$243
93140	MDT 1.00 RH LG 5MM	CFMR 100 05D	LCMR 5MM FT, CP500	5	$254
93150	MDT 1.00 RH LG 6MM	CFMR 100 06D	LCMR 6MM FT, CP500	6	$279

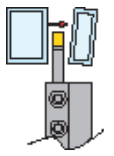
MDT kits include one 1" toolholder, ten inserts and a wrench

150.10A BLADES & TGP45 INSERTS



PRODUCT NUMBER	KIT DESCRIPTION	Tool	Insert (10 pcs.)	KIT PRICE
27444	150.10A 3MM TGP45 1.00	150.10A-20-3	150.10 3N-16-TGP45	$207
27445	150.10A 3MM TGP45 1.25	150.10A-25-3	150.10 3N-16-TGP45	$212
27447	150.10A 4MM TGP45 1.00	150.10A-20-4	150.10 4N-16-TGP45	$217
27448	150.10A 4MM TGP45 1.25	150.10A-25-4	150.10 4N-16-TGP45	$223

150.10A BLADES & CP600 INSERTS



PRODUCT NUMBER	KIT DESCRIPTION	Tool	Insert (10 pcs.)	KIT PRICE
27450	150.10A 3MM CP600 1.00	150.10A-20-3	150.10 3N-16-CP600	$207
27451	150.10A 3MM CP600 1.25	150.10A-25-3	150.10 3N-16-CP600	$212
27453	150.10A 4MM CP600 1.00	150.10A-20-4	150.10 4N-16-CP600	$217
27454	150.10A 4MM CP600 1.25	150.10A-25-4	150.10 4N-16-CP600	$223

150.10A kits include one toolholder, ten inserts and a wrench *Block type toolholder ordered separately. Blade fits in most competitors blocks

SAVE UP TO 60%

FOR MORE DETAILED PRODUCT INFORMATION AND CUTTING DATA RECOMMENDATIONS, VISIT SECOTOOLS.COM

SQUARE SHOULDER MILLING



FEATUREDGRADES

- MP2500
- F40M





COMPREHENSIVE AND VERSATILE SQUARE SHOULDER MILLING

TURBO 6, 10 & 12 KITS

Aggressively optimize your cutting data with Seco's Turbo family of cutters that reduce heat generation and cutting forces.

These cutters are available in a variety of configurations, all with copy milled pockets for insert stability and two pitch configurations to tackle almost any material. Maximize output in roughing to finishing in all facing, slotting, profiling contouring, helical interpolation, ramping, and plunging applications.

R220.69-06 CUTTERS & XOMX INSERTS - MAX PROFILING D.O.C. 0.197"

	PRODUCT NUMBER	KIT DESCRIPTION	KIT CONTENTS				KIT PRICE
			Cutter	Dia.	Shank	Insert (10 pcs.)	
P	23517	TURBO6 .375P KIT	R217.69-00.375-0-06-2AN	0.750	0.375	XOMX 060208R-M05 F40M	$274
	23518	TURBO6 .500P KIT	R217.69-00.500-0-06-3AN	0.500	0.500	XOMX 060208R-M05 F40M	$285
	23519	TURBO6 .625P KIT	R217.69-00.625-0-06-4AN	0.625	0.625	XOMX 060208R-M05 F40M	$336
	23520	TURBO6 .750P KIT	R217.69-00.75-0-06-5AN	0.750	0.750	XOMX 060208R-M05 F40M	$331

R217.69-10 CUTTERS & XOMX/XOEX INSERTS - MAX PROFILING D.O.C. 0.354"

	PRODUCT NUMBER	KIT DESCRIPTION	KIT CONTENTS				KIT PRICE
			Cutter	Dia.	Shank	Insert (10 pcs.)	
P	15429	TURBO10 .625P KIT	R217.69-00.625-3-10-2A	0.625	0.625	XOMX10T308TR-M09MP2500	$326
	15430	TURBO10 .750P KIT	R217.69-00.750-3-10-2A	0.750	0.750	XOMX10T308TR-M09MP2500	$336
	15431	TURBO10 1.00P KIT	R217.69-01.00-3-10-4A	1.000	1.000	XOMX10T308TR-M09MP2500	$373
M	15434	TURBO10 .625M KIT	R217.69-00.625-3-10-2A	0.625	0.625	XOEX 10T308R-M06 F40M	$347
	15436	TURBO10 .750M KIT	R217.69-00.750-3-10-2A	0.750	0.750	XOEX 10T308R-M06 F40M	$362
	15437	TURBO10 1.00M KIT	R217.69-01.00-3-10-4A	1.000	1.000	XOEX 10T308R-M06 F40M	$393

SAVE UP TO $320

R217.69-12 CUTTERS & XOMX/XOEX INSERTS - MAX PROFILING D.O.C. 0.433"

	PRODUCT NUMBER	KIT DESCRIPTION	KIT CONTENTS					KIT PRICE
			Cutter	Dia.	Bore	Shank	Insert (10 pcs.)	
P	40924	TURBO 12 .750P KIT	R217.69-00.75-3-12-2AN	0.750	-	0.750	XOMX120408TR-M12MP2500	$342
	40927	TURBO 12 1.00P KIT	R217.69-01.00-3-12-3AN	1.000	-	1.000	XOMX120408TR-M12MP2500	$362
	40930	TURBO 12 1.25P KIT	R217.69-01.25-3-12-4AN	1.250	-	1.250	XOMX120408TR-M12MP2500	$367
	56264	TURBO 12 1.50P KIT	R220.69-01.50-12-4AN	1.500	-	1.500	XOMX120408TR-M12MP2500	$424
	56265	TURBO 12 2.00P KIT	R220.69-02.00-12-5AN	2.000	0.750	-	XOMX120408TR-M12MP2500	$481
M	40925	TURBO 12 .750M KIT	R217.69-00.75-3-12-2AN	0.750	-	0.750	XOEX 120408R-M07 F40M	$383
	40928	TURBO 12 1.00M KIT	R217.69-01.00-3-12-3AN	1.000	-	1.000	XOEX 120408R-M07 F40M	$388
	40931	TURBO 12 1.25M KIT	R217.69-01.25-3-12-4AN	1.250	-	1.250	XOEX 120408R-M07 F40M	$393
	56267	TURBO 12 1.50M KIT	R220.69-01.50-12-4AN	1.500	-	1.500	XOEX 120408R-M07 F40M	$450
	56268	TURBO 12 2.00M KIT	R220.69-02.00-12-5AN	2.000	0.750	-	XOEX 120408R-M07 F40M	$507

Kits include one cutter body, ten inserts and a wrench

FORMOREDETAILEDPRODUCTINFORMATIONANDCUTTINGDATARECOMMENDATIONS,VISITSECOTOOLS.COM

INTERNAL TOOL Max Groove Carbide

Grooving Tools



- Solid micrograin carbide
- For retaining ring grooves and internal reliefs
- An elliptical neck for greater strength
- Altin coated for a longer life
- Top rake for maximum shearing with a better finish
- All shanks have lockdown flat for faster setups
- Minimum bore +.000/-.005

Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Cutting Width (CW)	Minimum Bore Diameter (DMIN)	Cutting Length	Cutting Depth Maximum (CDX)	Order No.	Regular Price	SALE
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	1/4″	GE97221100	47.48	42.95
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	3/8″	GE97221105	47.48	42.95
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	1/2″	GE97221110	47.48	42.95
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	5/8″	GE97221115	47.48	42.95
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	1/4″	GE97221120	47.48	42.95
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	3/8″	GE97221125	47.48	42.95
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	1/2″	GE97221130	47.48	42.95
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	5/8″	GE97221135	47.48	42.95
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	1/4″	GE97221140	47.48	42.95
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	3/8″	GE97221145	47.48	42.95
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	1/2″	GE97221150	47.48	42.95
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	5/8″	GE97221155	47.48	42.95
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	1/4″	GE97221160	47.48	42.95
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	3/8″	GE97221165	47.48	42.95
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	1/2″	GE97221170	47.48	42.95
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	5/8″	GE97221175	47.48	42.95
1/4″	2-1/2″	0.093″ / 0.095″	1/4″	0.050″	1/4″	GE97221180	47.48	42.95
1/4″	2-1/2″	0.093″ / 0.095″	1/4″	0.050″	3/8″	GE97221185	47.48	42.95
1/4″	2-1/2″	0.093″ / 0.095″	1/4″	0.050″	1/2″	GE97221190	47.48	42.95
1/4″	2-1/2″	0.093″ / 0.095″	1/4″	0.050″	5/8″	GE97221195	47.48	42.95
1/4″	2-1/2″	0.125″ / 0.127″	1/4″	0.050″	1/4″	GE97221200	47.48	42.95
1/4″	2-1/2″	0.125″ / 0.127″	1/4″	0.050″	3/8″	GE97221205	47.48	42.95
1/4″	2-1/2″	0.125″ / 0.127″	1/4″	0.050″	1/2″	GE97221210	47.48	42.95
1/4″	2-1/2″	0.125″ / 0.127″	1/4″	0.050″	5/8″	GE97221215	47.48	42.95
5/16″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	1/4″	GE97221220	59.25	52.95
5/16″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	3/8″	GE97221225	59.25	52.95
5/16″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	1/2″	GE97221230	59.25	52.95
5/16″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	5/8″	GE97221235	59.25	52.95
5/16″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	1/4″	GE97221240	59.25	52.95
5/16″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	3/8″	GE97221245	59.25	52.95
5/16″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	1/2″	GE97221250	59.25	52.95
5/16″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	5/8″	GE97221255	59.25	52.95
5/16″	2-1/2″	0.062″ / 0.064″	0.312″	0.100″	1/2″	GE97221260	59.25	52.95
5/16″	2-1/2″	0.062″ / 0.064″	0.312″	0.100″	3/4″	GE97221265	59.25	52.95
5/16″	2-1/2″	0.062″ / 0.064″	0.312″	0.100″	1″	GE97221270	59.25	52.95
5/16″	2-1/2″	0.093″ / 0.095″	0.312″	0.100″	1/2″	GE97221275	59.25	52.95
5/16″	2-1/2″	0.093″ / 0.095″	0.312″	0.100″	3/4″	GE97221280	59.25	52.95
5/16″	2-1/2″	0.093″ / 0.095″	0.312″	0.100″	1″	GE97221285	59.25	52.95
5/16″	2-1/2″	0.125″ / 0.127″	0.312″	0.100″	1/2″	GE97221290	59.25	52.95
5/16″	2-1/2″	0.125″ / 0.127″	0.312″	0.100″	3/4″	GE97221295	59.25	52.95
5/16″	2-1/2″	0.125″ / 0.127″	0.312″	0.100″	1″	GE97221300	59.25	52.95
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1/4″	GE97221305	78.02	69.95
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	3/8″	GE97221310	78.02	69.95
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1/2″	GE97221315	78.02	69.95
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	3/4″	GE97221320	78.02	69.95
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1″	GE97221325	78.02	69.95
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1-1/4″	GE97221330	78.02	69.95
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1/4″	GE97221335	78.02	69.95
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	3/8″	GE97221340	78.02	69.95
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1/2″	GE97221345	78.02	69.95
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	3/4″	GE97221350	78.02	69.95
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1″	GE97221355	78.02	69.95
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1-1/4″	GE97221360	78.02	69.95
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1/4″	GE97221365	78.02	69.95
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	3/8″	GE97221370	78.02	69.95
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1/2″	GE97221375	78.02	69.95
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	3/4″	GE97221380	78.02	69.95
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1″	GE97221385	78.02	69.95
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1-1/4″	GE97221390	78.02	69.95
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1/4″	GE97221395	78.02	69.95
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	3/8″	GE97221400	78.02	69.95
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1/2″	GE97221405	78.02	69.95
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	3/4″	GE97221410	78.02	69.95
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1″	GE97221415	78.02	69.95
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1-1/4″	GE97221420	78.02	69.95
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1/4″	GE97221425	78.02	69.95
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	3/8″	GE97221430	78.02	69.95
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1/2″	GE97221435	78.02	69.95
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	3/4″	GE97221440	78.02	69.95
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1″	GE97221445	78.02	69.95
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1-1/4″	GE97221450	78.02	69.95
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1/4″	GE97221455	78.02	69.95
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	3/8″	GE97221460	78.02	69.95
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1/2″	GE97221465	78.02	69.95
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	3/4″	GE97221470	78.02	69.95
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1″	GE97221475	78.02	69.95
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1-1/4″	GE97221480	78.02	69.95
3/8″	2-1/2″	0.093″ / 0.095″	3/8″	0.100″	1/2″	GE97221485	78.02	69.95
3/8″	2-1/2″	0.093″ / 0.095″	3/8″	0.100″	3/4″	GE97221490	78.02	69.95
3/8″	2-1/2″	0.093″ / 0.095″	3/8″	0.100″	1″	GE97221495	78.02	69.95
3/8″	2-1/2″	0.125″ / 0.127″	3/8″	0.100″	1/2″	GE97221500	78.02	69.95
3/8″	2-1/2″	0.125″ / 0.127″	3/8″	0.100″	3/4″	GE97221505	78.02	69.95
3/8″	2-1/2″	0.125″ / 0.127″	3/8″	0.100″	1″	GE97221510	78.02	69.95
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	1/2″	GE97221515	104.71	93.95
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	3/4″	GE97221520	104.71	93.95
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	1″	GE97221525	104.71	93.95
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	1-1/4″	GE97221530	104.71	93.95
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	1-1/2″	GE97221535	104.71	93.95
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1/2″	GE97221540	104.71	93.95
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	3/4″	GE97221545	104.71	93.95
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1″	GE97221550	104.71	93.95
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1-1/4″	GE97221555	104.71	93.95
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1-1/2″	GE97221560	104.71	93.95
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1/2″	GE97221565	104.71	93.95
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	3/4″	GE97221570	104.71	93.95
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1″	GE97221575	104.71	93.95
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1-1/4″	GE97221580	104.71	93.95
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1-1/2″	GE97221585	104.71	93.95
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1/2″	GE97221590	104.71	93.95
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	3/4″	GE97221595	104.71	93.95
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1″	GE97221600	104.71	93.95
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1-1/4″	GE97221605	104.71	93.95
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1-1/2″	GE97221610	104.71	93.95
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1/2″	GE97221615	104.71	93.95
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	3/4″	GE97221620	104.71	93.95
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1″	GE97221625	104.71	93.95
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1-1/4″	GE97221630	104.71	93.95
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1-1/2″	GE97221635	104.71	93.95
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	1/2″	GE97221640	104.71	93.95
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	3/4″	GE97221645	104.71	93.95
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	1″	GE97221650	104.71	93.95
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	1-1/4″	GE97221655	104.71	93.95
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	1-1/2″	GE97221660	104.71	93.95

30128

M924 Solid Carbide 4 Flute Corner Radius End Mills



POW*R*FEED Series M924 End Mills

IMCO's M924 is the second generation of the POW•R•FEED M9 series, designed for production environments. Reinforced cutting edges give you even longer tool life in more demanding applications.

- New AlCrNX engineered coating shown to improve tools life exponentially
- Better performance, longer tool life with optimized rake and relief angles
- Plunge, slot, finish in all kinds of materials
- Cut wet or dry, depending on your tool path and the materials you're machining
- Maximum feeds and speeds you never thought possible

				Corner Radius (RE) - 0.015"			Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	1/2"	1-1/2"	DD4167499	36.10	26.95	-	-	-	-	-	-
3/16"	3/16"	9/16"	2"	DD4167511	48.46	35.95	-	-	-	-	-	-
1/4"	1/4"	3/4"	2-1/2"	DD4167525	54.66	40.95	DD4167526	54.66	40.95	-	-	-
1/4"	1/4"	1-1/4"	3"	DD4167531	64.48	47.95	DD4167532	64.48	47.95	-	-	-
1/4"	1/4"	1-3/4"	4"	DD4167547	76.78	57.95	DD4167548	76.78	57.95	-	-	-
5/16"	5/16"	13/16"	2-1/2"	DD4167099	68.06	50.95	DD4167100	68.06	50.95	-	-	-
3/8"	3/8"	1-1/4"	3"	DD4167133	103.55	77.95	DD4167134	103.55	77.95	-	-	-
3/8"	3/8"	2"	4"	DD4167165	127.70	95.95	DD4167166	127.70	95.95	-	-	-
1/2"	1/2"	5/8"	2-1/2"	-	-	-	DD4167206	125.45	93.95	-	-	-
1/2"	1/2"	1"	3"	DD4167214	127.17	94.95	DD4167215	127.17	94.95	DD4167216	127.17	94.95
1/2"	1/2"	1-1/4"	3"	DD4167223	131.93	98.95	DD4167224	131.93	98.95	DD4167225	131.93	98.95
5/8"	5/8"	3/4"	3"	-	-	-	DD4167278	200.49	149.95	-	-	-
5/8"	5/8"	1-3/8"	3-1/2"	-	-	-	DD4167288	207.74	155.95	DD4167289	207.74	155.95
5/8"	5/8"	2-1/8"	4"	-	-	-	DD4167298	249.33	186.95	DD4167299	249.33	186.95
3/4"	3/4"	1-5/8"	4"	-	-	-	DD4167358	348.82	261.95	DD4167359	348.82	261.95
3/4"	3/4"	2-3/8"	5"	-	-	-	DD4167368	398.49	298.95	-	-	-
1"	1"	1-3/4"	4"	-	-	-	DD4167408	551.74	413.95	DD4167409	551.74	413.95

29997

OMEGA® M725 & M726 Solid Carbide 5 & 6 Flute End Mills



For Hard Materials • Square End

- Mills steels heat treated up to 58-62 HRC with or without coolant
- Optomized geometries, stronger cutting edges, superior balance
- 50º Helix creates a high shear plane for better efficiency and chip control
- AlTiN-X coating

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	1/2"	1-1/2"	5	DD4069052	34.19	25.95
1/8"	1/8"	1/4"	1-1/2"	5	DD4069050	33.58	24.95
3/16"	3/16"	5/16"	2"	5	DD4069054	39.73	29.95
3/16"	3/16"	9/16"	2"	5	DD4069056	40.61	29.95
1/4"	1/4"	3/4"	2-1/2"	6	DD4069058	53.29	39.95
1/4"	1/4"	1-1/4"	3"	6	DD4069061	65.05	48.95
3/8"	3/8"	7/8"	2-1/2"	6	DD4069070	84.32	62.95
3/8"	3/8"	1-1/4"	3"	6	DD4069073	105.64	78.95
3/8"	3/8"	2"	4"	6	DD4069076	133.25	99.95
1/2"	1/2"	1"	3"	6	DD4069079	122.61	91.95
1/2"	1/2"	1-1/4"	3"	6	DD4069083	127.22	94.95
1/2"	1/2"	1-5/8"	3-1/2"	6	DD4069087	160.94	120.95
5/8"	5/8"	1-3/8"	3-1/2"	6	DD4069099	221.43	165.95
3/4"	3/4"	1-5/8"	4"	6	DD4069111	354.95	265.95
3/4"	3/4"	2-5/8"	5"	6	DD4069115	438.36	328.95

22460

POW•R•PATH® IPT7 Solid Carbide 7 Flute HEM End Mills



- Specifically designed to maximize High Efficiency Machining (HEM) techniques
- Unique flute design for maximum metal removal rates
- Thick core for maximum stability and tool life
- 40º Helix
- AlCrNX coated

				Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"			Corner Radius (RE) - 1/8"					
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16"	3/16"	3/8"	2"	DD4463478	59.08	43.95	-	-	-	-	-	-	DD4463476	54.51	40.95
3/16"	3/16"	9/16"	2"	DD4463481	60.78	45.95	-	-	-	-	-	-	DD4463479	56.20	41.95
3/16"	3/16"	3/4"	2-1/2"	DD4463484	77.37	57.95	-	-	-	-	-	-	DD4463482	72.77	54.95
1/4"	1/4"	1/2"	2"	DD4463487	68.41	50.95	DD4463488	72.73	54.95	-	-	-	DD4463485	63.79	47.95
1/4"	1/4"	3/4"	2-1/2"	DD4463491	73.50	54.95	DD4463492	77.81	57.95	-	-	-	DD4463489	68.85	51.95
1/4"	1/4"	1"	3"	DD4463495	91.55	68.95	DD4463496	95.86	71.95	-	-	-	DD4463493	86.92	64.95
3/8"	3/8"	3/4"	2-1/2"	DD4463499	98.21	73.95	DD4463500	102.46	76.95	-	-	-	DD4463497	93.40	69.95
3/8"	3/8"	15/16"	2-1/2"	DD4463504	99.57	74.95	DD4463505	103.88	77.95	-	-	-	DD4463502	94.76	70.95
3/8"	3/8"	1-1/8"	3"	DD4463509	111.01	82.95	DD4463510	115.34	86.95	-	-	-	DD4463507	106.22	79.95
3/8"	3/8"	1-1/2"	3-1/2"	DD4463514	139.67	104.95	DD4463515	143.98	107.95	-	-	-	DD4463512	134.88	100.95
1/2"	1/2"	1"	3"	DD4463517	146.61	109.95	DD4463518	150.91	112.95	DD4463520	160.18	119.95	DD4463516	141.64	105.95
1/2"	1/2"	1-1/4"	3-1/4"	DD4463215	162.65	121.95	DD4463216	167.18	124.95	DD4463218	176.93	132.95	DD4463214	157.41	117.95
1/2"	1/2"	1-1/2"	3-1/2"	DD4463527	164.22	122.95	DD4463528	168.52	125.95	DD4463530	177.80	132.95	DD4463526	159.25	118.95
1/2"	1/2"	1-3/4"	4"	DD4463220	183.89	137.95	-	-	-	DD4463238	197.49	147.95	DD4463219	178.72	133.95
1/2"	1/2"	2"	4"	DD4463537	192.80	144.95	DD4463538	197.11	147.95	DD4463540	206.38	154.95	DD4463536	187.82	140.95
1/2"	1/2"	2-1/4"	4"	DD4463542	212.77	159.95	DD4463543	217.09	162.95	DD4463545	226.36	169.95	DD4463541	207.74	155.95
5/8"	5/8"	1-1/4"	3-1/2"	DD4463547	272.71	204.95	DD4463548	277.63	207.95	DD4463550	288.26	215.95	DD4463546	266.93	199.95
5/8"	5/8"	1-9/16"	4"	DD4463242	300.46	224.95	DD4463244	305.48	228.95	DD4463247	316.03	236.95	DD4463240	294.66	220.95
5/8"	5/8"	1-7/8"	4"	DD4463559	304.43	227.95	DD4463560	309.29	231.95	DD4463562	319.93	239.95	DD4463558	298.52	223.95
5/8"	5/8"	2-3/16"	4-1/2"	DD4463258	349.78	261.95	DD4463262	354.48	265.95	DD4463264	365.26	273.95	DD4463253	343.81	257.95
5/8"	5/8"	2-1/2"	5"	DD4463569	395.83	296.95	DD4463570	400.46	299.95	DD4463571	410.57	307.95	DD4463568	390.22	292.95
3/4"	3/4"	1-1/2"	4"	DD4463573	377.75	282.95	DD4463574	382.61	286.95	DD4463575	393.10	294.95	DD4463572	371.79	278.95
3/4"	3/4"	1-7/8"	4-1/2"	DD4463270	435.36	326.95	DD4463271	440.81	330.95	DD4463275	452.53	338.95	DD4463269	427.97	320.95
3/4"	3/4"	2-1/4"	5"	DD4463586	465.08	348.95	DD4463587	470.07	352.95	DD4463589	480.89	360.95	DD4463585	466.46	349.95
3/4"	3/4"	2-5/8"	5"	DD4463593	483.95	362.95	DD4463594	488.87	366.95	DD4463596	499.63	374.95	DD4463592	477.74	357.95
3/4"	3/4"	3"	6"	DD4463598	561.47	420.95	DD4463599	566.29	424.95	DD4463600	576.74	432.95	DD4463597	555.48	416.95

9795

Solid Carbide High Performance Ball Nose End Mills



4-Flute ▪ Variable Index ▪ Center Cutting ▪ AP/Max Coated ▪ for Ferrous Materials ▪ Single End

- Style #CEM-V-4B-TA

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8″	1/8″	1-1/2″	3/8″	4	**CE60C80108**	48.36	**35.95**
3/16″	3/16″	2″	7/16″	4	**CE60C80109**	62.64	**46.95**
1/4″	1/4″	2-1/2″	3/4″	4	**CE60C80110**	76.08	**56.95**
5/16″	5/16″	2-1/2″	13/16″	4	**CE60C80111**	88.76	**66.95**
3/8″	3/8″	2-1/2″	7/8″	4	**CE60C80112**	109.08	**81.95**
7/16″	7/16″	3″	1″	4	**CE60C80113**	139.47	**104.95**
1/2″	1/2″	2-1/2″	5/8″	4	**CE60C80114**	140.99	**105.95**
1/2″	1/2″	3″	1″	4	**CE60C80115**	148.19	**110.95**
5/8″	5/8″	3-1/2″	1-1/4″	4	**CE60C80116**	238.75	**178.95**
3/4″	3/4″	4″	1-1/2″	4	**CE60C80117**	348.14	**260.95**
1″	1″	5″	2-1/4″	4	**CE60C80118**	653.68	**489.95**

29537

HSS, General Purpose, 4-Flute, Center Cutting, Square, Single End, TiCN Coated End Mills



- Style #HG-4C-TC

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8″	3/8″	2-5/16″	3/8″	4	**CE60C33240**	45.79	**33.95**
5/32″	3/8″	2-3/8″	1/2″	4	**CE60C33242**	46.31	**34.95**
3/16″	3/8″	2-3/8″	1/2″	4	**CE60C33244**	41.74	**30.95**
3/16″	3/8″	3-1/16″	1-1/4″	4	**CE60C33406**	45.71	**33.95**
3/16″	3/8″	3-9/16″	1-3/4″	4	**CE60C33457**	50.68	**37.95**
7/32″	3/8″	2-7/16″	5/8″	4	**CE60C33246**	42.30	**31.95**
7/32″	3/8″	3-1/16″	1-1/4″	4	**CE60C33407**	53.77	**39.95**
1/4″	3/8″	2-7/16″	5/8″	4	**CE60C33248**	42.30	**31.95**
1/4″	3/8″	3-1/16″	1-1/4″	4	**CE60C33408**	54.19	**40.95**
17/64″	3/8″	2-1/2″	3/4″	4	**CE60C33249**	47.75	**35.95**
5/16″	3/8″	2-1/2″	3/4″	4	**CE60C33252**	42.97	**31.95**
5/16″	3/8″	3-1/8″	1-3/8″	4	**CE60C33410**	58.12	**43.95**
21/64″	3/8″	2-1/2″	3/4″	4	**CE60C33253**	47.29	**34.95**
11/32″	3/8″	3-1/4″	1-1/2″	4	**CE60C33411**	53.21	**39.95**
23/64″	3/8″	2-1/2″	3/4″	4	**CE60C33255**	45.92	**33.95**
3/8″	3/8″	4-1/4″	2-1/2″	4	**CE60C33463**	70.84	**52.95**
13/32″	3/8″	2-11/16″	1″	4	**CE60C33258**	60.13	**44.95**
27/64″	3/8″	2-11/16″	1″	4	**CE60C33259**	73.93	**54.95**
7/16″	3/8″	2-11/16″	1″	4	**CE60C33260**	65.13	**48.95**
7/16″	1/2″	3-3/4″	1-3/4″	4	**CE60C33414**	67.63	**50.95**
15/32″	1/2″	3-1/4″	1-1/4″	4	**CE60C33262**	66.52	**49.95**
1/2″	3/8″	2-11/16″	1″	4	**CE60C33264**	60.20	**44.95**
1/2″	1/2″	3-1/4″	1-1/4″	4	**CE60C33265**	58.48	**43.95**
1/2″	1/2″	4″	2″	4	**CE60C33416**	76.38	**56.95**
17/32″	1/2″	3-3/8″	1-3/8″	4	**CE60C33266**	106.79	**79.95**
9/16″	1/2″	3-3/8″	1-3/8″	4	**CE60C33267**	117.05	**87.95**
5/8″	1/2″	3-3/8″	1-3/8″	4	**CE60C33269**	105.64	**78.95**
5/8″	5/8″	3-3/4″	1-5/8″	4	**CE60C33270**	103.68	**77.95**
21/32″	5/8″	3-3/4″	1-5/8″	4	**CE60C33271**	120.63	**89.95**
11/16″	5/8″	3-3/4″	1-5/8″	4	**CE60C33273**	120.63	**89.95**
3/4″	1/2″	3-5/8″	1-5/8″	4	**CE60C33275**	127.28	**94.95**
3/4″	3/4″	3-7/8″	1-5/8″	4	**CE60C33277**	123.55	**92.95**
3/4″	3/4″	5-1/4″	3″	4	**CE60C33418**	159.76	**119.95**
3/4″	3/4″	6-1/4″	4″	4	**CE60C33469**	197.43	**147.95**
7/8″	7/8″	4-1/8″	1-7/8″	4	**CE60C33283**	158.51	**118.95**
1″	3/4″	4-1/8″	1-7/8″	4	**CE60C33288**	185.34	**138.95**
1″	1″	4-1/2″	2″	4	**CE60C33290**	185.34	**138.95**

29532

Cobalt, Heavy Duty, 4-Flute, Center Cutting, Square, Single End, TiCN Coated End Mills



- Style #HGC-4C-TC

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/4″	3/8″	3-1/16″	1-1/4″	4	**CE60C32673**	50.83	**37.95**
1/4″	3/8″	3-9/16″	1-3/4″	4	**CE60C32718**	57.70	**42.95**
9/32″	3/8″	3-1/8″	1-3/8″	4	**CE60C32674**	49.91	**36.95**
5/16″	3/8″	3-1/8″	1-3/8″	4	**CE60C32675**	53.67	**39.95**
5/16″	3/8″	3-3/4″	2″	4	**CE60C32720**	64.29	**47.95**
3/8″	3/8″	3-1/4″	1-1/2″	4	**CE60C32677**	50.20	**37.95**
3/8″	3/8″	4-1/4″	2-1/2″	4	**CE60C32722**	67.38	**50.95**
7/16″	3/8″	3-3/4″	1-3/4″	4	**CE60C32679**	64.34	**47.95**
1/2″	1/2″	3-1/4″	1-1/4″	6	**CE60C32634**	59.72	**44.95**
1/2″	1/2″	3-1/4″	1-1/4″	4	**CE60C32633**	53.97	**39.95**
5/8″	5/8″	3-3/4″	1-5/8″	4	**CE60C32635**	106.62	**79.95**
5/8″	5/8″	4-5/8″	2-1/2″	4	**CE60C32682**	144.86	**108.95**
3/4″	3/4″	3-7/8″	1-5/8″	4	**CE60C32637**	136.32	**101.95**
3/4″	3/4″	6-1/4″	4″	4	**CE60C32728**	219.70	**164.95**
7/8″	7/8″	5-3/4″	3-1/2″	4	**CE60C32685**	174.14	**130.95**
1/2″	1/2″	4″	2″	4	**CE60C32681**	70.54	**52.95**
1″	1″	4-1/2″	2″	4	**CE60C32639**	183.35	**137.95**
1″	1″	6-1/2″	4″	4	**CE60C32687**	286.93	**214.95**

29531

Solid Carbide High Performance, 4-Flute, Variable Index, Center Cutting, Square, Single End, AP/Max Coated, End Mills for Ferrous Materials



- Style #CEM-V-4R-TA

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8″	1/8″	1-1/2″	1/4″	4	**CE60C80001**	40.33	**29.95**
1/8″	1/8″	1-1/2″	3/8″	4	**CE60C80003**	39.67	**29.95**
1/8″	1/8″	1-1/2″	1/2″	4	**CE60C80005**	41.60	**30.95**
3/16″	3/16″	2″	3/8″	4	**CE60C80007**	41.95	**30.95**
3/16″	3/16″	2″	7/16″	4	**CE60C80009**	45.41	**33.95**
3/16″	3/16″	2-1/2″	3/4″	4	**CE60C80011**	55.76	**41.95**
1/4″	1/4″	2″	1/2″	4	**CE60C80013**	51.29	**37.95**
1/4″	1/4″	2-1/2″	3/4″	4	**CE60C80015**	62.85	**46.95**
1/4″	1/4″	3″	1-1/8″	4	**CE60C80018**	69.00	**51.95**
1/4″	1/4″	3″	1-1/4″	4	**CE60C80020**	75.53	**56.95**
5/16″	5/16″	2″	1/2″	4	**CE60C80021**	77.56	**57.95**
5/16″	5/16″	2-1/2″	13/16″	4	**CE60C80023**	83.62	**62.95**
5/16″	5/16″	3″	1-1/4″	4	**CE60C80025**	93.03	**69.95**
3/8″	3/8″	2″	5/8″	4	**CE60C80027**	85.30	**63.95**
3/8″	3/8″	2-1/2″	7/8″	4	**CE60C80029**	91.89	**68.95**
3/8″	3/8″	3″	1-1/8″	4	**CE60C80031**	114.60	**85.95**
3/8″	3/8″	4″	2″	4	**CE60C80033**	135.25	**100.95**
7/16″	7/16″	2-1/2″	5/8″	4	**CE60C80035**	117.76	**87.95**
7/16″	7/16″	3″	1″	4	**CE60C80037**	128.44	**95.95**
7/16″	7/16″	4″	2″	4	**CE60C80039**	141.54	**105.95**
1/2″	1/2″	2-1/2″	5/8″	4	**CE60C80040**	135.58	**101.95**
1/2″	1/2″	3″	1″	4	**CE60C80043**	143.31	**106.95**
1/2″	1/2″	3″	1-1/4″	4	**CE60C80048**	132.49	**98.95**
1/2″	1/2″	4″	2″	4	**CE60C80054**	179.23	**133.95**
5/8″	5/8″	3″	3/4″	4	**CE60C80059**	209.30	**156.95**
5/8″	5/8″	3-1/2″	1-1/4″	4	**CE60C80061**	234.05	**175.95**
5/8″	5/8″	5″	2-1/4″	4	**CE60C80066**	318.33	**238.95**
3/4″	3/4″	3″	1″	4	**CE60C80072**	314.18	**235.95**
3/4″	3/4″	4″	1-1/2″	4	**CE60C80074**	331.64	**248.95**
3/4″	3/4″	5″	2-1/4″	4	**CE60C80079**	463.46	**347.95**
1″	1″	4″	1-1/2″	4	**CE60C80084**	561.41	**420.95**
1″	1″	5″	2-1/4″	4	**CE60C80089**	686.48	**514.95**
1″	1″	6″	3″	4	**CE60C80094**	710.37	**532.95**

29536

Solid Carbide, High Performance, 3-Flute Center Cutting, Square, Single End, ZrN Coated, End Mills for Aluminum Materials



- Style #CEM-AM3-ZN

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8″	1/8″	1-1/2″	3/8″	3	CE60C72341	33.36	24.95
3/16″	3/16″	2″	5/16″	3	CE60C72342	39.90	29.95
3/16″	3/16″	2″	9/16″	3	CE60C72343	43.74	32.95
1/4″	1/4″	2-1/2″	3/4″	3	CE60C72345	56.08	41.95
5/16″	5/16″	3-1/2″	1-1/4″	3	CE60C72349	89.73	66.95
3/8″	3/8″	2″	1/2″	3	CE60C72351	62.37	46.95
3/8″	3/8″	2-1/2″	1″	3	CE60C72352	78.69	58.95
3/8″	3/8″	3-1/2″	1-1/2″	3	CE60C72353	102.84	76.95
1/2″	1/2″	2-1/2″	5/8″	3	CE60C72358	113.08	84.95
1/2″	1/2″	3″	1-1/4″	3	CE60C72359	139.24	103.95
1/2″	1/2″	4″	2″	3	CE60C72360	153.61	114.95
5/8″	5/8″	5″	2-1/2″	3	CE60C72364	313.91	234.95
3/4″	3/4″	3″	1″	3	CE60C72366	287.72	215.95
3/4″	3/4″	4″	5/8″	3	CE60C72367	338.75	253.95

29864

Cobalt, Heavy Duty, 2-Flute, Center Cutting, Square, Single End, Bright, End Mills



- Style #HGC-2

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8″	1/8″	2-5/8″	3/4″	2	CE60C75127	26.38	19.95
3/8″	3/8″	2-3/4″	1″	2	CE60C75128	36.72	27.95
3/8″	3/8″	3-1/4″	1-1/2″	2	CE60C75129	41.32	30.95
1/2″	1/2″	2-11/16″	3/16″	2	CE60C75130	35.94	26.95
1/2″	1/2″	3-1/2″	1-1/2″	2	CE60C75131	45.72	33.95
1/2″	1/2″	4″	2″	2	CE60C75132	50.11	37.95
5/8″	5/8″	3-3/8″	1-1/8″	2	CE60C75134	69.26	51.95
3/4″	3/4″	3-5/8″	1-5/16″	2	CE60C75135	79.66	59.95
7/8″	7/8″	4″	1-1/2″	2	CE60C75158	117.08	87.95
7/8″	7/8″	4-1/8″	1-1/2″	2	CE60C75159	119.09	88.95
1″	1″	4″	1-1/2″	2	CE60C75160	133.77	99.95
1″	1″	4-1/8″	1-1/2″	2	CE60C75161	134.32	100.95
1″	1″	5-1/2″	3″	2	CE60C75163	181.12	135.95

29862

Cobalt, Heavy Duty, 4-Flute, Center Cutting, Square, Single End, Bright, End Mills



- Style #HGC-4C

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/4″	3/8″	3-9/16″	1-3/4″	4	CE60C32691	50.43	37.95
9/32″	3/8″	3-1/8″	1-3/8″	4	CE60C32647	43.57	32.95
5/16″	3/8″	3-1/8″	1-3/8″	4	CE60C32648	44.98	33.95
5/16″	3/8″	3-3/4″	2″	4	CE60C32693	55.16	40.95
3/8″	3/8″	3-1/4″	1-1/2″	4	CE60C42857	42.60	31.95
3/8″	3/8″	4-1/4″	2-1/2″	4	CE60C42913	57.40	42.95
7/16″	3/8″	3-3/4″	1-3/4″	4	CE60C32651	55.16	40.95
1/2″	1/2″	4″	2″	4	CE60C42861	59.36	44.95
5/8″	5/8″	3-3/4″	1-5/8″	4	CE60C42703	91.14	67.95
5/8″	5/8″	4-5/8″	2-1/2″	4	CE60C42864	137.42	102.95
3/4″	3/4″	3-7/8″	1-5/8″	4	CE60C42707	115.92	86.95
3/4″	3/4″	6-1/4″	4″	4	CE60C42924	187.23	139.95
7/8″	7/8″	5-3/4″	3-1/2″	4	CE60C32653	146.48	109.95
1″	1″	4-1/2″	2″	4	CE60C42715	156.85	117.95
1″	1″	6-1/2″	4″	4	CE60C42876	255.87	191.95
1-1/2″	1-1/4″	10-1/2″	8″	4	CE60C32698	714.71	535.95
1-1/2″	1-1/4″	10-1/2″	8″	6	CE60C32699	778.68	583.95

29540

Cobalt, Heavy Duty, 2-Flute, Center Cutting, Square, Single End, TiN Coated, End Mills



- Style #HGC-2-TN

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8″	1/8″	2-5/8″	3/4″	2	CE60C75137	29.53	21.95
3/8″	3/8″	2-3/4″	1″	2	CE60C75138	41.14	30.95
3/8″	3/8″	3-1/4″	1-1/2″	2	CE60C75139	46.29	34.95
1/2″	1/2″	2-11/16″	3/16″	2	CE60C75140	40.26	29.95
1/2″	1/2″	3-1/2″	1-1/2″	2	CE60C75141	51.18	37.95
1/2″	1/2″	4″	2″	2	CE60C75142	56.12	41.95
9/16″	9/16″	3-3/8″	1-1/8″	2	CE60C75143	80.50	59.95
5/8″	5/8″	3-3/8″	1-1/8″	2	CE60C75144	77.58	57.95
3/4″	3/4″	3-5/8″	1-5/16″	2	CE60C75145	89.21	66.95
7/8″	7/8″	4″	1-1/2″	2	CE60C75167	131.13	97.95
7/8″	7/8″	4-1/8″	1-1/2″	2	CE60C75168	133.39	99.95
1″	1″	4″	1-1/2″	2	CE60C75169	149.84	111.95
1″	1″	4-1/8″	1-1/2″	2	CE60C75170	150.43	112.95
1″	1″	5-1/2″	3″	2	CE60C75172	202.87	151.95

29863

Solid Carbide, High Performance, 5-Flute, Variable Index, Center Cutting, Square, Single End, AP/Max Coated, End Mills for Ferrous Materials



- Style #CEM-V2-5R-TA

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
3/16″	3/16″	2″	3/8″	5	CE60C80525	35.46	26.95
3/16″	3/16″	2″	7/16″	5	CE60C80527	49.98	36.95
3/16″	3/16″	2-1/2″	3/4″	5	CE60C80529	52.40	38.95
1/4″	1/4″	2″	1/2″	5	CE60C80531	48.62	35.95
1/4″	1/4″	2-1/2″	3/4″	5	CE60C80533	66.06	49.95
1/4″	1/4″	3″	1-1/4″	5	CE60C80537	82.44	61.95
5/16″	5/16″	2″	1/2″	5	CE60C80538	73.76	54.95
5/16″	5/16″	2-1/2″	13/16″	5	CE60C80540	74.19	55.95
5/16″	5/16″	3″	1-1/4″	5	CE60C80542	83.76	62.95
3/8″	3/8″	2″	5/8″	5	CE60C80545	81.31	60.95
3/8″	3/8″	2-1/2″	7/8″	5	CE60C80547	85.53	63.95
3/8″	3/8″	3″	1-1/8″	5	CE60C80549	115.75	86.95
3/8″	3/8″	4″	2″	5	CE60C80551	118.73	88.95
7/16″	7/16″	2-1/2″	5/8″	5	CE60C80553	109.62	81.95
7/16″	7/16″	3″	1″	5	CE60C80555	123.46	92.95
7/16″	7/16″	4″	2″	5	CE60C80557	144.56	107.95
1/2″	1/2″	2-1/2″	5/8″	5	CE60C80558	110.89	82.95
1/2″	1/2″	3″	1″	5	CE60C80560	120.95	90.95
1/2″	1/2″	3″	1-1/4″	5	CE60C80565	137.51	102.95
1/2″	1/2″	4″	2″	5	CE60C80571	174.89	130.95
5/8″	5/8″	3″	3/4″	5	CE60C80576	207.83	155.95
5/8″	5/8″	3-1/2″	1-1/4″	5	CE60C80578	221.40	165.95
5/8″	5/8″	5″	2-1/4″	5	CE60C80583	322.36	241.95
3/4″	3/4″	3″	1″	5	CE60C80588	264.96	198.95
3/4″	3/4″	4″	1-1/2″	5	CE60C80590	321.58	240.95
3/4″	3/4″	5″	2-1/4″	5	CE60C80595	412.68	309.95
1″	1″	4″	1-1/2″	5	CE60C80600	519.11	388.95
1″	1″	5″	2-1/4″	5	CE60C80605	625.26	468.95
1″	1″	6″	3″	5	CE60C80610	822.26	616.95

29538

TuffCut® XT 4 Flute Carbide Ball Nose End Mills



Variable Helix ▪ Altima® Blaze Coated

- Variable 35º/38º helix
- Center cutting
- Higher feeds over similar end mills
- Reduced vibration harmonics
- Improved part finishes
- Maintains cutting edge strength & sharpness for improved tool life
- Slotting at 1X diameter deep
- State-of-the-art ALtima® Blaze coating for superior tool life and higher metal removal rates
- Designed for specific applications in steels, stainless steels, special alloys, cast iron, titanium inconel, and high temp alloys
- M.A. Ford List #279

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/2″	1/2″	1-1/4″	3″	DD1627932	139.90	104.95
1/2″	1/2″	5/8″	2-1/2″	DD1627930	131.42	98.95
1/4″	1/4″	3/4″	2″	DD1627920	51.96	38.95
1/4″	1/4″	3/8″	2″	DD1627918	48.69	36.95
1/8″	1/8″	1/4″	1-1/2″	DD1627910	28.83	21.95
1/8″	1/8″	3/8″	1-1/2″	DD1627912	30.59	22.95
3/16″	3/16″	3/8″	2″	DD1627914	39.91	29.95
3/16″	3/16″	5/8″	2″	DD1627916	42.50	31.95
3/4″	3/4″	1-1/2″	4″	DD1627936	388.21	290.95
3/8″	3/8″	1/2″	2″	DD1627926	80.27	59.95
3/8″	3/8″	7/8″	2″	DD1627928	85.50	63.95
5/16″	5/16″	1/2″	2″	DD1627922	66.76	49.95
5/16″	5/16″	13/16″	2″	DD1627924	71.17	52.95
5/8″	5/8″	1-1/4″	3-1/2″	DD1627934	264.15	197.95
7/16″	1″	7/16″	2-1/2″	DD1627931	110.11	82.95
7/16″	1/2″	7/16″	2-1/2″	DD1627929	103.60	77.95

9944

TuffCut® XR 4 Flute ALtima® Coated HP Ball Nose End Mills



Fractional Sizes

- Center cutting
- 35º/38º Helix
- M.A. Ford Series #179

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/16″	1/8″	1/8″	1-1/2″	DD1618284	37.37	27.95
5/64″	1/8″	5/32″	1-1/2″	DD1618286	34.13	25.95
3/32″	1/8″	3/16″	1-1/2″	DD1618288	34.13	25.95
1/8″	1/8″	1/4″	1-1/2″	DD1618034	27.45	20.95
1/8″	1/8″	3/8″	1-1/2″	DD1618035	29.15	21.95
3/16″	3/16″	3/8″	2″	DD1618038	38.01	28.95
3/16″	3/16″	5/8″	2″	DD1618039	40.45	29.95
1/4″	1/4″	3/8″	2″	DD1518042	41.87	32.95
1/4″	1/4″	3/4″	2-1/2″	DD1618043	49.49	36.95
1/4″	1/4″	1/2″	4″	DD1618063	79.58	59.95
5/16″	5/16″	1/2″	2″	DD1618045	63.58	47.95
5/16″	5/16″	13/16″	2-1/2″	DD1618046	67.79	50.95
3/8″	3/8″	1/2″	2″	DD1618048	76.47	56.95
3/8″	3/8″	7/8″	2-1/2″	DD1618049	81.42	60.95
3/8″	3/8″	9/16″	4″	DD1618064	108.59	80.95
1/2″	1/2″	5/8″	2-1/2″	DD1618054	125.17	93.95
1/2″	1/2″	1-1/4″	3″	DD1618055	133.22	99.95
1/2″	1/2″	5/8″	5″	DD1618065	167.35	125.95
5/8″	5/8″	1-1/4″	3-1/2″	DD1618058	251.58	188.95
5/8″	5/8″	3/4″	6″	DD1618066	298.84	223.95
3/4″	3/4″	1″	6″	DD1618067	430.40	322.95
3/4″	3/4″	1-1/2″	4″	DD1618060	369.74	276.95
1″	1″	1-1/2″	4″	DD1618062	563.14	421.95
1″	1″	1-1/4″	6″	DD1618068	675.43	506.95

9932

WIDIA High Performance Solid Carbide VariMill II™ End Mills



5 Flute ▪ AlTiN Coated

- Unequal flute spacing
- 38º Helix
- Center cutting
- Single tool for both roughing and finishing operations requiring fewer setups
- Slotting up to 1 x D

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Corner Radius (RE)	Shank Type	Order No.	Regular Price	SALE
3/16″	3/16″	5/8″	2-1/4″	0″	Round	WK405577053	33.70	25.30
3/16″	3/16″	5/8″	2-1/4″	0.015″	Round	WK405577051	36.39	27.30
3/16″	3/16″	5/8″	2-1/4″	0.03″	Round	WK405577052	36.39	27.30
1/4″	1/4″	3/4″	2-1/2″	0″	Round	WK405577057	44.47	33.35
1/4″	1/4″	3/4″	2-1/2″	0.015″	Round	WK405577054	48.01	36.00
1/4″	1/4″	3/4″	2-1/2″	0.03″	Round	WK405577055	48.01	36.00
1/4″	1/4″	3/4″	2-1/2″	0.06″	Round	WK405577056	48.01	36.00
5/16″	5/16″	3/4″	2-1/2″	0″	Round	WK405577101	56.44	42.35
5/16″	5/16″	3/4″	2-1/2″	0.015″	Round	WK405577058	60.98	45.75
5/16″	5/16″	3/4″	2-1/2″	0.03″	Round	WK405577059	60.98	45.75
5/16″	5/16″	3/4″	2-1/2″	0.06″	Round	WK405577100	60.98	45.75
3/8″	3/8″	7/8″	2-1/2″	0″	Round	WK405577105	71.39	53.95
3/8″	3/8″	7/8″	2-1/2″	0.015″	Round	WK405577102	77.11	57.95
3/8″	3/8″	7/8″	2-1/2″	0.03″	Round	WK405577103	77.11	57.95
3/8″	3/8″	7/8″	2-1/2″	0.06″	Round	WK405577104	77.11	57.95
1/2″	1/2″	1-1/4″	3″	0″	Round	WK405577116	120.89	90.95
1/2″	1/2″	1-1/4″	3″	0″	Weldon	WK405577117	123.31	91.95
1/2″	1/2″	1-1/4″	3″	0.015″	Round	WK405577106	126.94	94.95
1/2″	1/2″	1-1/4″	3″	0.015″	Weldon	WK405577107	129.47	97.10
1/2″	1/2″	1-1/4″	3″	0.03″	Round	WK405577108	126.94	94.95
1/2″	1/2″	1-1/4″	3″	0.03″	Weldon	WK405577109	129.47	97.10
1/2″	1/2″	1-1/4″	3″	0.06″	Round	WK405577110	126.94	94.95
1/2″	1/2″	1-1/4″	3″	0.06″	Weldon	WK405577111	129.47	97.10
1/2″	1/2″	1-1/4″	3″	0.09″	Round	WK405577112	126.94	94.95
1/2″	1/2″	1-1/4″	3″	0.09″	Weldon	WK405577113	129.47	97.10
1/2″	1/2″	1-1/4″	3″	0.12″	Round	WK405577114	126.94	94.95
5/8″	5/8″	1-1/4″	3-1/2″	0″	Round	WK405577134	220.21	164.95
5/8″	5/8″	1-1/4″	3-1/2″	0″	Weldon	WK405577135	224.60	168.45
5/8″	5/8″	1-1/4″	3-1/2″	0.03″	Round	WK405577118	231.21	172.95
5/8″	5/8″	1-1/4″	3-1/2″	0.03″	Weldon	WK405577119	235.83	176.95
5/8″	5/8″	1-1/4″	3-1/2″	0.06″	Weldon	WK405577131	235.83	176.95
3/4″	3/4″	1-1/2″	4″	0″	Round	WK405577164	308.47	231.35
3/4″	3/4″	1-1/2″	4″	0″	Weldon	WK405577165	314.64	235.95
3/4″	3/4″	1-1/2″	4″	0.03″	Round	WK405577136	323.90	242.95
3/4″	3/4″	1-1/2″	4″	0.03″	Weldon	WK405577137	330.38	247.95
3/4″	3/4″	1-1/2″	4″	0.06″	Round	WK405577138	323.90	242.95
3/4″	3/4″	1-1/2″	4″	0.06″	Weldon	WK405577139	330.38	247.95
3/4″	3/4″	1-1/2″	4″	0.09″	Weldon	WK405577161	330.38	247.95
3/4″	3/4″	1-1/2″	4″	0.12″	Round	WK405577162	323.90	242.95
3/4″	3/4″	1-1/2″	4″	0.12″	Weldon	WK405577163	330.38	247.95
1″	1″	1-3/4″	4-1/2″	0″	Weldon	WK405577185	508.18	380.95
1″	1″	1-3/4″	4-1/2″	0.03″	Round	WK405577166	523.10	391.95
1″	1″	1-3/4″	4-1/2″	0.03″	Weldon	WK405577167	533.57	399.95
1″	1″	1-3/4″	4-1/2″	0.12″	Weldon	WK405577183	533.57	399.95

10674

WIDIA High-Performance Solid Carbide End Mills ▪ Roughing



Series 4M0R 4M4R ▪ Inch

- Center cutting.
- Flat shallow profile.
- Standard items listed. Additional styles and coatings made-to-order.

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Corner Radius (RE)	Order No.	Regular Price	SALE
1/4″	1/4″	2″	3/8″	3	0.03″	WK405577384	85.94	63.95
1/4″	1/4″	2-1/2″	3/4″	4	0.03″	WK405577315	86.65	64.95
3/8″	3/8″	2-1/2″	7/8″	4	0.03″	WK405577316	117.79	87.95
3/8″	3/8″	2″	1/2″	4	0.03″	WK405577385	113.55	84.95
1/2″	1/2″	3″	1-1/4″	4	0.04″	WK405577317	177.25	132.95
3/4″	3/4″	3-1/2″	7/8″	4	0.05″	WK405577388	281.83	210.95
3/4″	3/4″	4″	1-1/2″	4	0.05″	WK405577380	296.67	222.50
3/4″	3/4″	4″	1-1/2″	6	0.05″	WK405577381	396.02	296.95
1″	1″	4″	1-1/2″	4	0.05″	WK405577382	540.40	405.30
1″	1″	4″	1-1/2″	6	0.05″	WK405577383	584.76	438.95

29411

HSS M GP 4 Flute Double End Mills

High Speed Steel



- Non-center cutting or center cutting
- Center cutting allow for plunge cutting like a drill into solid material
- Multi-flute end mills offer higher feed rates, inproved surface finish and greater core strength for reduced tool deflection

					Non-Center Cutting			Center Cutting		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	3/8"	3/8"	3-1/16"	4	MT2243266	29.80	23.95	MT2244251	31.05	24.95
9/64"	3/8"	7/16"	3-1/8"	4	MT2243286	28.11	21.95	MT2243050	31.28	24.95
5/32"	3/8"	7/16"	3-1/8"	4	MT2243267	25.67	20.95	MT2243051	31.05	24.95
11/64"	3/8"	1/2"	3-1/8"	4	MT2243287	28.11	21.95	MT2243052	33.39	26.95
3/16"	3/8"	1/2"	3-1/4"	4	MT2243268	26.76	20.95	MT2244252	31.05	24.95
13/64"	3/8"	9/16"	3-1/4"	4	MT2243288	28.11	21.95	MT2243053	32.03	25.95
7/32"	3/8"	9/16"	3-1/4"	4	MT2243269	30.07	23.95	MT2243054	31.05	24.95
1/4"	3/8"	5/8"	3-3/8"	4	MT2243270	29.97	23.95	MT2244253	31.32	24.95
17/64"	3/8"	11/16"	3-3/8"	4	MT2243290	37.05	29.95	MT2243056	31.46	24.95
9/32"	3/8"	11/16"	3-3/8"	4	MT2243271	44.83	35.95	MT2243057	33.34	26.95
19/64"	3/8"	3/4"	3-1/2"	4	MT2243291	28.37	22.95	MT2243058	33.12	26.50
5/16"	3/8"	3/4"	3-1/2"	4	MT2243272	29.54	23.95	MT2244254	31.32	24.95
21/64"	3/8"	3/4"	3-1/2"	4	MT2243292	28.37	22.95	MT2243059	43.49	34.95
11/32"	3/8"	3/4"	3-1/2"	4	MT2243273	30.65	24.95	MT2243060	32.03	25.95
23/64"	3/8"	3/4"	3-1/2"	4	-	-	-	MT2243061	52.35	41.95
3/8"	3/8"	3/4"	3-1/2"	4	MT2243274	28.37	22.95	MT2244255	33.29	26.95
25/64"	1/2"	1"	4-1/8"	4	MT2243294	55.99	44.95	MT2243062	44.01	34.95
13/32"	1/2"	1"	4-1/8"	4	MT2243275	40.42	31.95	MT2243063	49.74	39.95
27/64"	1/2"	1"	4-1/8"	4	-	-	-	MT2243064	68.38	54.70
7/16"	1/2"	1"	4-1/8"	4	MT2243276	39.12	31.30	MT2243065	49.74	39.95
29/64"	1/2"	1"	4-1/8"	4	-	-	-	MT2243066	58.90	46.95
15/32"	1/2"	1"	4-1/8"	4	MT2243277	45.29	35.95	MT2243067	49.74	39.95
31/64"	1/2"	1"	4-1/8"	4	MT2243297	44.48	35.95	MT2243068	66.07	52.95
1/2"	1/2"	1"	4-1/8"	4	MT2243278	44.48	35.95	MT2244256	49.74	39.95
9/16"	5/8"	1-3/8"	5"	4	MT2243279	54.28	42.95	MT2243069	59.26	46.95
5/8"	5/8"	1-3/8"	5"	4	MT2243280	52.38	41.90	MT2244257	59.26	46.95
11/16"	3/4"	1-5/8"	5-5/8"	4	MT2243281	60.18	47.95	MT2243070	67.40	53.95
3/4"	3/4"	1-5/8"	5-5/8"	4	MT2243282	81.15	64.95	MT2244258	74.74	59.95
7/8"	7/8"	1-7/8"	6-1/8"	4	MT2243284	127.08	101.95	MT2244259	105.88	84.95
15/16"	1"	1-7/8"	6-3/8"	4	MT2243305	93.36	74.95	-	-	-
1"	1"	1-7/8"	6-3/8"	4	MT2243285	137.57	109.95	MT2244260	128.77	102.95

10027

HSS M GP 2 Flute Double End Mills

High Speed Steel ▪ Center Cutting



- 2 Flute end mills provide increased chip capacity and are recommended for slots, keyways and pockets
- Center cutting end allows for plunge cutting like a drill into solid material

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/8"	3/8"	3/8"	3-1/16"	MT2343412	27.80	21.95
9/64"	3/8"	7/16"	3-1/8"	MT2343431	29.28	22.95
5/32"	3/8"	7/16"	3-1/8"	MT2343413	26.25	20.95
11/64"	3/16"	7/16"	3-1/8"	MT2343432	30.11	23.95
3/16"	3/8"	7/16"	3-1/4"	MT2343414	27.80	21.95
13/64"	3/8"	1/2"	3-1/4"	MT2343433	28.68	22.95
7/32"	3/8"	1/2"	3-1/4"	MT2343415	26.91	21.95
15/64"	1/4"	1/2"	3-3/8"	MT2343434	28.68	22.95
1/4"	3/8"	1/2"	3-3/8"	MT2343416	27.80	21.95
17/64"	1/2"	9/16"	3-3/8"	MT2343435	32.93	25.95
9/32"	3/8"	9/16"	3-3/8"	MT2343417	28.36	22.95
19/64"	3/8"	9/16"	3-1/2"	MT2343436	31.13	24.95
5/16"	3/8"	9/16"	3-1/2"	MT2343418	30.04	23.95
21/64"	3/8"	9/16"	3-1/2"	MT2343437	31.88	25.95
11/32"	3/8"	9/16"	3-1/2"	MT2343419	29.15	22.95
23/64"	3/8"	9/16"	3-1/2"	MT2343438	31.62	25.30
3/8"	3/8"	9/16"	3-1/2"	MT2343420	32.41	25.95
25/64"	1/2"	13/16"	4-1/8"	MT2343439	43.09	33.95
13/32"	1/2"	13/16"	4-1/8"	MT2343421	43.32	34.95
27/64"	1/2"	13/16"	4-1/8"	MT2343440	56.23	44.95
7/16"	1/2"	13/16"	4-1/8"	MT2343422	47.76	37.95
29/64"	1/2"	13/16"	4-1/8"	MT2343441	44.83	35.95
15/32"	1/2"	13/16"	4-1/8"	MT2343423	41.17	32.95
31/64"	1/2"	13/16"	4-1/8"	MT2343442	56.23	44.95
1/2"	1/2"	13/16"	4-1/8"	MT2343424	42.75	34.20
9/16"	5/8"	1-1/8"	5"	MT2343425	61.73	48.95
5/8"	5/8"	1-1/8"	5"	MT2343426	57.45	45.95
11/16"	3/4"	1-5/16"	5-7/8"	MT2343427	73.39	58.95
3/4"	3/4"	1-5/16"	5"	MT2343428	103.72	82.95
13/16"	5/8"	1-9/16"	5-1/2"	MT2343448	168.74	134.95
7/8"	7/8"	1-9/16"	5-1/2"	MT2343429	97.99	77.95
1"	1"	1-5/8"	5-7/8"	MT2343430	167.68	133.95

10011

HSS M GP Multi-Flute Single End Mills

List 4550G - High Speed Steel - Square End - Center Cutting - TiN Coated



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE
3/4"	3/4"	1-5/8"	3-7/8"	4	MT2196128	81.96	65.95
17/32"	1/2"	1-3/8"	3-3/8"	4	MT2296096	62.26	49.95
5/8"	1/2"	1-3/8"	3-3/8"	4	MT2296098	74.87	59.90
1/8"	3/8"	3/8"	2-5/16"	4	MT2296100	27.21	21.95
5/32"	3/8"	1/2"	2-3/8"	4	MT2296102	23.71	18.95
3/16"	3/8"	1/2"	2-3/8"	4	MT2296104	27.24	21.95
7/32"	3/8"	5/8"	2-7/16"	4	MT2296106	27.89	21.95
1/4"	3/8"	5/8"	2-7/16"	4	MT2296108	25.88	20.95
9/32"	3/8"	3/4"	2-1/2"	4	MT2296110	27.92	21.95
5/16"	3/8"	3/4"	2-1/2"	4	MT2296112	25.91	20.95
11/32"	3/8"	3/4"	2-1/2"	4	MT2296114	28.63	22.90
3/8"	3/8"	3/4"	2-1/2"	4	MT2296116	28.63	22.90
13/32"	3/8"	1"	2-11/16"	4	MT2296118	40.01	31.95
7/16"	3/8"	1"	2-11/16"	4	MT2296120	38.28	30.95
15/32"	1/2"	1-1/4"	3-1/4"	4	MT2296122	47.18	37.95
1/2"	1/2"	1-1/4"	3-1/4"	4	MT2296124	34.92	27.95
9/16"	1/2"	1-3/8"	3-3/8"	4	MT2296125	67.22	53.95
5/8"	5/8"	1-5/8"	3-3/4"	4	MT2296126	57.82	45.95
11/16"	5/8"	1-5/8"	3-5/8"	4	MT2296127	77.62	62.10
13/16"	3/4"	1-7/8"	4"	4	MT2296129	113.14	90.95
7/8"	3/4"	1-7/8"	4-1/8"	4	MT2296130	125.24	99.95
1"	1"	2"	4-1/2"	4	MT2296132	123.85	98.95
3/4"	5/8"	1-5/8"	3-3/4"	4	MT2296133	99.55	79.95
1"	3/4"	2"	4-1/8"	4	MT2296134	146.71	116.95
1-1/8"	1"	2"	4-1/2"	4	MT2296135	158.46	126.95
1-1/4"	1"	2"	4-1/2"	6	MT2296136	223.10	177.95
1-1/2"	1-1/4"	2"	4-1/2"	6	MT2296138	285.57	227.95

29172

Replacement Blades



ProductName	Blade Type	Shaviv Equivalent	Order No.	Regular Price	SALE
Deburring Blade, for Steel, Plastic and Aluminum	B10CO	None	**FN55B10CO**	2.72	**2.05**
Deburring Blade-TiN Coated, HSS-HD, for Very Small Holes	S150-TiN	None	**FN55BK3112**	3.71	**3.15**
N1 Right-Handed HSS Deburring Swivel Blade Deburring Blade for Steel, Plastic and Aluminum.	N1	B10	**FN55N1**	2.12	**1.60**
Deburring Blade, for Steel, Plastic and Aluminum	N1C	B10C	**FN55N1C**	7.66	**6.50**
Deburring Blade, for Steel, Plastic and Aluminum	N1D	None	**FN55N1D**	12.96	**11.00**
Deburring Blade, left handed, for Steel, Plastic and Aluminum	N1LH	None	**FN55N1LH**	3.00	**2.25**
Deburring Blade, for High Wear Materials	N1TiN	B10P	**FN55N1TIN**	2.79	**2.35**
Deburring Blade, for Brass and Cast Iron	N2	B20	**FN55N2**	2.13	**1.60**
Deburring Blade, for Brass and Cast Iron	N2C	B20C	**FN55N2C**	7.67	**6.50**
Deburring Blade, to Remove External & Internal Burrs	N3	B30	**FN55N3**	2.74	**2.35**
Deburring Blade, for Inside Cross Holes & Back	N6	B60	**FN55N6**	4.14	**3.50**
Deburring Blade, for Steel, Aluminum and Plastic	S10	E100	**FN55S10**	2.81	**2.10**
NOGA S100 COBALT HD BLADE	S100	None	**FN55S100**	3.25	**2.45**
Deburring Blade, HSS-HD, for Small Holes	S101	None	**FN55S101**	2.88	**2.15**
Deburring Blade, left handed, for Small Holes	S101LH	None	**FN55S101LH**	3.42	**2.60**
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10D	None	**FN55S10D**	13.32	**11.30**
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10LH	None	**FN55S10LH**	3.85	**2.90**
NOGA S10TIN HD BLADE TIN	S10TiN	E100P	**FN55S10TIN**	3.56	**2.70**
NOGA S150 HEAVY DUTY	S150	None	**FN55S150**	3.21	**2.40**
Deburring Blade, HSS-HD, for Brass and Cast Iron	S20	E200	**FN55S20**	3.05	**2.30**
Deburring Blade, for Fine Point for Brass & Cast Iron	S202	None	**FN55S202**	3.21	**2.40**
Deburring Blade, for Removing External & Internal Burrs	S30	E300	**FN55S30**	3.08	**2.30**
Deburring Blade,HSS-HD, for Straight Edges	S35	E350	**FN55S35**	3.15	**2.35**
Deburring Blade, for Inside Cross Hole & Back	S60	E600	**FN55S60**	4.36	**3.70**

24088

NG Handles & S & N Holders



For Use With	Type	Order No.	Regular Price	SALE
N Blades	N Blade Holder	**FN55EL01003**	7.21	**6.15**
S Blades	S Blade Holder	**FN55EL02003**	7.21	**6.15**
S Blades	NG-1 Handle	**FN55NG1000**	9.01	**7.65**
N Blades	NG-2 Handle	**FN55NG2000**	9.25	**7.85**
All Blade Holders	NG-3 Handle	**FN55NG3000**	9.25	**7.85**

24075

6 Flute Chatterless Countersink Sets

High Speed Steel ▪ In Plastic Case

- 7 Piece sets include: 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 1" diameter tools
- 4 Piece sets include: 1/4, 1/2, 3/4 and 1" diameter tools
- M A Ford Series #79



Adjustable Scraper



Includes: Anodized handle, T80 double end triangular scraper. Medium sized double sided scraper blade

Application	Order No.	Regular Price	SALE
Scraping, Tri mming, Deburring	**FN55SC8000**	20.96	**17.85**

24094

Double Burr



- Includes: Double burr, hand guard, 2 x N80 blades
- Simultaneously removes burrs from both sides of sheet metal
- Hand guard for safety
- Use one blade only for corners

Order No.	Regular Price	SALE
FN55DB1000	24.34	**20.95**

10075

007

- Deburring, cleaning, finishing and countersinking
- Includes: RB handle, o-ring blade, RD16.5 RotoDrive countersink, EX18 External RotoDrive countersink, thread cleaner blade, S100 blade, S150 blade



Order No.	Regular Price	SALE
FN55007	62.88	**52.95**

10065

Universal Handy Chuck Holder

Model PV1000



- Aluminum handle with non-slip covering
- 3-Jaw chuck helps with the quick and secure clamping of a wide variety of tools. blades and blade holders such as scrapers, countersinks, files, etc.
- Hardness 58 HrC

Order No.	Regular Price	SALE
FN55PV1000	60.39	**51.30**

10120

Ceramic Convexed Cera-Cut & Blades



- Ideal for all plastic materials, soft metals, surface scraping and parting line deflashing
- Blade can be replaced
- Includes: Cera-Cut handle and 250mm convexed radius blade

Included	Order No.	Regular Price	SALE
Cera-Cut Handle / 250 mm Convex Blade	**FN55CR2000**	36.26	**30.95**

10069

	60 Degrees			90 Degrees			82 Degrees			100 Degrees			90 Degrees, TiN			60 Degrees, TiN			82 Degrees, TiN		
Quantity	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4	**BC7579003**	116.02	**98.95**	**BC7579013**	116.02	**98.95**	**BC7579008**	116.02	**98.95**	**BC7579019**	116.02	**98.95**	**BC7579384**	159.60	**135.95**	**BC7579380**	159.60	**135.95**	**BC7579382**	159.60	**135.95**
7	**BC7579001**	168.83	**143.95**	**BC7579011**	168.83	**143.95**	**BC7579006**	168.83	**143.95**	**BC7579016**	168.83	**143.95**	-	-	-	-	-	-	-	-	-

9905

INTERNAL TOOL Solid Carbide Dovetail Cutters

- Solid Micrograin Carbide
- Available uncoated or AlTiN
- Head Diameter +.000-.010



					Uncoated			AlTiN		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Number of Teeth	Angle	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	2"	3	60 Degrees	GE97861095	55.47	49.95	GE97861095C	57.46	51.95
3/16"	3/16"	2-1/2"	3	60 Degrees	GE97861100	62.51	55.95	GE97861100C	65.19	58.95
1/4"	1/4"	2-1/2"	4	60 Degrees	GE97861105	66.55	59.95	GE97861105C	71.91	64.95
5/16"	0.312"	2-1/2"	4	60 Degrees	GE97861107	69.60	62.95	GE97861107C	79.61	71.95
3/8"	3/8"	2-1/2"	5	60 Degrees	GE97861110	71.62	63.95	GE97861110C	77.59	69.95
1/2"	1/2"	3"	6	60 Degrees	GE97861115	87.99	78.95	GE97861115C	98.66	88.95
5/8"	5/8"	3-1/2"	6	60 Degrees	GE97861117	114.66	102.95	GE97861117C	130.02	116.95
3/4"	3/4"	4"	6	60 Degrees	GE97861118	154.07	138.95	GE97861118C	167.46	150.95

30137

Severance Carbide Inside Deburring Cutters

Shear Tooth Design



- For general purpose light deburring applications
- Multi-flute design is self piloting
- May be reground many times
- One tool can deburr many different hole diameters
- Large variety of shanks available
- Noses all come to a point
- Furnished in 60° and 90° angles
- The sectional shear-tooth pattern on these cutters is intended for deburring only
- For heavy chamfering, use chatterless countersinks
- 3/32 thru 1/4" are solid carbide and double end, 5/16 thru 1" are solid carbide heads brazed to hardened alloy precision ground shanks and single end

			90 Degrees			60 Degrees		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/32"	3/32"	1-1/2"	BC5420680	14.50	11.95	BC5420620	14.50	11.95
1/8"	1/8"	1-1/2"	BC5422249	18.89	15.95	BC5422250	18.89	15.95
3/16"	3/16"	2"	BC5420682	27.99	23.95	BC5420622	27.99	23.95
1/4"	1/4"	2"	BC5422412	35.66	29.95	BC5422411	35.66	29.95
5/16"	1/4"	2-1/4"	BC5420688	36.44	30.95	BC5420628	36.44	30.95
3/8"	1/4"	2-1/4"	BC5420689	38.93	32.95	BC5420629	38.93	32.95
1/2"	1/4"	2-1/4"	BC5420693	41.22	34.95	BC5420633	41.22	34.95
1/2"	3/8"	2-1/8"	BC5420694	41.22	34.95	BC5420634	41.22	34.95
5/8"	1/4"	2-3/8"	BC5420699	45.64	38.95	BC5420639	45.64	38.95
5/8"	3/8"	2-3/8"	BC5420700	45.64	38.95	BC5420640	45.64	38.95
3/4"	1/2"	2-11/16"	BC5420704	76.70	64.95	BC5420644	76.70	64.95
1"	1/2"	2-13/16"	BC5420710	153.43	129.95	BC5420650	153.43	129.95

10572

NOGA Countersink, Holders and Blades



Included	Order No.	Regular Price	SALE
NogaGrip 3 Handle / C Holder / C20 Countersink Blade (20 mm)	FN55NG3100	34.23	29.10

22470

NOGA Reversible Countersinks



- RC1000 - very fine tool for deburring both back side and front side of holes. Unique 2 pairs of cutting edges. Cuts in both clockwise and anti clockwise directions.
- RC2000 - similar to RC1000 only larger
- RC2200 - similar to RC2000 only larger

Range	Included	Type	Order No.	Regular Price	SALE
3-5.5 mm	Steel Handle / R1 Blade	Mini-Reversible Set	FN55RC1000	31.09	26.40
5-10 mm	Steel Handle / R2 Blade	Medium-Reversible Set	FN55RC2000	31.09	26.40
10-22 mm	Steel Handle / R3 Blade	Large-Reversible Set	FN55RC2200	36.98	31.40
3.5 - 22 mm	Set of all 3	Mini, Medium, Large	FN55RC3300	99.14	84.30

24089

M.A. FORD Uniflute® Countersinks

High Speed Steel



- For general purpose countersinking, chamfering or deburring
- Self piloting and completely chatterless
- Easily resharpened

			82 Degrees			90 Degrees		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	1/4"	2"	BC7061056	11.31	8.95	BC7061061	11.31	8.95
3/8"	1/4"	2"	BC7061081	12.84	9.95	BC7061086	12.84	9.95
1/2"	1/4"	2"	BC7061106	15.65	12.95	BC7061111	15.65	12.95
5/8"	1/4"	2-1/4"	BC7061131	20.90	16.95	BC7061136	20.90	16.95
3/4"	1/2"	2-3/4"	BC7061156	30.51	23.95	BC7061161	30.51	23.95
1"	1/2"	2-3/4"	BC7061181	50.82	40.95	BC7061186	50.82	40.95
1-1/4"	1/2"	3"	BC7061206	99.43	79.95	BC7061211	99.43	79.95
1-1/2"	3/4"	3-1/2"	BC7061221	134.61	107.95	BC7061226	134.61	107.95

23769

†Straight shank with tang drive.

PROCUT Single Flute Countersinks

High Speed Steel 60°, 82° & 90°



		60 Degrees			82 Degrees			90 Degrees		
Cutting Diameter (DC)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16"	1-1/2"	BC52RF360	5.52	3.85	BC52RF382	5.52	3.85	BC52RF390	5.48	3.85
1/4"	2"	BC52RF460	5.88	4.10	BC52RF482	5.88	4.10	BC52RF490	5.88	4.10
5/16"	2"	BC52RF560	6.08	4.10	BC52RF582	6.08	4.25	BC52RF590	6.08	4.25
3/8"	2"	BC52RF660	6.62	4.60	BC52RF682	6.62	4.60	BC52RF690	6.62	4.60
1/2"	2"	BC52RF860	8.64	6.05	BC52RF882	8.64	6.05	BC52RF890	8.64	6.05
5/8"	2-1/2"	BC52RF1060	11.82	8.30	BC52RF1082	11.82	8.30	BC52RF1090	11.82	8.30
3/4"	2-3/4"	BC52RF1260	16.03	11.25	BC52RF1282	16.03	11.25	BC52RF1290	16.03	11.25
7/8"	2-3/4"	BC52RF1460	25.94	18.15	BC52RF1482	26.20	18.35	BC52RF1490	26.20	18.35
1"	2-3/4"	BC52RF1660	28.13	19.70	BC52RF1682	28.13	19.70	BC52RF1690	28.13	19.70
1-1/4"	3"	BC52RF2060	42.78	29.95	BC52RF2082	42.78	29.95	BC52RF2090	42.78	29.95
1-1/2"	3-3/8"	BC52RF2460	66.62	49.95	BC52RF2482	67.24	47.05	BC52RF2490	67.24	47.05
2"	3-3/4"	BC52RF3260	109.07	75.95	BC52RF3282	110.10	76.95	BC52RF3290	110.10	76.95

24491

A Brand® A-SFT® Spiral Flute Taps



VC10 • Modified Bottoming Style

- Sharp cutting edge stabilizes chip shape
- Variable helix accelerates chip evacuation
- OSG's V coating for long tool life
- Good for carbon steels, alloy steels, 300 and 400 series stainless steels
- OSG List 16500
- DIN Overall Length

Thread Diameter Size (TDZ)	Thread Pitch (TP)	Usable Length (LU)	Thread Tolerance Class (TCTR)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE
M1.4	0.3 mm	11.5 mm	D2	40 mm	2	TP531650003008	65.78	52.95
M1.6	0.35 mm	13.6 mm	D3	40 mm	2	TP531650003108	65.78	52.95
M1.7	0.35 mm	13.4 mm	D3	40 mm	2	TP531650003208	65.78	52.95
M2	0.25 mm	10 mm	D2	45 mm	2	TP531650003308	72.44	57.95
M2	0.4 mm	10 mm	D3	45 mm	2	TP531650003408	54.26	43.40
M2.2	0.25 mm	11 mm	D2	45 mm	2	TP531650003508	81.10	64.95
M2.2	0.45 mm	11 mm	D3	45 mm	2	TP531650003608	54.26	43.40
M2.3	0.4 mm	11.9 mm	D3	45 mm	2	TP531650003708	54.26	43.40
M2.5	0.35 mm	13 mm	D3	50 mm	2	TP531650003808	54.26	43.40
M2.5	0.45 mm	13 mm	D3	50 mm	2	TP531650003908	51.47	41.20
M2.6	0.45 mm	13 mm	D3	50 mm	2	TP531650004008	47.71	38.20
M3	0.5 mm	18 mm	D3	56 mm	3	TP531650000108	38.55	30.95
M3	0.35 mm	18 mm	D3	56 mm	2	TP531650004108	45.64	36.50
M3.5	0.35 mm	20 mm	D3	56 mm	2	TP531650004208	50.35	39.95
M3.5	0.6 mm	20 mm	D3	56 mm	2	TP531650004308	42.92	34.35
M3	0.35 mm	18 mm	D2	56 mm	2	TP531650009708	45.64	36.95
M3	0.5 mm	18 mm	D3	56 mm	3	TP531650009808	38.44	30.95
M3.5	0.35 mm	20 mm	D3	56 mm	3	TP531650009908	50.35	39.95
M3.5	0.6 mm	20 mm	D3	56 mm	3	TP531650010008	42.92	33.95
M4	0.5 mm	20.9 mm	D3	63 mm	3	TP531650000208	33.74	27.00
M4	0.7 mm	20.9 mm	D4	63 mm	3	TP531650000308	32.13	25.70
M4	0.5 mm	20.9 mm	D3	63 mm	3	TP531650010108	33.74	26.95
M4	0.7 mm	20.9 mm	D4	63 mm	3	TP531650010208	32.13	25.70
M5	0.5 mm	25.1 mm	D3	70 mm	3	TP531650000408	34.45	27.55
M5	0.8 mm	25.1 mm	D4	70 mm	3	TP531650000508	32.81	26.25
M4.5	0.5 mm	24.9 mm	D3	70 mm	3	TP531650004408	40.75	32.60
M4.5	0.75 mm	24.9 mm	D4	70 mm	3	TP531650004508	38.80	31.05
M4.5	0.5 mm	24.9 mm	D3	70 mm	3	TP531650010308	40.75	32.95
M4.5	0.75 mm	24.9 mm	D4	70 mm	3	TP531650010408	38.80	30.95
M5	0.5 mm	25.1 mm	D3	70 mm	3	TP531650010508	34.45	27.95
M5	0.8 mm	25.1 mm	D4	70 mm	3	TP531650010608	32.81	25.95
M6	0.5 mm	29.9 mm	D3	80 mm	3	TP531650000608	41.82	33.45
M6	0.75 mm	29.9 mm	D4	80 mm	3	TP531650000708	38.01	29.95
M6	1 mm	29.9 mm	D5	80 mm	3	TP531650000808	36.18	28.95
M5.5	0.5 mm	30.1 mm	D3	80 mm	3	TP531650004608	38.77	31.05
M7	0.75 mm	30 mm	D4	80 mm	3	TP531650004708	46.35	37.10
M7	1 mm	30 mm	D5	80 mm	3	TP531650004808	46.35	37.10
M8	0.75 mm	33 mm	D4	80 mm	3	TP531650004908	46.25	37.00
M5.5	0.5 mm	30.1 mm	D3	80 mm	3	TP531650010708	38.77	30.95
M6	0.5 mm	29.9 mm	D3	80 mm	3	TP531650010808	41.82	32.95
M6	0.75 mm	29.9 mm	D4	80 mm	3	TP531650010908	38.01	29.95
M6	1 mm	29.9 mm	D5	80 mm	3	TP531650011008	36.18	28.95
M7	0.75 mm	30 mm	D4	80 mm	3	TP531650011108	46.35	36.95
M7	1 mm	30 mm	D5	80 mm	3	TP531650011208	46.35	36.95
M8	0.75 mm	33 mm	D4	80 mm	3	TP531650011308	46.25	37.00
M8	1 mm	35 mm	D5	90 mm	3	TP531650000908	42.11	33.70
M8	1.25 mm	35 mm	D5	90 mm	3	TP531650001008	40.10	32.10
M10	1 mm	35 mm	D5	90 mm	3	TP531650001108	63.08	49.95
M9	0.75 mm	35 mm	D4	90 mm	3	TP531650005008	61.93	49.55
M9	1 mm	35 mm	D5	90 mm	3	TP531650005108	59.26	47.40
M9	1.25 mm	35 mm	D5	90 mm	3	TP531650005208	56.97	45.60
M10	0.75 mm	35 mm	D4	90 mm	3	TP531650005308	70.26	55.95
M8	1 mm	35 mm	D5	90 mm	3	TP531650011408	42.11	33.95
M8	1.25 mm	35 mm	D5	90 mm	3	TP531650011508	40.10	31.95
M9	0.75 mm	35 mm	D4	90 mm	3	TP531650011608	61.93	49.95
M9	1 mm	35 mm	D5	90 mm	3	TP531650011708	59.26	46.95
M9	1.25 mm	35 mm	D5	90 mm	3	TP531650011808	56.97	45.95
M10	0.75 mm	35 mm	D4	90 mm	3	TP531650011908	70.26	55.95
M10	1 mm	35 mm	D5	90 mm	3	TP531650012008	63.08	49.95
M11	0.75 mm	43.5 mm	D4	90 mm	3	TP531650005408	74.95	59.95
M11	1 mm	43.5 mm	D5	90 mm	3	TP531650005508	71.65	56.95
M11	0.75 mm	43.5 mm	D4	90 mm	3	TP531650012308	74.95	59.95
M11	1 mm	43.5 mm	D5	90 mm	3	TP531650012408	71.65	56.95
M10	1.25 mm	39 mm	D5	100 mm	3	TP531650001208	63.08	49.95
M10	1.5 mm	39 mm	D6	100 mm	3	TP531650001308	63.08	49.95
M12	1 mm	49.1 mm	D5	100 mm	3	TP531650001408	75.24	59.95
M12	1.25 mm	49.1 mm	D6	100 mm	3	TP531650001508	75.24	59.95
M12	1.5 mm	49.1 mm	D6	100 mm	3	TP531650001608	75.23	59.95
M14	1.5 mm	50.1 mm	D6	100 mm	3	TP531650001808	103.57	82.95
M16	1.5 mm	54 mm	D6	100 mm	3	TP531650002008	110.68	88.95
M10	1.25 mm	39 mm	D5	100 mm	3	TP531650012108	63.08	49.95
M10	1.5 mm	39 mm	D6	100 mm	3	TP531650012208	63.08	49.95
M11	1.5 mm	43.5 mm	D6	100 mm	3	TP531650005608	68.17	54.95
M14	1 mm	50.1 mm	D5	100 mm	3	TP531650005708	119.37	95.50
M14	1.25 mm	50.1 mm	D6	100 mm	3	TP531650005808	113.96	90.95
M15	1 mm	54 mm	D5	100 mm	3	TP531650005908	120.84	96.95
M15	1.5 mm	54 mm	D6	100 mm	3	TP531650006008	109.83	87.95
M16	1 mm	54 mm	D5	100 mm	3	TP531650006108	121.76	96.95
M17	1.5 mm	55 mm	D6	100 mm	3	TP531650006208	135.60	107.95
M17	1 mm	55 mm	D5	100 mm	3	TP531650006308	149.19	118.95
M18	1 mm	55 mm	D5	100 mm	4	TP531650006408	184.35	146.95
M11	1.25 mm	43.5 mm	D5	100 mm	3	TP531650012508	68.17	54.95
M11	1.5 mm	43.5 mm	D6	100 mm	3	TP531650012608	68.17	54.95
M12	1 mm	49.1 mm	D5	100 mm	3	TP531650012708	75.24	59.95
M12	1.25 mm	49.1 mm	D6	100 mm	3	TP531650012808	75.24	59.95
M12	1.5 mm	49.1 mm	D6	100 mm	3	TP531650012908	75.23	59.95
M15	1.25 mm	54 mm	D6	100 mm	3	TP531650013208	120.84	96.95
M16	1.25 mm	54 mm	D6	100 mm	3	TP531650013308	121.76	96.95
M17	1.25 mm	55 mm	D6	100 mm	3	TP531650013408	149.19	118.95
M12	1.75 mm	49.1 mm	D6	110 mm	3	TP531650001708	75.23	59.95
M14	2 mm	50.1 mm	D7	110 mm	3	TP531650001908	103.58	82.95
M16	2 mm	54 mm	D7	110 mm	3	TP531650002108	110.67	88.95
M18	1.5 mm	55 mm	D6	110 mm	4	TP531650002208	160.15	127.95
M12	1.75 mm	49.1 mm	D6	110 mm	3	TP531650013008	75.23	59.95
M15	2 mm	54 mm	D7	110 mm	3	TP531650013108	120.84	96.95
M18	1.25 mm	55 mm	D6	110 mm	4	TP531650013508	184.35	146.95
M18	2.5 mm	55 mm	D7	125 mm	4	TP531650002308	160.15	127.95
M20	1.5 mm	61.8 mm	D6	125 mm	4	TP531650002408	222.91	177.95
M22	1.5 mm	67.4 mm	D6	125 mm	4	TP531650002608	243.42	194.95
M18	2 mm	55 mm	D7	125 mm	4	TP531650006508	160.15	127.95
M20	1 mm	61.8 mm	D5	125 mm	4	TP531650006608	249.55	199.95
M22	1 mm	67.4 mm	D5	125 mm	4	TP531650006808	269.25	215.40
M20	2.5 mm	61.8 mm	D7	140 mm	4	TP531650002508	222.90	177.95
M22	2.5 mm	67.4 mm	D7	140 mm	4	TP531650002708	243.43	194.95
M24	1.5 mm	68.4 mm	D6	140 mm	4	TP531650002808	318.40	254.95
M20	2 mm	61.8 mm	D7	140 mm	4	TP531650006708	222.91	177.95
M22	2 mm	67.4 mm	D7	140 mm	4	TP531650006908	243.42	194.95
M24	1 mm	68.4 mm	D5	140 mm	4	TP531650007008	357.70	285.95
M24	2 mm	68.4 mm	D7	140 mm	4	TP531650007108	318.40	254.95
M27	1.5 mm	60 mm	D8	140 mm	4	TP531650007208	369.51	295.95
M27	2 mm	60 mm	D8	140 mm	4	TP531650007308	369.51	295.95
M30	1.5 mm	70 mm	D8	150 mm	4	TP531650007508	407.06	325.65
M30	2 mm	70 mm	D9	150 mm	4	TP531650007608	407.06	325.65
M24	3 mm	68.4 mm	D8	160 mm	4	TP531650002908	318.40	254.95
M27	3 mm	80 mm	D10	160 mm	4	TP531650007408	369.51	295.95
M33	1.5 mm	75 mm	D8	160 mm	4	TP531650007808	472.76	377.95
M33	2 mm	75 mm	D9	160 mm	4	TP531650007908	472.76	377.95
M36	1.5 mm	85 mm	D8	170 mm	4	TP531650008108	614.30	490.95
M36	2 mm	85 mm	D9	170 mm	4	TP531650008208	614.30	490.95
M42	1.5 mm	70 mm	D8	170 mm	4	TP531650008608	743.81	595.05
M42	2 mm	70 mm	D9	170 mm	4	TP531650008708	743.81	595.05
M30	3.5 mm	100 mm	D11	180 mm	4	TP531650007708	407.06	325.65
M33	3.5 mm	95 mm	D11	180 mm	4	TP531650008008	472.76	377.95
M48	1.5 mm	80 mm	D8	190 mm	4	TP531650009208	1060.48	847.95
M48	2 mm	80 mm	D9	190 mm	4	TP531650009308	1060.48	847.95
M36	3 mm	115 mm	D10	200 mm	4	TP531650008308	614.30	490.95
M36	4 mm	115 mm	D11	200 mm	4	TP531650008408	614.30	490.95
M39	4 mm	110 mm	D11	200 mm	4	TP531650008508	654.79	523.95
M42	3 mm	100 mm	D10	200 mm	4	TP531650008808	743.81	595.05
M42	4.5 mm	100 mm	D12	200 mm	4	TP531650008908	743.81	595.05
M45	3 mm	100 mm	D10	200 mm	4	TP531650009008	872.46	697.95
M45	4.5 mm	120 mm	D12	220 mm	4	TP531650009108	872.46	697.95
M48	3 mm	115 mm	D11	225 mm	4	TP531650009408	1060.48	847.95
M48	5 mm	140 mm	D13	250 mm	4	TP531650009508	1060.48	847.95
M56	5.5 mm	130 mm	D14	250 mm	4	TP531650009608	1232.99	985.95

10206

A Brand® A-POT® Spiral Pointed Taps

VC10 ▪ Plug Style



- Sharp cutting edge stabilizes chip shape
- Variable helix accelerates chip evacuation
- OSG's V coating for long tool life
- Good for carbon steels, alloy steels, 300 and 400 series stainless steels
- OSG List 16510
- DIN Overall Length

Thread Diameter Size (TDZ)	Thread Pitch (TP)	Usable Length (LU)	Thread Tolerance Class (TCTR)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE
M1.4	0.3 mm	9 mm	D2	40 mm	2	TP531651003008	55.42	44.35
M1.6	0.35 mm	9 mm	D3	40 mm	2	TP531651003108	55.42	44.25
M1.7	0.35 mm	11 mm	D3	40 mm	2	TP531651003208	55.42	44.35
M2	0.25 mm	12 mm	D2	45 mm	2	TP531651003308	62.95	49.95
M2	0.4 mm	12 mm	D3	45 mm	2	TP531651003408	46.23	36.95
M2.2	0.25 mm	12 mm	D2	45 mm	2	TP531651003508	62.95	49.95
M2.2	0.45 mm	12 mm	D3	45 mm	2	TP531651003608	51.56	41.25
M2.3	0.4 mm	12 mm	D3	45 mm	2	TP531651003708	43.23	34.60
M2.5	0.35 mm	14 mm	D3	50 mm	2	TP531651003808	55.42	44.35
M2.5	0.45 mm	14 mm	D3	50 mm	2	TP531651003908	40.37	32.30
M2.6	0.45 mm	14 mm	D3	50 mm	2	TP531651004008	38.46	30.95
M3	0.5 mm	18 mm	D3	56 mm	3	TP531651000108	29.58	23.65
M3	0.35 mm	18 mm	D3	56 mm	3	TP531651004108	38.42	30.95
M3.5	0.35 mm	20 mm	D3	56 mm	3	TP531651004208	38.30	30.95
M3.5	0.6 mm	20 mm	D3	56 mm	3	TP531651004308	28.47	22.80
M4	0.5 mm	21 mm	D3	63 mm	3	TP531651000208	24.42	19.55
M4	0.7 mm	21 mm	D4	63 mm	3	TP531651000308	23.26	18.60
M4.5	0.5 mm	25 mm	D3	70 mm	3	TP531651004408	29.39	23.50
M4.5	0.75 mm	25 mm	D4	70 mm	3	TP531651004508	28.26	22.60
M5	0.5 mm	25 mm	D3	70 mm	3	TP531651000408	25.04	19.95
M5	0.8 mm	25 mm	D4	70 mm	3	TP531651000508	23.83	19.05
M5.5	0.5 mm	30 mm	D3	70 mm	3	TP531651004608	32.15	25.75
M6	0.5 mm	30 mm	D3	80 mm	3	TP531651000608	31.74	25.40
M6	0.75 mm	30 mm	D4	80 mm	3	TP531651000708	28.86	23.10
M6	1 mm	30 mm	D5	80 mm	3	TP531651000808	27.48	22.00
M7	0.75 mm	30 mm	D4	80 mm	3	TP531651004708	38.23	30.95
M7	1 mm	30 mm	D5	80 mm	3	TP531651004808	38.84	31.10
M8	1 mm	35 mm	D5	90 mm	3	TP531651000908	34.70	27.75
M8	1.25 mm	35 mm	D5	90 mm	3	TP531651001008	33.05	26.45
M8	0.75 mm	30 mm	D4	90 mm	3	TP531651004908	42.03	33.60
M9	0.75 mm	35 mm	D4	90 mm	3	TP531651005008	62.32	49.85
M9	1 mm	35 mm	D5	90 mm	3	TP531651005108	55.03	44.00
M9	1.25 mm	35 mm	D5	90 mm	3	TP531651005208	49.97	39.95
M10	0.75 mm	35 mm	D4	90 mm	3	TP531651005308	57.93	46.35
M11	1 mm	29 mm	D5	90 mm	3	TP531651005508	58.29	46.65
M11	0.75 mm	29 mm	D4	90 mm	3	TP531651005408	77.89	61.95
M10	1 mm	35 mm	D5	100 mm	3	TP531651001108	47.74	38.20
M10	1.25 mm	39 mm	D5	100 mm	3	TP531651001208	47.74	38.20
M10	1.5 mm	39 mm	D6	100 mm	3	TP531651001308	47.74	38.20
M11	1.5 mm	29 mm	D6	100 mm	3	TP531651005608	52.33	41.85
M12	1 mm	32 mm	D5	100 mm	3	TP531651001408	57.86	46.30
M12	1.25 mm	32 mm	D6	100 mm	3	TP531651001508	57.86	46.30
M12	1.5 mm	32 mm	D6	100 mm	3	TP531651001608	57.86	46.30
M14	1.5 mm	36 mm	D6	100 mm	4	TP531651001808	87.82	69.95
M14	1 mm	36 mm	D5	100 mm	4	TP531651005708	97.12	77.95
M14	1.25 mm	36 mm	D6	100 mm	4	TP531651005808	92.72	73.95
M15	1 mm	36 mm	D5	100 mm	4	TP531651005908	105.84	84.95
M15	1.5 mm	36 mm	D6	100 mm	4	TP531651006008	96.21	76.95
M15	1.25 mm	36 mm	D6	100 mm	4	TP531651007308	105.84	84.95
M16	1.5 mm	36 mm	D6	100 mm	4	TP531651002008	96.97	77.95
M16	1 mm	36 mm	D5	100 mm	4	TP531651006108	106.69	84.95
M16	1.25 mm	36 mm	D6	100 mm	4	TP531651007408	106.69	84.95
M17	1 mm	36 mm	D5	100 mm	4	TP531651006208	139.94	111.95
M17	1.5 mm	36 mm	D6	100 mm	4	TP531651006308	127.21	101.95
M17	1.25 mm	36 mm	D6	100 mm	4	TP531651007508	139.94	111.95
M12	1.75 mm	32 mm	D6	110 mm	3	TP531651001708	57.86	46.30
M14	2 mm	36 mm	D7	110 mm	3	TP531651001908	87.82	69.95
M15	2 mm	36 mm	D7	110 mm	3	TP531651007208	96.21	76.95
M16	2 mm	36 mm	D7	110 mm	3	TP531651002108	96.97	77.95
M18	1.5 mm	43 mm	D6	110 mm	4	TP531651002208	136.85	108.95
M18	1 mm	43 mm	D5	110 mm	4	TP531651006408	161.56	128.95
M18	1.25 mm	43 mm	D6	110 mm	4	TP531651007608	161.56	128.95
M18	2.5 mm	43 mm	D7	125 mm	3	TP531651002308	136.85	108.95
M18	2 mm	43 mm	D7	125 mm	4	TP531651006508	146.85	116.95
M20	1.5 mm	44 mm	D6	125 mm	4	TP531651002408	190.49	151.95
M20	1 mm	44 mm	D5	125 mm	4	TP531651006608	218.64	174.95
M22	1.5 mm	44 mm	D6	125 mm	4	TP531651002608	208.01	165.95
M22	1 mm	44 mm	D5	125 mm	4	TP531651006808	235.95	188.95
M20	2.5 mm	44 mm	D7	140 mm	3	TP531651002508	190.48	151.95
M20	2 mm	44 mm	D7	140 mm	4	TP531651006708	198.75	159.00
M22	2.5 mm	44 mm	D7	140 mm	3	TP531651002708	207.99	165.95
M22	2 mm	44 mm	D7	140 mm	4	TP531651006908	214.50	171.60
M24	1.5 mm	51 mm	D6	140 mm	4	TP531651002808	272.08	217.95
M24	1 mm	51 mm	D5	140 mm	4	TP531651007008	313.40	250.95
M24	2 mm	51 mm	D7	140 mm	4	TP531651007108	284.88	227.90
M24	3 mm	51 mm	D8	16 mm	3	TP531651002908	272.10	217.95

10212

A Brand® - A-LT-SFT Spiral Fluted Taps

VC-10 - Modified Bottom (2.5P - 3P) - Metric Sizes



- List 16520
- V Coating

Thread Diameter Size (TDZ)	Thread Pitch (TP)	Usable Length (LU)	Thread Tolerance Class (TCTR)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE
M3	0.35 mm	18 mm	D3	100 mm	3	TP531652001208	68.41	54.95
M3.5	0.35 mm	18 mm	D3	100 mm	3	TP531652001408	73.34	58.95
M3.5	0.6 mm	20 mm	D3	100 mm	3	TP531652001508	67.48	53.95
M4	0.5 mm	21 mm	D3	100 mm	3	TP531652001608	53.30	42.65
M4	0.7 mm	21 mm	D4	100 mm	3	TP531652001708	51.71	41.40
M4.5	0.5 mm	25 mm	D3	100 mm	3	TP531652001808	57.72	46.20
M4.5	0.7 mm	25 mm	D4	100 mm	3	TP531652001908	54.73	43.80
M5	0.5 mm	25 mm	D3	125 mm	3	TP531652002008	62.40	49.90
M5	0.8 mm	25 mm	D4	125 mm	3	TP531652002108	59.20	47.35
M5.5	0.5 mm	30 mm	D3	125 mm	3	TP531652002208	63.91	50.95
M6	0.5 mm	30 mm	D3	125 mm	3	TP531652002308	64.33	50.95
M6	0.75 mm	30 mm	D4	150 mm	3	TP531652002508	62.68	49.95
M6	1 mm	30 mm	D5	150 mm	3	TP531652002708	61.04	48.85
M8	0.75 mm	35 mm	D4	150 mm	3	TP531652003308	68.35	54.95
M8	1 mm	35 mm	D5	150 mm	3	TP531652003508	66.13	52.95
M8	1.25 mm	35 mm	D5	150 mm	3	TP531652003708	64.99	51.95
M10	0.75 mm	39 mm	D4	150 mm	3	TP531652004508	104.70	83.95
M10	1 mm	39 mm	D5	150 mm	3	TP531652004708	96.67	76.95
M10	1.25 mm	39 mm	D5	150 mm	3	TP531652004908	96.67	76.95
M10	1.5 mm	39 mm	D6	150 mm	3	TP531652005108	96.67	76.95
M12	1 mm	72 mm	D5	180 mm	3	TP531652006108	110.67	88.95
M12	1.25 mm	72 mm	D6	180 mm	3	TP531652006308	107.37	85.95
M12	1.5 mm	72 mm	D6	180 mm	3	TP531652006508	107.37	85.95
M14	1 mm	60 mm	D5	150 mm	3	TP531652006808	154.66	123.95
M14	1.25 mm	60 mm	D6	150 mm	3	TP531652006908	146.56	116.95
M14	1.5 mm	60 mm	D6	150 mm	3	TP531652007008	135.96	108.95
M14	2 mm	60 mm	D7	150 mm	3	TP531652007108	135.96	108.95
M15	1 mm	64 mm	D5	160 mm	3	TP531652007208	176.70	140.95
M15	1.5 mm	64 mm	D6	160 mm	3	TP531652007308	168.28	134.95
M16	1 mm	64 mm	D5	160 mm	3	TP531652007408	169.72	135.95
M16	1.5 mm	64 mm	D6	160 mm	3	TP531652007508	152.23	121.95
M16	2 mm	72 mm	D7	180 mm	3	TP531652007708	152.23	121.95
M18	1 mm	72 mm	D5	180 mm	4	TP531652008008	228.48	182.95
M18	1.5 mm	72 mm	D6	180 mm	4	TP531652008108	222.38	177.90
M18	2 mm	72 mm	D7	180 mm	4	TP531652008208	222.38	177.90
M18	2.5 mm	72 mm	D7	180 mm	4	TP531652008308	222.38	177.90
M20	2 mm	80 mm	D7	200 mm	4	TP531652008608	322.86	257.95
M20	2.5 mm	80 mm	D7	200 mm	4	TP531652008708	322.86	257.95
M20	1 mm	80 mm	D5	200 mm	4	TP531652008408	336.55	268.95
M20	1.5 mm	80 mm	D6	200 mm	4	TP531652008508	322.86	257.95
M22	1 mm	80 mm	D5	200 mm	4	TP531652008808	369.89	295.95
M22	1.5 mm	80 mm	D6	200 mm	4	TP531652008908	355.01	283.95
M22	2 mm	80 mm	D7	200 mm	4	TP531652009008	355.01	283.95
M22	2.5 mm	80 mm	D7	200 mm	4	TP531652009108	355.01	283.95
M24	1 mm	83 mm	D5	200 mm	4	TP531652009208	495.18	395.95
M24	1.5 mm	83 mm	D6	200 mm	4	TP531652009308	447.20	357.95
M24	2 mm	83 mm	D7	200 mm	4	TP531652009408	447.20	357.95
M24	3 mm	83 mm	D8	200 mm	4	TP531652009508	447.20	357.95

29300

SOLID MASTER Solid Carbide Straight Shank Chucking Reamers



List 5661 - Straight Flute

- Right hand cut

Wire Gage			
Cutting Diameter (DC)	Order No.	Regular Price	SALE
#1	MT5854371	50.87	40.95
#2	MT5854357	53.80	42.95
#3	MT5854339	50.86	40.95
#4	MT5854331	50.86	40.95
#5	MT5854324	52.27	41.95
#6	MT5854321	50.86	40.95
#7	MT5854314	52.27	41.95
#8	MT5854310	52.27	41.95
#9	MT5854303	50.86	40.95
#10	MT5854298	52.90	41.95
#11	MT5854293	41.53	32.95
#12	MT5854289	44.40	35.95
#13	MT5854280	43.51	34.95
#14	MT5854274	42.50	34.00
#15	MT5854269	42.47	33.95
#16	MT5854262	42.47	33.95
#17	MT5854254	41.63	33.30
#18	MT5854246	42.58	33.95
#19	MT5854239	42.52	33.95
#20	MT5854229	42.54	33.95
#21	MT5854225	37.37	29.90
#22	MT5854221	37.35	29.95
#23	MT5854213	37.37	29.90
#24	MT5854209	37.35	29.95
#25	MT5854203	37.35	29.95
#26	MT5854198	37.35	29.95
#27	MT5854192	35.96	28.95
#28	MT5854184	35.96	28.95
#29	MT5854174	35.92	28.95
#30	MT5854159	35.70	28.95
#31	MT5854141	36.73	28.95
#32	MT5854132	31.37	25.10
#33	MT5854126	30.51	23.95
#34	MT5854122	30.49	23.95
#35	MT5854120	30.51	23.95
#36	MT5854112	30.49	23.95
#37	MT5854107	30.51	23.95
#38	MT5854102	30.49	23.95
#39	MT5854098	30.51	23.95
#40	MT5854094	30.49	23.95
#41	MT5854090	30.25	24.20
#42	MT5854084	28.02	21.95
#43	MT5854075	28.03	21.95
#44	MT5854069	28.03	21.95
#45	MT5854061	28.02	21.95
#46	MT5854059	25.80	20.95
#47	MT5854053	25.82	20.95
#48	MT5854047	25.82	20.95
#49	MT5854041	25.82	20.95
#50	MT5854035	25.82	20.95
#51	MT5854029	25.80	20.95
#52	MT5854022	25.78	20.95
#53	MT5854014	25.85	20.95
#54	MT5854004	26.90	21.95
#55	MT5853998	26.87	21.50
#56	MT5853986	26.87	21.50
#57	MT5853979	26.87	21.50
#58	MT5853977	26.88	21.50
#59	MT5853975	26.88	21.50
#60	MT5853973	27.14	21.95
#61	MT5853970	26.24	20.95
#62	MT5853968	26.24	20.95
#63	MT5853966	26.25	21.00
#64	MT5853964	26.24	20.95
#65	MT5853962	26.27	20.95
#66	MT5853958	21.73	16.95
#67	MT5853956	21.59	16.95
#68	MT5853953	21.58	16.95
#69	MT5853951	21.58	16.95
#70	MT5853950	21.58	16.95

Metric			
Cutting Diameter (DC)	Order No.	Regular Price	SALE
1 mm	MT5853971	29.76	23.95
1.5 mm	MT5854013	31.05	24.95
2 mm	MT5854054	30.52	23.95
2.5 mm	MT5854095	32.66	25.95
3 mm	MT5854137	34.95	27.95
3.5 mm	MT5854178	37.85	29.95
4 mm	MT5854222	42.29	33.95
4.5 mm	MT5854263	46.20	36.95
5 mm	MT5854305	52.93	41.95
5.5 mm	MT5854346	55.41	43.95
6 mm	MT5854389	58.40	46.95
6.5 mm	MT5854428	64.47	51.95
7 mm	MT5854453	74.73	59.95
7.5 mm	MT5854476	79.00	63.20
8 mm	MT5854501	80.58	63.95
8.5 mm	MT5854522	93.84	74.95
9 mm	MT5854544	103.80	82.95
9.5 mm	MT5854565	93.78	74.95
10 mm	MT5854589	133.59	106.95
10.5 mm	MT5854611	129.51	103.95
11 mm	MT5854632	149.47	119.95
11.5 mm	MT5854656	151.25	120.95

Metric			
Cutting Diameter (DC)	Order No.	Regular Price	SALE
12 mm	MT5854679	161.25	128.95
12.5 mm	MT5854701	181.32	144.95
13 mm	MT5854718	268.11	213.95
14 mm	MT5854719	258.60	206.95
15 mm	MT5854721	258.60	206.95
16 mm	MT5854729	296.74	236.95

Inch			
Cutting Diameter (DC)	Order No.	Regular Price	SALE
1/32"	MT5853954	21.74	16.95
3/64"	MT5853987	25.14	19.95
1/16"	MT5854020	25.95	20.95
5/64"	MT5854052	23.04	17.95
3/32"	MT5854085	24.07	18.95
7/64"	MT5854118	27.23	21.95
1/8"	MT5854152	26.77	20.95
9/64"	MT5854185	34.40	27.95
5/32"	MT5854219	34.46	27.95
11/64"	MT5854251	38.25	30.95
3/16"	MT5854286	41.60	32.95
13/64"	MT5854319	43.14	34.95
7/32"	MT5854352	45.36	35.95
15/64"	MT5854384	46.93	37.95
1/4"	MT5854417	45.75	36.60
17/64"	MT5854442	57.51	45.95
9/32"	MT5854460	61.35	48.95
19/64"	MT5854478	61.43	48.95
5/16"	MT5854497	63.02	49.95
21/64"	MT5854515	77.23	61.95
11/32"	MT5854532	77.96	61.95
23/64"	MT5854550	75.03	59.95
3/8"	MT5854567	75.51	59.95
25/64"	MT5854585	79.52	63.95
13/32"	MT5854603	87.88	69.95
27/64"	MT5854620	97.79	77.95
7/16"	MT5854639	113.83	90.95
29/64"	MT5854658	114.87	91.90
15/32"	MT5854674	143.90	114.95
31/64"	MT5854693	118.72	94.95
1/2"	MT5854710	137.16	109.95
9/16"	MT5854720	284.04	226.95
5/8"	MT5854725	213.28	170.95
3/4"	MT5854733	400.46	319.95

Letter			
Cutting Diameter (DC)	Order No.	Regular Price	SALE
A	MT5854383	48.23	38.95
B	MT5854393	48.23	38.95
C	MT5854401	51.10	40.95
D	MT5854409	51.10	40.95
F	MT5854431	63.21	50.95
G	MT5854436	63.21	50.95
H	MT5854443	60.59	47.95
I	MT5854449	61.14	48.95
J	MT5854455	62.55	49.95
K	MT5854459	62.55	49.95
L	MT5854470	64.76	51.95
M	MT5854475	63.12	49.95
N	MT5854484	64.76	51.95
O	MT5854502	60.61	47.95
P	MT5854509	78.30	62.95
Q	MT5854519	78.58	62.95
R	MT5854527	76.42	60.95
S	MT5854537	77.43	61.95
T	MT5854548	72.32	57.95
U	MT5854559	81.21	64.95
V	MT5854571	92.65	73.95
W	MT5854580	102.64	81.95
X	MT5854593	111.20	88.95
Y	MT5854600	108.33	86.95
Z	MT5854610	107.70	85.95

29204

EMUGE FRANKEN Solid Carbide NC Spot Drills



- Premium sub-micrograin carbide
- Bright finished surface
- 90 / 142 double angle point reduces drill tip breakage issues
- Drill point chisel edge is reduced with web thinned 142 entry point grind
- Double angle reduces axial drilling pressure and creates efficient chip formation
- Chamfer angles of 90
- HA - cylindrical shank
- Suitable for a wide range of materials

					Bright, 90 Degrees			Bright, 120 Degrees			AlTiN, 142 Degrees		
Drill Bit Size / Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Decimal Equivalent	Flute Count (NOF)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	0.125"	2	2"	ER45E-FU31000317	23.66	20.95	ER45E-FU32000317	23.66	20.95	ER45FUT33000317	26.03	22.95
1/4"	1/4"	0.25"	2	2-1/2"	ER45E-FU31000635	46.69	41.95	ER45E-FU32000635	46.69	41.95	ER-45FUT33000635	51.36	45.95
3/8"	3/8"	0.375"	2	3"	ER45E-FU31000952	77.27	69.95	ER45E-FU32000952	77.27	69.95	ER-45FUT33000952	85.00	76.95
1/2"	1/2"	0.5"	2	3"	ER45E-FU31001270	133.36	119.95	ER-45FUT32001270	133.36	119.95	ER45FUT33001270	146.71	131.95
5/8"	5/8"	0.625"	2	4"	ER45E-FU31001587	157.75	141.95	ER-45FUT32001587	157.75	141.95	ER45FUT33001587	173.52	155.95
3/4"	3/4"	0.75"	2	4"	ER45E-FU31001905	281.69	253.95	ER-45FUT32001905	281.69	253.95	ER45FUT33001905	309.87	278.95

28891

PROCUT Jobber Drills



High Speed Steel ▪ 118º Standard Point ▪ Surface Treated

- General purpose drills suitable for most applications
- Ground from solid
- Surface treated - provides high resistance to abrasion and helps reduce the tendency of soft materials to load on the drill
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions

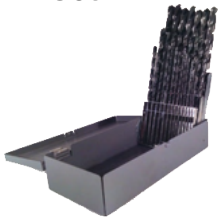
Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Flute Length	Overall Length (OAL)	Order No.	Regular Price	SALE
1/64″	0.0156″	3/16″	3/4″	**AC40001B**	1.39	**0.97**
1/32″	0.0313″	1/2″	1-3/8″	**AC40002B**	0.89	**0.62**
3/64″	0.0469″	3/4″	1-3/4″	**AC40003B**	0.89	**0.62**
1/16″	0.0625″	7/8″	1-7/8″	**AC40004B**	0.89	**0.62**
5/64″	0.0781″	1″	2″	**AC40005B**	0.97	**0.68**
3/32″	0.0938″	1-1/4″	2-1/4″	**AC40006B**	0.97	**0.68**
7/64″	0.1094″	1-1/2″	2-5/8″	**AC40007B**	0.97	**0.68**
1/8″	0.125″	1-5/8″	2-3/4″	**AC40008B**	0.97	**0.68**
9/64″	0.1406″	1-3/4″	2-7/8″	**AC40009B**	1.67	**1.15**
5/32″	0.1563″	2″	3-1/8″	**AC40010B**	1.03	**0.72**
11/64″	0.1719″	2-1/8″	3-1/4″	**AC40011B**	1.10	**0.77**
3/16″	0.1875″	2-5/16″	3-1/2″	**AC40012B**	1.24	**0.87**
13/64″	0.2031″	2-7/16″	3-5/8″	**AC40013B**	1.39	**0.97**
7/32″	0.2188″	2-1/2″	3-3/4″	**AC40014B**	1.58	**1.10**
15/64″	0.2344″	2-5/8″	3-7/8″	**AC40015B**	1.58	**1.10**
| 1/4″ | E |	0.25″	2-3/4″	4″	**AC40016B**	1.80	**1.25**
17/64″	0.2656″	2-7/8″	4-1/8″	**AC40017B**	2.16	**1.50**
9/32″	0.2813″	2-15/16″	4-1/4″	**AC40018B**	2.28	**1.60**
19/64″	0.2969″	3-1/16″	4-3/8″	**AC40019B**	2.63	**1.85**
5/16″	0.3125″	3-3/16″	4-1/2″	**AC40020B**	2.90	**2.05**
21/64″	0.3281″	3-5/16″	4-5/8″	**AC40021B**	3.11	**2.20**
11/32″	0.3438″	3-7/16″	4-3/4″	**AC40022B**	3.59	**2.50**
23/64″	0.3594″	3-1/2″	4-7/8″	**AC40023B**	3.94	**2.75**
3/8″	0.375″	3-5/8″	5″	**AC40024B**	4.08	**2.85**
25/64″	0.3906″	3-3/4″	5-1/8″	**AC40025B**	4.69	**3.30**
13/32″	0.4063″	3-7/8″	5-1/4″	**AC40026B**	4.76	**3.30**
27/64″	0.4219″	3-15/16″	5-3/8″	**AC40027B**	5.24	**3.65**
7/16″	0.4375″	4-1/16″	5-1/2″	**AC40028B**	5.46	**3.80**
29/64″	0.4531″	4-3/16″	5-5/8″	**AC40029B**	6.14	**4.30**
15/32″	0.4688″	4-5/16″	5-3/4″	**AC40030B**	6.50	**4.55**
31/64″	0.4844″	4-3/8″	5-7/8″	**AC40031B**	7.94	**5.55**
1/2″	0.5″	4-1/2″	6″	**AC40032B**	8.30	**5.80**
17/32″	0.5313″	4-13/16″	6-5/8″	**AC40034B**	13.69	**9.60**
9/16″	0.5625″	4-13/16″	6-5/8″	**AC40036B**	15.08	**10.95**
19/32″	0.5938″	5-3/16″	7-1/8″	**AC40038B**	15.49	**10.95**
5/8″	0.625″	5-3/16″	7-1/8″	**AC40040B**	17.69	**12.60**
21/32″	0.6563″	5-3/16″	7-1/8″	**AC40042B**	17.90	**12.55**
11/16″	0.6875″	5-5/8″	7-5/8″	**AC40044B**	20.46	**14.30**

24478

PROCUT 29 Pc. Taper Length Drill Set

Straight Shank ▪ 1/16″-1/2″ by 64ths

- High speed steel
- 118º Point
- Bright finish
- For applications requiring longer than jobber length



Order No.	Regular Price	SALE
AP50104E	197.10	**137.95**

24453

Twister® Micro XD Drills



5xD ▪ Solid Carbide

- Designed for high performance drilling in a broad range of materials
- Web thinned point helps reduce cutting forces during the drilling operation
- 0.8mm and above have honed cutting edges on the point which increases the strength of the cutting edges
- Post coat polishing to improve chip evacuation
- Altima® coated
- M A Ford List #MXDSR

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
0.55 mm	-	3 mm	4 mm	57 mm	**AX2804696**	35.15	**31.95**
0.5 mm	-	3 mm	4 mm	57 mm	**AX2804694**	35.15	**31.95**
0.65 mm	-	3 mm	5 mm	57 mm	**AX2804700**	35.15	**31.95**
0.6 mm	-	3 mm	5 mm	57 mm	**AX2804698**	35.15	**31.95**
0.75 mm	-	3 mm	6 mm	57 mm	**AX2804704**	35.15	**31.95**
0.7 mm	-	3 mm	5 mm	57 mm	**AX2804702**	35.15	**31.95**
0.85 mm	-	3 mm	7 mm	57 mm	**AX2804708**	35.15	**31.95**
0.8 mm	-	3 mm	6 mm	57 mm	**AX2804706**	35.15	**31.95**
0.95 mm	-	3 mm	7 mm	57 mm	**AX2804712**	35.15	**31.95**
0.9 mm	-	3 mm	7 mm	57 mm	**AX2804710**	35.15	**31.95**
1 mm	-	3 mm	8 mm	57 mm	**AX2804714**	35.15	**31.95**
1.05 mm	-	3 mm	8 mm	57 mm	**AX2804716**	35.15	**31.95**
1.15 mm	-	3 mm	9 mm	57 mm	**AX2804720**	35.15	**31.95**
1.1 mm	-	3 mm	8 mm	57 mm	**AX2804718**	35.15	**31.95**
1.25 mm	-	3 mm	9 mm	57 mm	**AX2804724**	35.15	**31.95**
1.2 mm	-	3 mm	9 mm	57 mm	**AX2804722**	35.15	**31.95**
1.35 mm	-	3 mm	10 mm	57 mm	**AX2804728**	35.15	**31.95**
1.3 mm	-	3 mm	10 mm	57 mm	**AX2804726**	35.15	**31.95**
1.45 mm	-	3 mm	11 mm	57 mm	**AX2804732**	35.15	**31.95**
1.4 mm	-	3 mm	10 mm	57 mm	**AX2804730**	35.15	**31.95**
1.55 mm	-	3 mm	12 mm	57 mm	**AX2804736**	42.84	**38.95**
1.5 mm	-	3 mm	11 mm	57 mm	**AX2804734**	35.15	**31.95**
1.65 mm	-	3 mm	12 mm	57 mm	**AX2804740**	42.84	**38.95**
1.6 mm	-	3 mm	12 mm	57 mm	**AX2804738**	42.84	**38.95**
1.75 mm	-	3 mm	13 mm	57 mm	**AX2804744**	42.84	**38.95**
1.7 mm	-	3 mm	13 mm	57 mm	**AX2804742**	42.84	**38.95**
1.8 mm	-	3 mm	13 mm	57 mm	**AX2804746**	42.84	**38.95**
1.85 mm	-	3 mm	14 mm	57 mm	**AX2804748**	42.84	**38.95**
1.9 mm	-	3 mm	14 mm	57 mm	**AX2804750**	42.84	**38.95**
1.95 mm	-	3 mm	14 mm	57 mm	**AX2804752**	42.84	**38.95**
2 mm	-	3 mm	15 mm	57 mm	**AX2804754**	42.84	**38.95**
2.05 mm	-	3 mm	15 mm	57 mm	**AX2804756**	42.84	**38.95**
2.1 mm	-	3 mm	15 mm	57 mm	**AX2804758**	42.84	**38.95**
2.15 mm	-	3 mm	16 mm	57 mm	**AX2804760**	42.84	**38.95**
2.2 mm	-	3 mm	16 mm	57 mm	**AX2804762**	42.84	**38.95**
2.25 mm	-	3 mm	17 mm	57 mm	**AX2804764**	42.84	**38.95**
2.3 mm	-	3 mm	17 mm	57 mm	**AX2804766**	42.84	**38.95**
2.35 mm	-	3 mm	17 mm	57 mm	**AX2804768**	42.84	**38.95**
2.4 mm	-	3 mm	18 mm	57 mm	**AX2804770**	42.84	**38.95**
2.45 mm	-	3 mm	18 mm	57 mm	**AX2804772**	42.84	**38.95**
2.5 mm	-	3 mm	18 mm	57 mm	**AX2804774**	42.84	**38.95**
2.55 mm	-	3 mm	19 mm	57 mm	**AX2804776**	47.13	**41.95**
2.6 mm	-	3 mm	19 mm	57 mm	**AX2804778**	47.13	**41.95**
2.65 mm	-	3 mm	19 mm	57 mm	**AX2804780**	47.13	**41.95**
2.7 mm	-	3 mm	20 mm	57 mm	**AX2804782**	47.13	**41.95**
2.75 mm	-	3 mm	20 mm	57 mm	**AX2804784**	47.13	**41.95**
2.8 mm	-	3 mm	20 mm	57 mm	**AX2804786**	47.13	**41.95**
2.85 mm	-	3 mm	21 mm	57 mm	**AX2804788**	47.13	**41.95**
2.9 mm	-	3 mm	21 mm	57 mm	**AX2804790**	47.13	**41.95**
2.95 mm	-	3 mm	21 mm	57 mm	**AX2804792**	47.13	**41.95**

9949

Heavy Duty Cobalt Screw Machine Drills



Cobalt ▪ 135º Split Point

- Effective in high alloys and work hardening materials
- Precision Twist List #M40CO

Drill Bit Size / Cutting Diameter (DC)	Cutting Depth	Overall Length (OAL)	Order No.	Regular Price	SALE
1/16″	5/8″	1-5/8″	**PT1840304**	4.62	**3.45**
5/64″	11/16″	1-11/16″	**PT1840305**	4.65	**3.50**
3/32″	3/4″	1-3/4″	**PT1840306**	4.62	**3.45**
7/64″	13/16″	1-13/16″	**PT1840307**	5.25	**3.95**
1/8″	7/8″	1-7/8″	**PT1840308**	6.02	**4.50**
9/64″	15/16″	1-15/16″	**PT1840309**	6.09	**4.60**
5/32″	1″	2-1/16″	**PT1840310**	6.60	**4.95**
11/64″	1-1/16″	2-1/8″	**PT1840311**	7.49	**5.65**
13/64″	1-3/16″	2-1/4″	**PT1840313**	10.01	**7.50**
15/64″	1-5/16″	2-7/16″	**PT1840315**	12.26	**9.20**
1/4″ - E	1-3/8″	2-1/2″	**PT1840316**	12.26	**9.20**
17/64″	1-7/16″	2-5/8″	**PT1840317**	14.42	**10.95**
5/16″	1-5/8″	2-13/16″	**PT1840320**	19.00	**14.25**
3/8″	1-13/16″	3-1/8″	**PT1840324**	26.27	**19.70**
13/32″	1-15/16″	3-5/16″	**PT1840326**	31.00	**23.25**
1/2″	2-1/4″	3-3/4″	**PT1840332**	42.13	**31.60**

24345

LOCTITE 243 Blue Threadlocker

Oil Resistant/Medium Strength



- Loctite 243 is a step up from 242
- 243 is designed for oils and higher heat environment, such as engines and for high torque bolts
- 243 has higher strength like the 'red' however is not permanent, and application can be removed with correct tools

Container Size	Color	Adhesion Strength	Order No.	Regular Price	SALE
10 ml	Blue	Medium Primerless	**LM501329837**	22.25	**19.95**
50 ml	Blue	Medium Primerless	**LM501329467**	61.89	**55.65**
250 ml	Blue	Medium Primerless	**LM501329505**	215.06	**193.50**

23725

LOCTITE 495™ Super Bonder® Instant Adhesive



- Strong bonds to metal, rubber, and plastic parts
- Can bond parts with caps to .004"
- Works in seconds
- HAZ57

Container Size	Container Type	Order No.	Regular Price	SALE
.11 oz	Tube	**LM5049504**	6.54	**5.85**
1.00 oz	Bottle	**LM5049550**	32.13	**28.90**

8436

LOCTITE 680 New Formula Retaining Compound



- High strength, high viscosity room temperature curing adhesive used to join fitted cylindrical parts
- Fixtures in 10 minutes and provides a shear strength of 4000 PSI

Container Size	Order No.	Regular Price	SALE
10 ml	**LM501835205**	26.10	**23.45**
50 ml	**LM501835201**	69.83	**62.80**
250 ml	**LM501835196**	243.37	**218.95**

23728

LPS 3® Premium Rust Inhibitor

- Stops rust and corrosion
- Provides non-sling lubrication
- Provides anti-seize coating
- Safe to use on rubber, fabric, plastics and paints
- Inverta spray valve lets you spray in an upright or inverted position
- NSF® H2 registered #129027: (aerosol); #059849 (bulk)



LJ6000316



LJ6003128

Container Size	Order No.	Regular Price	SALE
16 oz	**LJ6000316**	22.65	**19.95**
1 gallon	**LJ6003128**	113.26	**101.95**

23659

DYKEM Cross-Check™



- Provides for identifying vibrating, loose or tampered with fasteners
- Highly visible- broken marks easily shown
- Size: 1 oz. Tube

Color	Order No.	Regular Price	SALE
Orange	**LL6083314**	7.99	**6.95**
Green	**LL6083315**	7.99	**6.95**
Red	**LL6083316**	7.99	**6.95**
Yellow	**LL6083317**	7.99	**6.95**
Blue	**LL6083318**	7.99	**6.95**

8281

DYKEM Layout Fluid (Steel Blue)



- Machine shop operators depend on DYKEM layout fluids to scribe sharp clear precise lines
- Toluene free formula for workers' safety
- Provides a uniform, deep color that prevents glare
- Dries in minutes, reduces eyestrain
- Provides an extremely thin coating which adds practically no thickness to the workpiece
- Remains flexible without cracking or chipping

Container Size	Container Type	Order No.	Regular Price	SALE
2 oz	Felt Tip Applicator	**LL6080200**	10.25	**8.95**
4 oz	Brush in Cap Bottle	**LL6080300**	12.27	**10.95**
8 oz	Brush in Cap Bottle	**LL6080400**	16.96	**14.95**
12 oz	Aerosol Can	**LL6080000**	19.11	**16.95**
31 oz	Jug with Handle	**LL6080600**	30.33	**26.95**

23342

LPS Tapmatic® #1 Gold

- Great for steel and aluminum
- Excellent for low speed, high pressure applications
- Minimizes torque increases
- Does not contain chlorinated paraffins, water, solvents or inactive fillers
- Safe on all metals
- Additional handling charges may apply



LJ6040320



LJ6040330



LJ6040312

Container Size	Order No.	Regular Price	SALE
11 oz	**LJ6040312**	20.28	**17.95**
1 pint	**LJ6040320**	17.88	**15.95**
1 gallon	**LJ6040330**	103.27	**92.95**
5 gallon	**LJ6040340**	416.69	**374.95**

8380

LPS 2® Industrial Strength Lubricant

- A nondrying, light, oily film
- Reduces wear
- Displaces moisture
- Loosens rusted or frozen parts
- Up to one year of protection
- Safe on paint and most plastics
- Spray at any angle
- NSF® H2 registered



LJ6002128



LJ6000216

Container Size	Order No.	Regular Price	SALE
11 oz	**LJ6000216**	17.49	**15.75**
1 gallon	**LJ6002128**	72.90	**65.95**

8363

Mobil Mobilgrease Lubricating Grease XHP 222

NLGI Grade - 2, Thickener Type Li-Complex



Mobilgrease Lubricating Grease XHP 222 Grease is an extedend service Lithium complex grease intended for a wide variety of applications and severe operating conditions.

- Superb resistance to water washout and spray-off
- Highly adhesive and cohesive structure
- Excellent rust and corrosion resistance
- Extended grease life and enhanced bearing protection in high temperature applications
- Very good anti-wear

Container Size	Order No.	Regular Price	SALE
13.7 oz	**LK45121929**	7.42	**5.95**
35 lb	**LK45XHP22235**	297.88	**238.30**

23197

Original Gorilla Glue



- 100% Waterproof: Doesn't break down when exposed to outdoor elements
- Versatile: Easily bonds wood, stone, metal, ceramic, foam, glass, concrete and much more!
- Incredibly Strong: Expands 3 times into the materials to form an incredibly strong bond
- Temperature Resistant: Bond holds through hot and cold temperatures
- Clamp Time: 1-2 hours

Container Size	Container Type	Order No.	Regular Price	SALE
2 oz	bottle	**GR3200201**	6.17	**4.95**
4 oz	bottle	**GR3200408**	13.18	**10.95**
8 oz	bottle	**GR3200506**	22.04	**18.95**
12 oz	Tube	**GR3200502**	6.17	**4.95**
18 oz	bottle	**GR3250018**	23.68	**19.95**
36 oz	bottle	**GR3203601**	36.04	**30.95**

29423

JET-LUBE KOPR KOTE® Copper Anti-Seize



- Contains both copper and graphite
- Metalizes under pressure
- Good to 1800ºF
- High film strength
- Lead free
- Color: bronze
- Exceeds MIL-1-907E

Container Size	Application	Order No.	Regular Price	SALE
1/2 lb	Brush Top	**LM6510002**	22.39	**19.70**
12 oz	Aerosol	**LM6510041**	27.13	**23.90**
1 lb	Brush Top	**LM6510004**	33.90	**29.90**

8331

Kool Mist PORTaMIST Units Without Tanks



- Portable, quick set-up magnetic unit with 12" Loc-Line® nozzle positioner
- Unit equipped with nylon reinforced air line and 4' long siphoning line

Size	Order No.	Regular Price	SALE
12"	**NZ5060M**	159.65	**143.95**
18"	**NZ5060M18**	190.55	**170.95**

8353

Krylon Industrial Tough Coat® Acrylic Enamel



- Tough, protective coating resists chipping and peeling
- Smooth, even coverage
- Fast-drying, dries to the touch in 15 minutes
- Ideal for light-to heavy-duty painting projects, both indoors and outdoors

Color	Container Size	Order No.	Price	SALE
Aluminum	16 oz	**LP4001760**	11.76	**8.85**
OSHA White	16 oz	**LP4001800**	11.76	**8.85**

28917

Templ Non-Contact Infrared Measurement Device

Model IRT-16



- Engineered to provide instant, superior accuracy and consistency in surface temperature measurement for a wide range of applications
- Lightweight and compact design
- Laser pointer with 16:1 distance to spot ratio
- 4 Digit blacklit dual display
- ºC or ºF selectable readout
- Min/Max/Ave and differential temperature mode available
- Built-in jack for K-type thermocouple probe to allow direct contact measurement

Type	Temperature Range - Infrared	Order No.	Price	SALE
IRT-16 Infrared Thermometer	-76°F(-60°C) to 1157°F(625°C)	**LH5224200**	301.68	**240.95**

3996

Templ Templstik® Temperature Indicating Sticks



- Stick instantly melts at desired temperature for easy and immediate inspection
- Calibration free with 100% reliability at +/- 1% of desired temperature
- Easy to use aluminum holder, imprinted part number and temperature on each stick

Temperature Range	Order No.	Regular Price	SALE
Up to 150° F	**LH5228006**	17.41	**13.95**
200° F	**LH5228012**	17.41	**13.95**
250° F	**LH5228019**	17.41	**13.95**
300° F	**LH5228026**	17.41	**13.95**
300° F	**LH5228031**	18.84	**14.95**
400° F	**LH5228035**	18.84	**14.95**
450° F	**LH5228039**	18.84	**14.95**
500° F	**LH5228043**	18.47	**14.95**
550° F	**LH5228045**	18.47	**14.95**
600° F	**LH5228047**	18.47	**14.95**

4058

Master Fluid Solutions TRIM® MicroSol® 690XT

High Lubricity Low Foam Premium Semi-Synthetic



- Extends useful life without the need for tank-side biocides or fungicides
- Low foaming ideal for high-pressure, high-volume applications
- No nitrites, triazines, phenols, chlorinated, sulfurized EP additives; boron, halogen free
- Compatible with titanium, high nickel alloys, steels, copper, and aluminum alloys
- Excellent alternative to chlorinated soluble oils on high-silica aluminum alloys
- Provides superior corrosion inhibition on all ferrous and nonferrous metals
- Keeps machines very clean for reduced maintenance
- Requires no special disposal or recycling techniques

Container Size	Order No.	Regular Price	SALE
1 gallon	**MS656360**	56.25	**50.95**
5 gallon	**MS656365**	260.02	**233.95**
54 gallon	**MS656370**	2164.74	**1947.95**

All 54 Gallon Drums FOB Factory

8488

PRM PRO Spotting Blue-H20



- Perfect for die spotting and layout applications
- Water soluble non-drying
- Washes off for no mess
- Can be applied with ease using brush, rollers, sprayers, etc.
- Safe, non-marring and will not deface metal surfaces
- Non-toxic
- **Alternative to Canone Blue**

Container Size	Order No.	Regular Price	SALE
16 oz	**PR0310020**	46.48	**37.20**
1 quart	**PR0310030**	89.10	**70.95**
1 gallon	**PR0310040**	325.10	**259.95**

while supplies last

24323

NORTON BLAZE Belts for Portable Sanders



Blaze Belts
- Lasts 50% to 200% longer on mild and carbon steel, stainless, cobalt, chrome, inconel, and titanium
- Cuts cooler and 30% faster than current generation belts
- Lowers total grinding cost

New Improved Y-Weight Polyester Cloth Back
- Better grain adhesion - edge fray resistance
- More consistent grind throughout extended belt life

Width	Length	Grit	Standard Pack	Order No.	Regular Price	SALE
1/2"	12"	40	200	MH61B0098018	3.68	3.10
1/2"	12"	60	200	MH61B0098019	3.53	3.00
1/2"	12"	80	200	MH61B0098020	3.39	2.90
1/2"	18"	40	200	MH61B0098021	3.92	3.50
1/2"	18"	60	200	MH61B0098022	3.73	3.35
1/2"	18"	80	200	MH61B0098023	3.58	3.05
1/2"	24"	40	200	MH61B0098024	4.32	3.65
1/2"	24"	60	200	MH61B0098025	4.02	3.60
1/2"	24"	80	200	MH61B0098026	3.73	3.35
3/4"	18"	40	200	MH61B0098027	4.39	3.75
3/4"	18"	60	200	MH61B0098028	4.10	3.50
3/4"	18"	80	200	MH61B0098029	3.85	3.30
3/4"	20-1/2"	40	200	MH61B0098030	4.49	3.85
3/4"	20-1/2"	60	200	MH61B0098031	4.32	3.70
3/4"	20 1/2"	80	200	MH61B0098032	4.05	3.45

10727

SUPERIOR ABRASIVES Quick Change Disc Holders

- Roll-On (TR) features nylon screw type thread
- Turn-On (TS) features metal to metal quick change system



Diameter	Order No.	Regular Price	SALE
3"	MM5964113	17.92	14.34
2"	MM5964198	14.18	11.34
2"	MM5964922	14.04	11.23
3"	MM5964949	17.78	14.22

25121

SURF PRO Air Cooled Quick Change Holder Pads

- Serated pad air cools disc for reduced loading and longer disc life
- Multiple mounting option available
- 1/4-20 Thread x 1/4" Dia. Mandrel, 2" OAL
- 3/8-24 and 5/8-11 adaptor also available



Diameter	Disc Mount	Order No.	Regular Price	SALE
1 1/2"	TR	SP24QCH15TR14SC	12.54	10.95
1 1/2"	TS	SP24QCH15TS14SC	12.54	10.95
2"	TR	SP24QCH20TR14SC	13.05	11.10
2"	TS	SP24QCH20TS14SC	13.05	11.10
3"	TR	SP24QCH30TR14SC	14.76	12.55
3"	TS	SP24QCH30TS14SC	14.76	12.55
4"	TR	SP24QCH40TR14SC	23.87	19.95
4"	TS	SP24QCH40TS14SC	23.87	19.95

25166

VSM Ceramic Resin Fibre Discs-XF870



VSM XF870 ceramic material has an extremely high stock removal rate thanks to constant recreation of sharp grain points. Cool grinding and extension of service lives with VSM TOP SIZE additional grinding-active layer. High wear resistance. Form-resistant vulcanized fibre backing.

- Ceramic grain abrasive with a medium coat and self-sharpening effect for medium contact pressures
- impressive results on stainless steels or superalloys with aggressive cut and a very long lifetime
- additional TOP SIZE layer improves stock removal while reducing the temperature in the grinding zone.
- For Use on Unalloyed Steels, Stainless Steels, Super Alloys, Non-Ferrous and Aluminum
- Best for use on carbon steel, stainless steel, cast iron, and ductile iron.

Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4-1/2"	7/8"	24	VS10149133	4.35	3.70
4-1/2"	7/8"	36	VS10149134	4.23	3.60
4-1/2"	7/8"	50	VS10149135	3.82	3.25
4-1/2"	7/8"	60	VS10149136	3.66	3.10
4-1/2"	7/8"	100	VS10149131	3.11	2.65
4-1/2"	7/8"	120	VS10149132	5.06	4.30
7"	7/8"	24	VS10149148	5.92	5.05
7"	7/8"	36	VS10149149	5.75	4.90
7"	7/8"	50	VS10149151	5.38	4.60
7"	7/8"	60	VS10149152	5.13	4.35
7"	7/8"	100	VS10149146	4.85	4.10
7"	7/8"	120	VS10149147	4.85	4.10

30834

3M Utility Cloth Rolls



- Aluminum oxide - X and J wt. cloth
- Constructed on a durable cloth backing
- Ideal for all utility jobs
- Can be torn into strips and rolled without shelling

Width	Length	Backing Weight	Grit	Standard Pack	Order No.	Regular Price	SALE
1"	50 yard	X	50	5	TM1219794	53.93	45.95
1"	50 yard	X	60	5	TM1219793	50.39	44.95
1 1/2"	50 yard	X	50	5	TM1219813	75.23	67.95
1 1/2"	50 yard	J	280	5	TM1219804	57.47	51.95
1 1/2"	50 yard	J	400	5	TM1219802	57.47	51.95
2"	50 yard	X	50	5	TM1219825	97.22	86.95
2"	50 yard	X	60	5	TM1219824	91.56	81.95
2"	50 yard	J	280	5	TM1219816	73.09	65.95
2"	50 yard	J	320	5	TM1219815	73.09	65.95
2"	50 yard	J	400	5	TM1219814	73.09	65.95

150

3M Utility Cloth Shop Rolls

314D

- Aluminum Oxide - J wt. cloth
- Constructed on a durable cloth backing
- Ideal for all utility jobs
- Can be torn into strips and rolled without shelling
- Standard qty. pk - 5



		1"			1 1/2"			2"		
Grit	Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
80	50 yard	TM1219792	42.57	37.95	TM1219811	59.62	53.95	TM1219823	76.65	68.95
100	50 yard	-	-	-	-	-	-	TM1219822	73.09	65.95
120	50 yard	TM1219790	41.16	36.95	TM1219809	57.47	51.95	TM1219821	73.09	65.95
150	50 yard	TM1219789	41.16	36.95	TM1219808	57.47	51.95	TM1219820	73.09	65.95
180	50 yard	TM1219788	41.16	36.95	TM1219807	57.47	51.95	TM1219819	73.09	65.95
220	50 yard	TM1219787	41.16	36.95	TM1219806	57.47	51.95	TM1219818	73.09	65.95
240	50 yard	TM1219786	41.16	36.95	TM1219805	57.47	51.95	TM1219817	73.09	65.95
280	50 yard	TM1219785	41.16	36.95	-	-	-	-	-	-
400	50 yard	TM1219783	41.16	36.95	-	-	-	-	-	-

22615

SURF PRO Aluminum Oxide Shop Rolls

- Ideal for cleaning and deburring metal surfaces
- Convenient packaging
- Flexible cloth backing
- Cut or tear to required length
- 50 Yard rolls

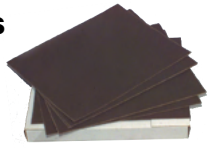


	1"			1 1/2"			2"		
Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
-	-	-	-	-	-	-	SP12SR20CRO	63.60	54.05
40	SP12SR10040A	18.63	15.85	SP12SR15040A	24.22	20.95	SP12SR20040A	34.92	29.70
50	SP12SR10050A	18.25	15.50	SP12SR15050A	23.71	19.95	SP12SR20050A	34.24	29.10
60	SP12SR10060A	17.67	15.05	SP12SR15060A	25.36	21.60	SP12SR20060A	33.22	28.25
80	SP12SR10080A	16.83	13.95	SP12SR15080A	24.16	20.95	SP12SR20080A	31.66	26.91
100	SP12SR10100A	16.37	13.90	SP12SR15100A	23.70	19.95	SP12SR20100A	30.68	26.08
120	SP12SR10120A	16.37	13.90	SP12SR15120A	23.70	19.95	SP12SR20120A	30.68	26.08
150	SP12SR10150A	16.40	13.90	SP12SR15150A	23.69	19.95	SP12SR20150A	30.68	26.08
180	SP12SR10180A	16.37	13.90	SP12SR15180A	23.69	19.95	SP12SR20180A	30.68	26.08
220	SP12SR10220A	16.40	13.95	SP12SR15220A	23.69	19.95	SP12SR20220A	30.68	26.08
240	SP12SR10240A	16.40	13.95	SP12SR15240A	23.69	19.95	SP12SR20240A	30.68	26.08
320	SP12SR10320A	16.40	13.95	SP12SR15320A	23.69	19.95	SP12SR20320A	30.68	26.08
400	SP12SR10400A	16.40	13.95	SP12SR15400A	23.66	19.95	SP12SR20400A	30.68	26.08

25149

SURF PRO 9" x 11" Wet or Dry Silicon Carbide Finishing Paper Sheets

- 60 Grit thru 180 grit C-weight
- 220 Grit and finer A-weight

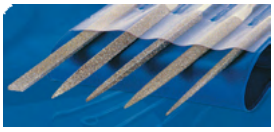


Grit	Order No.	Regular Price	SALE
60	SP12S911060S	0.80	0.68
80	SP12S911080S	0.76	0.57
120	SP12S911120S	0.74	0.63
150	SP12S911150S	0.60	0.51
180	SP12S911180S	0.55	0.47
220	SP12S911220S	0.55	0.47
240	SP12S911240S	0.48	0.41
280	SP12S911280S	0.55	0.47
320	SP12S911320S	0.52	0.44
360	SP12S911360S	0.52	0.44
400	SP12S911400S	0.52	0.44
500	SP12S911500S	0.52	0.44
600	SP12S911600S	0.52	0.44
1000	SP12S9111000S	0.55	0.47

10739

STRAUSS & CO. 5 Pc. NF File Sets

- Set includes the following five files: Equalling, 1/2 Round, 3-Square, Square and Round



Grade	Order No.	Regular Price	SALE
Coarse	MN51C4205	112.20	84.15
Fine	MN51F4205	98.70	73.95
Medium	MN51M4205	112.20	84.15

613

CRATEX 84 Pc. Rubberized Abrasive Kit

Contents Includes:

- (8) Tapered edge wheels No. 2
- (8) Straight wheels No. 44
- (16) Straight wheels No. 74
- (8) Straight wheels No. 86
- (16) Cylinder points No. 6
- (16) Bullet points No. 8
- (8) Bullet points No. 10
- (2) Wheel mandrels No. 3
- (2) Point mandrels No. 4
- Equally assorted in the four Cratex grit textures - C (Coarse), M (Medium), F (Fine), XF (Extra Fine)



Order No.	Regular Price	SALE
MG64777	158.66	142.95

23009

SURF PRO 25 Pc. Rubber Sanding Drum Set

Contains 1 Each:

- 1/2 x 1/2, 3/4 x 1, 1 x 1, 1-1/2 x 1-1/2, 2 x 2-1/2 Rubber mandrels
- 20 Bands - 10 coarse grit & 10 fine grit
- Fitted plastic case



Order No.	Regular Price	SALE
MM54SDK25	29.23	21.95

689

Flat Head Wheel Arbors

- Left hand threaded arbor
- "Flat Head" style allows mounting between a single washer and the flat-head
- For mounting wire wheel brushes & other abrasive finishing products
- Rust proof finish



Arbor Hole	Max. Wheel Width	Shank Diameter	Overall Length	Order No.	Regular Price	SALE
1/2"	1/2"	1/4"	2 5/16"	MM54FHL30	8.58	6.95
1/2"	3/8"	1/4"	1 7/8"	MM54FHL25X	5.22	3.95
1/2"	7/8"	1/4"	2 5/16"	MM54FHL30X	5.56	3.95
1/4"	3/4"	3/16"	1 3/4"	MM54FHL8X	9.03	6.95
3/8"	3/8"	1/4"	1 5/8"	MM54FHL10X	4.91	3.95
5/8"	3/8"	1/4"	1 7/8"	MM54FHL50X	10.37	7.95

364

CGW Felt / Cotton Buffing Flap Discs - Type 27



- Flexible felt/wool disc easily works with contoured surfaces for consistent polishing action
- Fast mirror finishes
- Use on stainelss steel, aluminun, sheet metal mild steel and brass
- CGW White (1200 Grit) Compound for aluminum, steel, and stainless steel
- **MUST USE WITH BUFFING COMPOUND**

Diameter	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	7/8"	13,300	**MG9049698**	21.75	**19.60**
5"	7/8"	12,200	**MG9049699**	25.22	**22.70**

216

WEILER 4-1/2" Zirconia Alumina Wolverine Flap Discs



- Ideal for a working angle of 15° - 25°
- Phenolic Backings
- High cut rate

		Arbor Hole - 7/8"			Arbor Hole - 5/8"-11		
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	13,000	**MK5131343**	4.90	**4.17**	-	-	-
40	13,000	**MK5131387**	6.97	**5.92**	**MK5131390**	8.40	**7.14**
60	13,000	**MK5131345**	4.90	**4.17**	**MK5131409**	6.22	**5.29**
60	13,000	**MK5131388**	6.97	**5.92**	**MK5131410**	6.22	**5.29**
80	13,000	**MK5131389**	6.97	**5.92**	-	-	-

804

SURF PRO 4-1/2" x 7/8" Arbor Economy Zirconia Flap Discs



- Zirconia abrasive for high cut rate and fast / cool cutting
- Best for welds and blending, rust removal and light deburring on ferrous and non-ferrous metals
- Heavy X-weight cloth and fiberglass
- Type 29 shape for maximum aggression(Recommended to be used at an angle of 15° to 25° for maximum aggression and high cut rate)

		Type 29			Type 27		
Grit	Maxi-mum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	13,300	**SP11FD457A9036Z**	3.49	**2.95**	**SP11FD457A7036Z**	3.49	**2.95**
40	13,300	**SP11FD457A9040Z**	3.49	**2.95**	**SP11FD457A7040Z**	3.49	**2.95**
60	13,300	**SP11FD457A9060Z**	3.49	**2.95**	**SP11FD457A7060Z**	3.49	**2.95**
80	13,300	**SP11FD457A9080Z**	3.49	**2.95**	**SP11FD457A7080Z**	3.49	**2.95**

Also available in trimmable back and zirc plus.

22377

3M 6" x 9" Scotch-Brite™ Hand Pads



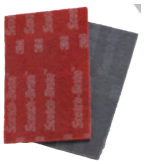
- Excellent products for hand finishing and cleaning of woods, metals and composites
- Ideal for wood finishing, paint prep and general cleaning
- Priced each / sold in standard pack only
- Save up to 10% on case qty. (60 pieces)

Width	Length	Color	Grade	Standard Pack	Order No.	Regular Price	SALE
3 1/2"	4 1/2"	Gray	Fine	-	**TM2202604**	4.38	**3.95**
3 2/3"	9 1/4"	Maroon	Very Fine	100	**TM2264958**	2.60	**1.95**
6"	9"	Tan	Coarse	20	**TM2265055**	4.80	**3.45**
6"	9"	Tan	Medium	40	**TM2218451**	174.72	**156.95**
6"	9"	Gray	Medium	20	**TM2265056**	3.23	**2.75**
6"	9"	Maroon	Very Fine	20	**TM2204029**	1.78	**1.55**
6"	9"	Light Gray	Ultra Fine	20	**TM2204028**	2.30	**1.95**

TM2218451 - 7440B Priced and Sold In Box of 40 Pcs.

135

3M Scotch-Brite™ 7447 PRO & 7448 PRO Hand Pads



- Breakthrough fiber coating technology allows Scotch-Brite™ 7447/7448 PRO to cut faster and produce a more consistent scratch

Width	Length	Grade	Style	Order No.	Regular Price	SALE
6"	9"	Very Fine	7447 PRO	**TM2264926**	1.78	**1.55**
6"	9"	Super Ultra Fine	7448 PRO	**TM2264935**	1.78	**1.55**
6"	9"	Ultra Fine	7447 & 7448 PRO	**TM2264933**	5.77	**4.95**

22313

NORTON Flexible Diamond Hand Pads



- Lightweight and durable conformable backing adapts to a variety of surfaces.
- Precision dot pattern allows aggressive consistent cut rate, uniform finish and reduced loading.
- Can be used wet or dry, no dressing required.
- Color coded for easy identification.
- For shaping and rapid stock removal, touchup and repairs on ceramic, stone, marble, glass, composite and hard materials.
- Also used for polished dies and molds.

Width	Length	Grit	Color	Order No.	Regular Price	SALE
2 1/8"	3 1/2"	400	Yellow	**MH63HP05852**	32.57	**27.70**
2 1/8"	3 1/2"	60	Green	**MH63HP06360**	61.82	**55.65**
2 1/8"	3 1/2"	120	Black	**MH63HP06361**	50.47	**42.90**
2 1/8"	3 1/2"	200	Red	**MH63HP06362**	41.30	**35.10**
2 1/8"	3 1/2"	800	White	**MH63HP06363**	32.57	**27.70**
2 1/8"	3 1/2"	1800	Blue	**MH63HP06364**	32.57	**27.70**

24138

NORTON Bear-Tex® General Purpose Hand Pads - 6" x 9"



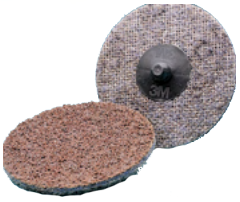
- For use on a wide variety of hand cleaning, finishing and polishing operations
- Easily folded or cut to any convenient size
- Aluminum oxide (very fine, maroon) or Silicon carbide (microfine, gray)
- Waterproof and solvent resistant
- Standard pack: 20 pcs.

Color	Abrasive Material	Order No.	Regular Price	SALE
Maroon	Aluminum Oxide	**MH62HP747**	2.26	**2.05**
Gray	Silicon Carbide	**MH62HP748**	2.08	**1.80**

24143

3M Scotch-Brite™ Roloc™ Surface Conditioning Discs

- Scotch-Brite™ Roloc™ surface non-woven web provides a burr free decorative finish
- Removes grind marks, rust and coatings
- Roloc TR plastic button



Diameter	Maximum RPM	Grade	Color	Standard Pack	Order No.	Regular Price	SALE
1″	30000	Medium	Maroon	200	**TM2115392**	1.14	**1.00**
1″	30000	Very Fine	Teal	200	**TM2115391**	1.14	**1.00**
1 1/2″	30000	Coarse	Brown	50	**TM2108764**	1.19	**1.00**
1 1/2″	30000	Medium	Maroon	50	**TM2108765**	1.19	**1.00**
1 1/2″	30000	Very Fine	Teal	50	**TM2108766**	1.19	**1.00**
2″	25000	Coarse	Brown	50	**TM2105528**	1.74	**1.55**
2″	25000	Medium	Maroon	50	**TM2105527**	1.74	**1.55**
2″	25000	Very Fine	Teal	50	**TM2105523**	1.74	**1.55**
3″	18000	Coarse	Brown	25	**TM2105532**	3.22	**2.75**
3″	18000	Medium	Maroon	25	**TM2105531**	3.22	**2.75**
3″	18000	Very Fine	Teal	25	**TM2105530**	3.22	**2.75**
4″	12000	Coarse	Brown	4	**TM2312954**	4.67	**3.95**

Holder: MM59-64922

142

3M Scotch-Brite™ Bristle Discs for Angle Grinders

- 4-1/2″ Diameter with 5/8″ trim length and 5/8-11 arbor hole
- Flexible yet durable bristles conform the workpiece without damaging base material
- Continuous supply of mineral in abrasive-filled bristles provides a high cut rate and more uniform finish
- Discs are designed to resist loading, extending service life
- Available in 3 grades: 50 (green), 80 (yellow) and 120 (white)
- Use with angle grinders with 5/8-11 spindle



Diameter	Grit	Maximum RPM	Color	Standard Pack	Order No.	Regular Price	SALE
4 1/2″	120	12,000	White	40	**TM3124243**	40.04	**35.95**
4 1/2″	50	12,000	Green	40	**TM3124241**	40.04	**35.95**
4 1/2″	80	12,000	Yellow	40	**TM3124242**	40.04	**35.95**

128

SUPERIOR ABRASIVES Surface Conditioning Quick Change Discs

- Ideal for blending, cleaning & deburring
- For both flat & contour applications
- Quick cutting action
- 2″ - 50 pcs. per carton
- 3″ - 25 pcs. per carton



		Surface Conditioning		
Diameter	Grade	Order No.	Regular Price	SALE
1-1/2″	CRS	**MM6410550**	1.34	**0.95**
2″	CRS	**MM6410544**	1.75	**1.40**
2″	MED	**MM6410554**	1.68	**1.34**
2″	VFN	**MM6410546**	1.68	**1.34**
3″	CRS	**MM6410547**	3.16	**2.55**
3″	MED	**MM6410548**	2.99	**2.40**
3″	VFN	**MM6410549**	2.99	**2.40**

2″ Holder Roll-On MM59-64922 - Turn-On MM59-64198
3″ Holder Roll-On MM59-64949 - Turn-On MM59-64113

10738

SURF PRO High Performance Cut-Off Wheels

- High performance aluminum oxide grain
- Thin width for minimal material loss
- Double reinforced
- Quick, clean cuts and longer wheel life
- Less down time for wheel changes
- Reduced cost, increased productivity

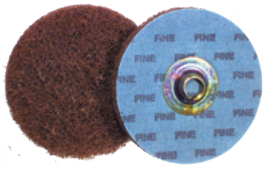


Diameter	Thickness	Arbor Hole	Wheel Type	Order No.	Regular Price	SALE
3″	.040″	3/8″	Type 1	**SP010304038HPA**	1.24	**0.95**
3″	1/16″	3/8″	Type 1	**SP010311638HPA**	1.24	**0.95**
4 1/2″	.045″	7/8″	Type 1	**SP014504578HPA**	1.55	**1.35**
6″	.045″	7/8″	Type 1	**SP010604578HPA**	3.28	**2.80**

680

STANDARD ABRASIVES Buff & Blend Quick Change Discs

- Soc-Att style (turn-on style)
- Fast removal of light oxidation
- Blending minor imperfections
- Prepping surfaces for painting



	Medium			Fine			Very Fine		
Diameter	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 1/2″	**MM75840212**	1.44	**1.30**	**MM75840213**	1.40	**1.30**	-	-	-
2″	**MM75840312**	1.55	**1.40**	**MM75840313**	1.44	**1.30**	**MM75840315**	1.47	**1.35**
3″	**MM75840412**	2.51	**2.30**	**MM75840413**	2.28	**2.10**	**MM75840415**	2.28	**2.10**

25027

CGW Quickie Cut™ Reinforced Cut-off Wheels

- Extra thin reinforced cut off wheels - type 1
- Aluminum oxide cuts metal, steel & stainless
- A36 T-BF wheels provide fast cutting action & good life
- A60-TB-Flex wheels cut fast last longer and flex
- "Iron Free" so no rust will develop
- Box quantity - 25 Pcs.



Diameter	Thickness	Arbor Hole	Specification	Order No.	Regular Price	SALE
4 1/2″	.045″	7/8″	A36-TBF	**MG9035514**	2.38	**1.95**
6″	.045″	7/8″	A36-TBF	**MG9035517**	3.03	**2.70**
4 1/2″	.035″	7/8″	A60-TB Flex	**MG9045010**	2.35	**2.10**
6″	.040″	7/8″	A60-TB Flex	**MG9045012**	3.06	**2.75**

22862

CGW Zirconia Premium Small Cut-Off Wheels - Type 1

- ZA: Zirconia aluminum oxide - metal, steel and stainless
- Longer lasting life and easy cutting action



Diameter	Thickness	Arbor Hole	Specification	Maximum RPM	Order No.	Regular Price	SALE
3"	1/16"	1/4"	ZA36-TBF	23900	**MG9036173**	2.96	**2.65**
3"	1/16"	3/8"	ZA36-TBF	23900	**MG9036174**	2.96	**2.65**
3"	1/32"	1/4"	ZA60-TBF	23900	**MG9036175**	2.82	**2.55**
3"	1/32"	3/8"	ZA60-TBF	23900	**MG9036176**	2.82	**2.55**
4"	1/16"	3/8"	ZA36-TBF	19100	**MG9036178**	3.89	**3.50**
4"	1/32"	1/4"	ZA60-TBF	19100	**MG9036179**	3.16	**2.85**
4"	1/32"	3/8"	ZA60-TBF	19100	**MG9036180**	3.32	**2.95**

22877

SURF PRO Light Grind & Cut-Off Wheels-Zirconia - Type 1

- Zirconia grain
- High performance for cutting and notching applications
- Use on ferrous metals (iron, steel, welds), stainless steel and high tensile alloys



Diameter	Thickness	Arbor Hole	Grit	Order No.	Regular Price	SALE
3"	1/8"	1/4"	46	**SP0103012521462**	3.81	**2.95**
3"	1/8"	3/8"	46	**SP0103012531462**	3.76	**2.95**
4"	1/8"	1/4"	36	**SP0104012521362**	8.25	**6.60**
4"	1/8"	3/8"	36	**SP0104012531362**	4.42	**3.55**

25163

SURF PRO Thin Flex Cut-Off Wheels

- Zirconia grain
- Thin, flexible and fiberglass reinforced
- High performance for cutting and notching applications
- Use on ferrous metals (iron, steel, welds), stainless steel and high tensile alloys



Diameter	Arbor Hole	Thickness	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	.035"	60	**SP0104503571602**	2.69	**2.15**
5"	7/8"	.040"	60	**SP0105004071602**	3.06	**2.50**
6"	7/8"	.040"	60	**SP0106004071602**	3.46	**2.95**

25178

SURF PRO Wheel Adapters / Cut Off Wheel Mandrels

- Wheel adapter for use with cut off wheels
- Screw head type is slotted for Quick Change - Holds wheel flush
- Nut type includes arbor, hex nut and washers



Mandrel Adapter, Screw Head						
Arbor Hole	Shank	Length	Washer OD	Order No.	Regular Price	SALE
1/4"	1/4"	2.15"	3/4"	**SP24001414SH**	7.52	**5.95**
1/4" or 3/8"	1/4"	2.15"	3/4"	**SP24143814SH**	8.65	**5.95**
3/8"	1/4"	2.15"	3/4"	**SP24003814SH**	7.52	**5.95**

Arbor Adapter, Nut Type						
Arbor Hole	Shank	Length	Washer OD	Order No.	Regular Price	SALE
1/4"	1/4"	2.50"	1"	**SP24001414NT**	7.11	**4.95**
3/8"	1/4"	2.50"	1"	**SP24003814NT**	7.11	**4.95**
1/2"	1/4"	2.50"	1 1/2"	**SP24001214NT**	7.73	**5.80**

696

NORTON Silicon Carbide Bench Wheels

Features:

- These wheels cover a broad range of general bench grinding jobs
- Each wheel contains a free nested bushing
- For carbide and non-ferrous material

Silicon Carbide Grit Range:

- Medium - 60 grit for roughing of carbide tools
- Fine - 80 grit for all purpose grinding of carbide tools



Diameter - 6", Width - 1/2", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	**MH60060036571**	54.61	**46.42**
Medium Grit	4,140	1	**MH60060036572**	54.61	**46.42**
Fine Grit	4,140	1	**MH60060036573**	54.61	**46.42**

Diameter - 6", Width - 1", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	**MH60060037187**	70.26	**59.72**
Medium Grit	4,140	1	**MH60060037193**	70.26	**59.95**
Fine Grit	4,140	1	**MH60060037194**	70.26	**59.95**

Diameter - 6", Width - 3/4", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	**MH60060037190**	60.79	**54.95**
Medium Grit	4,140	1	**MH60060037191**	60.79	**54.95**
Fine Grit	4,140	1	**MH60060037192**	60.79	**54.95**

Diameter - 7", Width - 1", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	3,600	1	**MH60070042300**	85.86	**72.95**
Medium Grit	3,600	1	**MH60070042301**	85.86	**72.95**
Fine Grit	3,600	1	**MH60070042302**	85.86	**72.95**

24160

SURF PRO Bench & Pedestal Grinding Wheels - Aluminum Oxide



- Aluminum oxide grain
- Used for general purpose grinding and tool sharpening
- For ferrous metals (carbon steel, steel, iron, forgings, etc)
- Convenient single pack

Diameter	Width	Arbor Hole	Grit	Order No.	Regular Price	SALE
6"	3/4"	1"	36	**SP01063041A036O**	26.00	**21.95**
6"	3/4"	1"	60	**SP01063041A060M**	32.27	**26.95**
6"	3/4"	1"	80	**SP01063041A080M**	26.00	**21.95**
6"	1"	1"	36	**SP01064041A036O**	29.93	**24.95**
6"	1"	1"	60	**SP01064041A060M**	29.93	**24.95**
6"	1"	1"	80	**SP01064041A080M**	29.93	**24.95**

Also available in 7" & 8" diameter.

25150

SURF PRO Bench & Pedestal Grinding Wheels - Silicon Carbide



- Silicon carbide grain
- Extremely sharp grain for fast, burr-free cutting
- Use on carbide tipped tool, cast and ferrous or non-ferrous metals
- Convenient single pack

Diameter	Arbor Hole	Thickness	Grit	Order No.	Regular Price	SALE
6"	1"	3/4"	60	**SP01063041G060I**	38.92	**32.95**
6"	1"	3/4"	80	**SP01063041G080I**	38.92	**32.95**
6"	1"	3/4"	100	**SP01063041G100I**	38.92	**32.95**
6"	1"	1"	60	**SP01064041G060I**	35.86	**29.95**
6"	1"	1"	80	**SP01064041G080I**	44.54	**37.95**
6"	1"	1"	100	**SP01064041G100I**	35.86	**29.95**

Also available in 7" & 8" diameter.

25152

SAIT 4-1/2" Depressed Center Wheels - Type 27 - Aluminum Oxide

Use with Right Angle Air/Electric Grinders



A24 N Grade

- Soft bond for fast stock removal
- Ideal for ferrous metals and low grade stainless

A24 R Grade

- Medium bond for longer life
- Ideal for general purpose grinding of ferrous metals

				A24R			A24N		
Diameter	Width	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	1/4"	7/8"	13,300	**MG4120063**	3.57	**3.05**	**MG4120060**	3.57	**3.05**
4 1/2"	1/4"	5/8"-11	13,300	**MG4120163**	6.31	**5.35**	**MG4120160**	6.31	**5.35**

25344

SURF PRO Wheel Dresser Sticks

Rapid, economical way to dress grinding wheels.



Width	Thickness	Overall Length	Order No.	Regular Price	SALE
1"	1"	6"	**MJ55116**	7.51	**6.00**
1"	1"	8"	**MJ55118**	9.26	**7.40**

25467

SURF PRO Economy Diamond Wheel Dressers



- For dressing vitrified grinding wheels

	Shank Diameter - 3/8", Shank Length - 3"			Shank Diameter - 7/16", Shank Length - 3"		
Diamond Carat Size	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	**MN45E-D025A**	6.92	**5.55**	**MN45ED025B**	6.92	**5.55**
1/2"	**MN45E-D050A**	11.37	**8.95**	**MN45ED050B**	11.37	**8.95**
1"	**MN45E-D100A**	22.28	**17.85**	**MN45ED100B**	22.28	**17.00**
1-1/2"	**MN45E-D150A**	34.94	**27.95**	**MN45ED150B**	34.94	**27.95**
2"	**MN45E-D200A**	43.15	**34.95**	**MN45ED200B**	43.15	**34.95**

674

SURF PRO Brake Controlled Truing Device

For Diamond and CBN Wheels



- Designed for truing diamond and CBN wheels rapidly and with minimum loss of diamond
- Ideal for straight wheels with diamond in the periphery, cut-off wheels, internal grinding wheels and cup wheels with diamond in the rim
- Easy to operate
- Rotate the truing wheel and make contact with diamond/CBN wheel
- Oscillate the unit and truing wheel across face of wheel being trued using machine cross-slide

ProductName	Order No.	Regular Price	SALE
3" x 1" Brake Controlled Truing Device Replacement Wheel	**MG753100**	10.30	**9.05**
For Use On: Diamond & Carbon Wheels - Brake Truing Device	**NP55DT100**	357.59	**285.95**

658

Lisle Magnetic Soldering Clamp



- Clamp offers an extra pair of hands when soldering
- Alligator clamps firmly hold wire and small parts
- Flexible design promotes different holding positions
- Clips and base are magnetic
- Arms are magnetic and can be removed and used without the base
- Base is hex shape to fit in a vise

Order No.	Regular Price	SALE
KN6555000	22.18	16.95

2763

PRM PRO Tungsten Electrodes

- Complete line of Tungsten Electrodes available
- Priced per package of 10 pieces



Pure



2% Ceriated



1.5% Lanthanated



E3

	Pure			2% Ceriated			1.5% Lanthanated			E3		
Size	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/16"	WE101167G	20.12	15.95	WE101167GC2	22.11	17.70	WE101167GL	21.05	16.95	WE101167000	18.52	14.85
3/32"	WE103327G	39.92	31.95	WE103327GC2	4.42	3.95	WE103327GL	42.14	33.95	WE103327000	36.35	29.10
1/8"	WE10187G	67.98	53.95	WE10187GC2	75.00	59.95	WE10187GL	71.44	56.95	WE10187000	62.74	49.95

2910

PRM PRO 26 Series Tig Torch Packages



- 200 Amp Air-cooled

Type	Length	Includes	Order No.	Regular Price	SALE
Flex Torch Package	25'	Power Cable, Torch, Handle, Back Cap	WE1026FV252	215.68	172.95
Flex Torch Package	25'	Power Cable, Torch, Handle, Back Cap	WE1026FV25R	201.77	160.95

2904

Protect-O-Screens



- Protects workers from hazards of welding sparks, spatter and UV flash
- Can be used individually or joined together to form multiple panel enclosures
- Features sturdy 18 gauge steel frame and your choice of 12 oz. olive duck or orange transparent vinyl curtain
- Other material and sizes are available
- UPS dimensional weight shipping rates apply

Width	Height	Color	Order No.	Regular Price	SALE
6 feet	6 feet	Olive Drab Cotton	RT5850166	206.00	164.80
6 feet	8 feet	Olive	RT5850186	248.95	198.95
6 feet	6 feet	Orange	RT5853866	185.19	147.95
6 feet	8 feet	Orange	RT5853886	223.92	178.95

3141

Protective Welding Sleeves



RT5810345



RT5813118

- Flame retardant sleeves fit easily into welding glove cuffs to protect upper arms from light welding sparks and burns
- Carbonized fiber models have added protection against sparks, flames, and splatter
- Choice of 18" or 23" length
- Elastic sleeves on top and wrist area
- Sold in pairs

Length	Material	Color	Order No.	Regular Price	SALE
18"	Cotton	Green	RT5810345	10.51	8.40
18"	Fibers	Black	RT5813118	76.94	61.55

30751

High Temperature Work Gloves



- (08314) Aramid (Kevlar) fibers and fiberglass blend
- (07114) Treated fiberglass, 35 oz. highly texturized Silica yarn
- (08314) Withstands exposure up to 600° Fahrenheit
- (07114) Withstands temperatures up to 2000° Fahrenheit
- Full 11 ez wool insulated lining
- Superior abrasion and cut resistance

Maximum Temperature	Order No.	Regular Price	SALE
600 Degrees F	RT5808314	80.65	64.95
2000 Degrees F	RT5807114	139.36	110.95

30852

Titan Welding Helmets



- Variable shades from DIN 9 to DIN 13
- Ultra high performance filters protect against UV and IR
- Automatically changes from a light to dark when arc is struck
- Complies with DIN, ISO, EN379 safety standards and ANSI Z 87.1 standards
- Durable, light weight material is corrosion resistant and flame retardant
- Utilizes high performance solar cells with 2 built-in 3V lithium batteries as power back-up
- Viewing area: 2.125 x 4"
- 1 Year warranty against mfg defect

Order No.	Regular Price	SALE
KP8241279	175.60	122.95

25291

Weller Professional Solder Gun Kits



- Dual-heat gun produces 260 or 200 watts
- Pistol grip design
- Fingertip trigger selects high (1st trigger position) or low output (2nd trigger position)
- Ready to use in 6 seconds
- Twin Lights illuminate work
- **Kit contains:** Dual-Heat gun, 1 soldering tip, 1 smoothing tip, 1 cutting tip, flux brush, soldering aid tool and a coil of lead free solder.

Order No.	Regular Price	SALE
RT50D550PK	98.88	88.95

3226

7018 Mild Steel Electrodes



- High deposition electrode for low and medium carbon steels
- It is an efficient iron powder, low hydrogen electrode with excellent mechanical properties, crack resistance, and X-ray quality welds
- This electrode offers a quiet, stable low penetration spatter-free arc
- Sold by the pound

Diameter	Length	Container Type	ManufacturerNo	Order No.	Regular Price	SALE
3/32"	14"	5 Lb Package	7018505	**HR7120240**	4.94	**4.45**
1/8"	14"	5 Lb Package	7018605	**HR7120250**	4.74	**4.25**
5/32"	12"	5 Lb Package	7018705	**HR7120260**	4.74	**4.25**
3/32"	12"	10 Lb Package	70185010	**HR7120270**	4.74	**4.25**

2656

HMD Medium Duty Acetylene Outfit



- Includes one-piece encapsulated seats for longer service life, and a 7 year warranty
- Features twin-tube, silver-brazed connections for safety and durability when welding, brazing, cutting or heating with acetylene
- Brazed triangular stainless steel tubes makes it light in weight while providing exceptional strenght and rigidity

Includes	ManufacturerNo	Order No.	Regular Price	SALE
Goggles, Striker, 20' x 1/4" Hose, Insulated Tool Bag	4400366	**HR7010120**	421.97	**379.95**

2665

Alloy 5356 (MIG)



- Very good all purpose wire
- Most widely used of all aluminum fillers metals
- Sold by the pound per spool

Wire Size	Container Size	ManufacturerNo	Order No.	Regular Price	SALE
0.0300"	1 lbs.	05356E1	**HR7120430**	19.47	**17.50**
0.0350"	1 lbs.	05356F1	**HR7120440**	13.91	**12.50**
0.0350"	16 lbs.	05356F6	**HR7120450**	12.46	**11.20**
3/64"	1 lbs.	535621	**HR7120460**	13.39	**12.05**
3/64"	16 lbs.	535627	**HR7120470**	11.64	**9.95**

Price Per Pound

2659

6" Fire Resistant Black Welding Doo Rag



- Provides a more comfortable fit inside your helmet
- 1 size fits all
- Machine washable
- Made from 100% cotton

Color	Material	Order No.	Regular Price	SALE
Black	Cotton	**LE01KH822**	9.06	**8.15**

29102

Black Cloth Welding Shirts



- Treated fabrics are cotton or cotton-blend fabrics that are treated with chemicals that form a permanent bond with the fabric that cannot be washed out when the recommended laundering instructions are followed
- Sleeve length varies by size from 31 in. to 34 in.
- Machine washable
- Features snap sleeves for form fitting cuffs

		Khaki			Black		
Size	Material	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Medium	Cotton	**LE01KH841M**	56.35	**50.95**	**LE01KH809M**	56.35	**50.95**
Large	Cotton	**LE01KH841L**	56.35	**50.95**	**LE01KH809L**	56.35	**50.95**
X-Large	Cotton	**LE01KH841XL**	56.35	**50.95**	**LE01KH809XL**	56.35	**50.95**
2X-Large	Cotton	**LE01KH841XXL**	63.43	**56.95**	**LE01KH809XXL**	61.68	**55.50**

Pricing could change from the mfg please call for current pricing

28737

ADF Helmet with Grind





LE01K34191

- New K3419-1 Lincoln Electric welding helmet
- Lightweight design
- Durable and dependable
- Suitable for a wide range of projects
- Processes stick, TIG, pulsed TIG, MIG, pulsed MIG, flux-cored, gouging
- Auto Darkening 7-13 & Grind

LE01K34451

View Height	View Width	Color	Order No.	Regular Price	SALE
1-3/4"	3.82"	Black	**LE01K34191**	126.43	**113.95**
1-3/4"	3.82"	Camo	**LE01K34451**	85.98	**77.40**

28750

Leather Welding Waist Apron



- Length: 45"
- Adjustable neckstrap closure
- Helps to protect your clothes and skin from spattering
- Harness can be adjusted for a secure and comfortable fit
- Suitable for light welding

Size	Type	Color	Order No.	Regular Price	SALE
24" x 45"	Welding Apron	Brown	**LE01KH804**	41.70	**37.50**

29097

Fire Resistant Black Welding Sleeves



- Slip on a pair of welding sleeves for added spatter and heat resistance.
- These black sleeves feature 9 oz. 100% flame retardant material where possible to keep you cool, but include split leather panels in high wear areas.
- Elastic cuffs at each end keep spatter out and hold the sleeves in position.
- Sleeve length 21" (53 cm)

Color	Material	Order No.	Regular Price	SALE
Black	Cotton	**LE01KH813**	13.58	**12.25**

29101

PRM PRO Air Die Grinders

- Lever throttle for positive speed control
- Rear exhaust
- Rec. air pressure @ 90 PSI
- Collet size: 1/4"
- Collet wrenches included



Type	Features and Benefits	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Right Angle	Lever throttle for positive speed control, complete with collet wrenches	20,000	4 CFM	1/4" NPT	**PJ60SM522**	68.39	**47.90**
Straight	All ball bearing construction, lever throttle for positive speed control, complete with collet wrenches	22,000	4 CFM	1/4" NPT	**PJ60DG1**	40.38	**28.30**
Straight	Extended heavy duty spindle, lever type throttle	22,000	16 CFM	1/4" NPT	**PJ60RG38A**	118.04	**82.95**

22669

PRM PRO Pneumatic Cut Off Tool & Right Angle Grinder Kit

Kit Includes:

- 1/4" Right angle die grinder
- 3" Cut-off tool
- 3 - Abrasive cut-off wheels
- 5 - Mounted points with 1/8" shank
- 5 - Mounted points with 1/4" shank
- 3 - Spanner wrenches
- 1 - Blow molded case
- 1 - Air fitting



Order No.	Regular Price	SALE
PJ752060	114.87	**79.95**

1960

air turbine tools High Flow Filter/Regulator

- Filter provides a high performance, space saving combination unit
- Ideal for use in high flow applications that require regulated, high quality air



Port Size	Flow Rate	Order No.	Regular Price	SALE
3/8"	65 SCFM	**PF5330003**	124.74	**111.95**

1964

PRM PRO Chicago Pneumatic Air Grinders with 1/8" Collet

- Designed for high speed hand grinding, deburring, drilling, polishing, burring and sanding
- An in-line filter and oiler should be used to provide adequate lubrication to the air motor
- Air Pressure must be kept below 85 lb/in - High air pressure increases speed which causes damage to the wheels and grinder



BrandName	Maximum RPM	Order No.	Regular Price	SALE
Chicago Pneumatic	60,000	**PF50CP9104QB**	255.02	**216.95**
PRM Pro	54,000	**PJ65TG11A**	111.90	**77.95**

2316

DYNABRADE 1.3 HP Right Angle Grinder

4-1/2" Diameter, 12,000 RPM

- For fast weld removal, rust and scale removal and heavy deburring
- Ideal for use with Type 27 grinding wheels



Specifications:

- Weight 4.5 lbs
- 1.3 HP @ 12,000 RPM
- 4-1/2" Diameter
- 5/8-11 Spindle
- Rear exhaust
- Hose size 3/8"

Order No.	Regular Price	SALE
PF3052632	965.11	**868.95**

2149

DYNABRADE Dynafile® II Abrasive Belt Machine For 18" Long Belts

Model 40320

Grind, deburr, blend and polish, on metal, plastic, fiberglass, composites, rubber, glass and more.



- Includes 11206 Contact Arm for 3/4" W x 18" L abrasive belts
- Ideal for use with coated abrasive and non-woven nylon belts!
- Grind off contact wheel or platen pad. Finish & polish using slack of belt

Belt Length	Belt Width	Maximum RPM	Horse-power	Air Inlet Size	Order No.	Regular Price	SALE
18"	3/4"	20,000	0.50 hp	1/4" NPT	**PF3040320**	810.61	**688.95**

2166

DYNABRADE 'The Original' Dynafile® Abrasive Belt Machine

Model 14000



- Belt housing has larger opening for belt tracking and operation
- Composite belt guard
- Lightweight, thermal-insulated composite motor housing reduces vibration and cold air transmission to operator
- Adjustable speed to 5,800 surface feet per minute
- Replaces tedious hand filing and sanding
- Work in areas as small as 3/8" diameter
- They Dynafile accepts over 30 interchangeable contact arms

Belt Length	Belt Width	Maximum RPM	Horse-power	Air Inlet Size	Order No.	Regular Price	SALE
24"	1/2"	20,000	0.50 hp	1/4" NPT	**PF3014000**	824.00	**699.95**

2167



DEWALT Hammer Drills



- 7.8 Amp motor provides high performance and overload protection
- Lightweight design for easy use w/two-finger trigger for increased comfort
- 360-degree side handle with depth rod offers greater
- Variable speed allows for precise hole placement on work surface
- Drill comes with (includes hammer drill and 360° side handle)
- Drill and kit comes with (includes hammer drill, 360° side handle, depth rod, chuck key holder and storage kit box)

Chuck Style	Volt-age	Chuck Size	Number of Speed	Maximum RPM	Model No	Order No.	Regular Price	SALE
Keyed Chuck	120 V	1/2"	2	0-19,000/0-46,000	DW505	**PD20DW505**	219.72	**197.95**
Keyed Chuck	120 V	1/2"	2	0-19,000/0-46,000	DW505K	**PD20DW505K**	263.41	**170.95**

2098

DEWALT 20V Lithium Ion Impact Driver Kits



PD20DCF887B



PD20DCF885M2

- Compact, lightweight design fits into tight areas
- 3 LED lights with 20-second delay after trigger release, provide visibility without shadows
- XR™ Li-Ion batteries with fuel gauge provides 33% more capacity over standard packs
- **DCF887B DOES NOT INCLUDE BATTERY**
- Haz Code HAZ05

Model No	Drive	Volt-age	Impacts per Minute	Maximum RPM	Order No.	Regular Price	SALE
DCF887M2	1/4"	20 V	3,600	0-1,000 / 2,800 / 3,250	**PD20DCF887M2**	429.66	**386.95**
DCF887B	1/4"	20 V	3,800	0-1,000 / 2,800 / 3,250	**PD20DCF887B**	200.70	**180.95**

2081

DEWALT 4-1/2" Small Angle Grinder with No Lock-On



- 11 Amp AC/DC 11,000 RPM motor designed for faster material removal and higher overload protection
- Low profile gear case allows for access into tighter spaces
- One-Touch Guard allows for 360 degree rotation of the guard with a single action
- Matching wheel flanges allow the use of common accessories
- Dust Ejection System provides durability by ejecting damaging dust and debris particles that enter the tool through the air intake vents
- Quick-Change™ Wheel Release provides easier and quicker wheel removal without the need for a wrench
- No Lock-On Paddle switch lock-off provides the user protection from accidental start up

Order No.	Regular Price	SALE
PD20DWE402N	137.75	**123.95**

22349

DEWALT 20V Max Lithium Ion Grinder Tool Kit



- 8,000 RPM motor provides high-power for cutting and grinding applications
- Tool-free guard allows for quick and easy guard adjustments/positioning
- 2-position side handle offers greater control, comfort and versatility
- Power to Grind
- Quick Change™ Wheel Release allows tool-free wheel removal without need for a wrench
- 2-Finger trigger switch (w/lock-off button) allows for convenient activation and easier gripping
- 5.0 amp hour batteries (2)

Order No.	Regular Price	SALE
PD20DCG412P2	470.07	**422.95**

23060

DEWALT 20V MAX* Lithium Ion Premium 3-Speed Drill/Driver Kits



- Lithium Ion batteries offer longer tool run-time and enhanced durability
- Heavy-duty 1/2" metal ratcheting chuck with carbide inserts provide superior bit gripping strength
- High power, high efficiency motor delivers 535 unit watts out of max power for superior performance in all drilling and fastening applications
- 3-speed, all-metal transmission matches the tool to task for fastest application speed and improved run tim
- LED light with 20-second delay after trigger release

Drill Capacity	Maximum RPM	Torque	Clutch Settings	Model No	Order No.	Regular Price	SALE
1/2"	535	535 inch/ lbs	22	DCD985M2	**PD20DCD985M2**	426.72	**383.95**
1/2"	0-450 / 0-1,300/ 0-2,000	820 inch/ lbs	11	DCD991P2	**PD20DCD991P2**	458.78	**412.95**

23063

DEWALT 20V MAX 1/2" Impact Wrench



- Compact (5.70" front to back), lightweight (3.4 lbs) design fits into tight areas.
- Textured, anti-slip comfort grip provides maximum comfort and control.
- 3 LEDs with 20-second delay after trigger release, provide visibility without shadows.
- Tool only (batteries and charger sold seperately).

Drive	Maximum RPM	Battery and Charger	Order No.	Regular Price	SALE
1/2"	0-2,300	Not Included	**PD20DCF880B**	214.16	**181.95**

30840

Chicago Pneumatic Air Powered Sanders

- Chicago Pneumatic tools are engineered for high performance. In addition to pioneering design, high-impact technology, and durability, Chicago Pneumatic means customer value.



PF50CP870

Sander Type	Features	Disc Diameter	Maximum RPM	Air Inlet Size	Order No.	Regular Price	SALE
Palm	Redi power grip for better handling, speed regulator, PSA mount, swivel rear exhaust, low vibration and noise, 5mm orbit no vacuum	5"	12,000	1/4" NPT	**PF50CP3511**	385.86	**327.95**
Angle, with handle	Balanced counter-weight design for low vibration sanding, full 1/2 HP motor, heavy duty ball bearing construction, built-in speed regulator	6"	9,600	1/4" NPT	**PF50CP870**	164.99	**139.95**

22948

Chicago Pneumatic Air Powered Grinders

- General maintenance applications
- Productivity and control ideal for moldings and general high-speed polishing and grinding
- Robust aluminum alloy body
- CP streamline safety lever Built-in air regulator
- Includes 1/4" and 6mm collets



PF50CP872



PF50CP875

Type	Features and Benefits	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Economy Die Grinder	22,000 RPM, 1/4" and 6mm collet, lock-off throttle, speed and power, precision control and safety, excellent tool for general high speed polishing and grinding	22,000	13 CFM	1/4" NPT	**PF50CP872**	160.82	**136.95**
Right Angle	Mini angle grinder compact, lightweight design, 90° angle head allows flexibility in confined areas	22,500	11 CFM	1/4" NPT	**PF50CP875**	157.65	**133.95**

28772

DYNABRADE 5" Dynorbital-Spirit™ Non Vacuum Random Orbital Sander

Model 59020



- Incorporates the latest engineering and manufacturing technology to create the lightest sander on the market today
- New 3-1/2" low profile design, improves control and offers greater operator visibility
- Easily replaceable drop-in motor

Specifications:

- Weight: 1.4 lbs, 75 dB(A)
- .25 HP @ 12,00 RPM
- 3/16" Diameter orbit
- Includes perfectly balanced weight-mated pad - the ultimate in swirl-free finishes

Disc Diameter	Type of Power	Air Inlet Size	Maximum RPM	Horse-power	Model No	Order No.	Regular Price	SALE
5"	Pneumatic	1/4" NPT	12,000	0.25 hp	59020	**PF3359020**	246.17	**221.95**

2180

Ingersoll Rand 1/3 hp. Rt. Angle Grinder 302B



- Right-angle design fits into tight spots
- Powerful 1/3 HP motor
- Built-in lubricating wick increases angle gear life
- Safety-lock throttle is easy to use and prevents accidental startup
- Rrear exhaust directs air away from the operator
- Includes 1/4in. collet, 6mm collet and wrenches

Type	Type of Power	Collet/ Chuck	Handle Type	Maximum RPM	Exhaust Type	Order No.	Regular Price	SALE
Air Die Grinder	Air	1/4"	Right Angle	20,000	Rear	**PR54302B**	221.45	**198.95**

30889

Ingersoll Rand 2235TIMAX IMP WRCH 1/2 DR



▪Finely tuned impact mechanism and motor deliver more torque, durability, and efficiency
▪1,350 ft-lb nut-busting torque
▪A lightweight, balanced, air impact wrench that weighs just 4.6lbs
▪Titanium hammer case is designed to be strong and durable, to protect the interior components of the air impact wrench
▪Impact- and chemical-resistant housing protects against repeated drops and exposure to shop fluids ▪Pin anvil ensures positive socket retention
▪Optimized for the vehicle repair industry, heavy trucks, tire lanes, fleet maintenance, body shops, general industrial use, MRO, rail, heavy machinery, oil and gas, shipbuilding, and construction
▪The 2235TiMAX Series comes with a two-year manufacturing warranty, so you're covered in case of any defects or serious issues.

Drive	Handle Type	Type	Type of Power	Maxi-mum RPM	Torque	Air Inlet Size	Average Air Con-sumption	Impacts per Minute	Drive Type	Order No.	Regular Price	SALE
1/2"	Pistol Grip	Air Impact Wrench	Air	8,500	930 feet/ lbs	1/4" NPT	24 cfm	1,220	Square	**PR552235TI-MAX**	669.50	**602.95**

30866

Ingersoll Rand 1/4 hp. RT. Angle Grinder 301B



- Right-angle design fits into tight spots
- Powerful 1/4 HP motor
- Built-in lubricating wick increases angle gear life
- Safety-lock throttle is easy to use and prevents accidental startup
- Rear exhaust directs air away from the operator
- Includes 1/4in. collet, 6mm collet and wrenches

Type	Type of Power	Collet/ Chuck	Handle Type	Maximum RPM	Exhaust Type	Order No.	Regular Price	SALE
Air Die Grinder	Air	1/4"	Right Angle	21,000	Rear	**PR55301B**	133.90	**120.95**

30868



Straight Die Grinders

- Lockoff Lever
- Front or Rear Exhaust
- Built-in Speed Control



ST3716730



ST3716610

Maximum RPM	Overall Length	Average Air Consumption	Collet/ Chuck	Exhaust Type	Model No	Order No.	Regular Price	SALE
18,000	7-1/2"	30 CFM	1/4"	Rear	SDG10S18R	**ST3716610**	402.42	**321.95**
25,000	6"	25 CFM	1/4"	Front	SDG7S25F	**ST3716730**	409.12	**327.30**

24948

Typhoon™ 1/4" NPT Blow Gun With High Flow Tip

- Maximum flow for easy clean-up and blow-off of even the heaviest shavings and chips
- Lightweight and ergonomic
- 1/4" NPT up to 34 CFM at 125 PSI and 2.1 lbs of thrust
- OSHA compliant



Inlet Size	Tip Type	Order No.	Regular Price	SALE
1/2"	High Flow	**LT51TYP2500CS**	33.61	**26.95**
1/4" NPT	High Flow	**LT51TYP2501CS**	53.46	**42.95**
3/8" NPT	High Flow Multi-Jet	**LT51TYP3800MJ**	67.48	**53.95**

1987

Air Supreme Retractable Air Hose Reels

- Heavy duty steel construction
- 12-Point ratchet for better resolution
- Horizontal and vertical mount options
- Adjustable guide arm
- Powder coated, corrosion resistant



Hose ID	Hose Length	Order No.	Regular Price	SALE
1/2"	50 Feet	**PJ72B12050AHR**	217.00	**173.60**
3/8"	50 Feet	**PJ72A38050AHR**	187.04	**149.95**
1/2"	50 Feet	**PJ72A12050AHR**	212.17	**169.95**
1/2"	50 Feet	**PJ72BO12050AHR**	247.57	**197.95**
3/8"	50 Feet	**PJ72BO38050AHR**	224.57	**179.95**

1957

Blow Guns

- Blow Funs 1/4 NTP Inlet unless otherwise noted
- Extended Reach Blow Gun
- 360° Rotating Extended Reach Nozzle with Rubber Tip



Tip Type	Order No.	Regular Price	SALE
Extension Reach	**LX55AG2**	24.54	**17.95**
Safety Booster	**LX55AG218**	16.74	**9.95**
Safety	**LX55AG7**	8.45	**6.95**

2239

Bi-Metal Blade 3840 DSL

- Extra heavy duty bi-metal blade with coarse teeth for building and demolition work
- Blade thickness is increased 0.63" (1.6mm) for greater strength - making this blade ideal for cutting any building material - even heavy wood with large-dimension nails



Length	Teeth per Inch (TPI)	Quantity	Order No.	Regular Price	SALE
6"	5|8	5	**FX848246631**	21.32	**16.95**
6"	10	5	**FX8414150194773**	18.85	**14.95**
6"	10	10	**FX8414150194827**	28.07	**21.95**
6"	14	5	**FX8414150194766**	18.85	**14.95**
6"	18	10	**FX8414150194803**	28.07	**21.95**
6"	18	5	**FX8414150194759**	18.85	**14.95**
8"	10|14	5	**FX8414150194957**	36.82	**28.95**
8"	10|14	10	**FX8414150194964**	58.45	**46.95**
9"	14	5	**FX8414150194841**	22.61	**17.95**
9"	18	10	**FX8414150194865**	44.29	**34.95**
12"	10	5	**FX8414150194940**	22.61	**17.95**

2325

Locking Air Tool Holder

Organize air tools with the lockable tool holder



- Hold up to five pneumatic tools in a 10" space
- Fits all popular quick connect fittings
- Locking feature protects your air tools from theft (lock not included)
- Durable powder-coated finish

Order No.	Regular Price	SALE
KN6549960	34.27	**25.95**

2274

CDI Torque Wrenches



Dual scale torque wrench with micro adjustable handle

- Dual scale, calibrated dual direction
- Positive lock with spring loaded pull down lock ring
- Fast, accurate and easy to set
- Easy-to-read laser marked scales
- Most feature quick release buttons which provide good socket retention as well as easy socket removal
- Accuracy +/- 3% clockwise direction, from 20-100% full scale
- Meets or exceeds ASME B107.14M-1994, ISO 6789 standards
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.

Drive Size	Torque Range Ft-Lbs	Increments	Overall Length	Order No.	Regular Price	SALE
1/4"	10-50 inch/lbs	1 inch/lbs	9.9"	KL45501MRMH	314.04	219.95
1/4"	20-150 inch/lbs	1 inch/lbs	10.15"	KL451501MRMH	316.04	220.95
3/8"	5-75 feet/lbs	0.5 feet/lbs	15 1/2"	KL45752MFRMH	335.60	234.95
3/8"	10-100 feet/lbs	0.5 feet/lbs	15 1/2"	KL451002MFRMH	346.24	241.95
3/8"	20-150 inch/lbs	1 inch/lbs	10.15"	KL451502MRMH	311.44	217.95
3/8"	30-200 inch/lbs	1 inch/lbs	10.15"	KL452002MRMH	324.04	226.95
3/8"	30-250 inch/lbs	1 inch/lbs	11.15"	KL452502MRMH	328.60	229.95
3/8"	100-750 inch/lbs	5 inch/lbs	15 1/2"	KL457502MRMH	343.80	240.95
3/8"	150-1000 inch/lbs	5 inch/lbs	15 3/4"	KL4510002MRMH	348.76	243.95
1/2"	20-150 feet/lbs	1 feet/lbs	19"	KL451503MFRMH	391.60	273.95
1/2"	30-250 feet/lbs	1 feet/lbs	24.4"	KL452503MFRMH	425.92	297.95

24966

Micro-Adjustable Torque Screwdrivers



- Positive locking pull down adjustment knob
- Trilobular comfort grip
- Universal 1/4" hex bit holder with strong rare earth magnet
- Cam-over torque limiting clutch
- Easy-to-read window scale
- Lightweight ease-of-use
- Automatic lock in counterclockwise direction
- Accuracy +/- 6% clockwise direction, from 20-100% of full scale
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.

Minimum Torque	Maximum Torque	Increments	Order No.	Regular Price	SALE
10 cNm	80 cNm	1 cNm	KL4561NSM	350.00	244.95
40 cNm	200 cNm	2 cNm	KL45151NSM	325.44	227.95
50 cNm	450 cNm	5 cNm	KL45401NSM	375.12	262.95
3 inch/lbs	15 inch/lbs	0.2 inch/lbs	KL45151SM	358.00	250.95
5 inch/lbs	40 inch/lbs	0.5 inch/lbs	KL45401SM	375.12	262.95
20 inch/oz	100 inch/oz	1 inch/oz	KL4561SM	356.80	249.95

7489

Hacksaw Frames



FX84325



KL30225PLUS

Erogonimic Hand Hacksaw:

- Designed according to Bahco 11-point scientific ergonomic program
- Two rubber coated hand grips for comfort and control
- A tensioning lever designed for fast and safe blade changes
- Highest blade tensioning results in a straight cut
- Supplied with Bahco 12 inch bi-metal blade for safety and efficiency

Heavy Duty Frame with Blade Storage:

- Allows very high blade tension for accurate and fast cuts
- Strong rectangular back section for blade storage with easy-to-handle retaining screws
- Can also be used as a compass saw
- Alternative 55° blade mounting for flush cutting
- Supplied with reliable and shatterproof 12 inch bi-metal blade, 24 TPI

Blade Length	Teeth per Inch	Includes	Order No.	Regular Price	SALE
12"	24	Reliable and shatterproof 12" bi-metal blade, 24 TPI	FX84325	80.86	64.95
12"	24	Reliable and shatterproof 12" bi-metal blade, 24 TPI	KL30225PLUS	59.62	47.95

7472

Mill Files



- Excellent for a wide range of applications such as sharpening, draw filing, lathe work and general shop use
- Mill files are single cut on the sides and edges, and taper towards the point in width
- 2nd cut file, a medium file designed for moderate stock removal
- Bastard file, a coarse file designed for fast removal of stock material
- Smooth file, a fine file designed for making an almost smooth surface

	Bastard			2-nd Cut			Smooth		
Overall Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	KL3011430410	6.78	4.95	KL3011430420	9.42	7.95	KL3011430430	10.03	7.95
6"	KL3011430610	7.44	5.95	KL3011430620	9.86	7.95	KL3011430630	10.38	7.95
8"	KL3011430810	8.23	6.95	KL3011430820	10.25	7.95	KL3011430830	12.06	9.95
10"	KL3011431010	10.25	7.95	KL3011431020	13.33	10.95	KL3011431030	14.43	11.95
12"	KL3011431210	17.16	13.95	KL3011431220	18.92	14.95	KL3011431230	21.38	16.95

7476

6 Pc. Screw Extractor Set



- Straight, tapered flutes preferred by users
- Designed for quick, easy removal of left or right-handed broken screws, bolts, studs or other threaded forms
- Drill bit sizes to be used are stamped on each extractor
- A hole is first drilled in the broken stem and the right size Williams extractor is then inserted

MADE IN USA

Set Includes	Order No.	Regular Price	SALE
1/8", 3/16", 7/32", 5/16", 3/8", 15/32"	KP30EXS30	66.56	49.95

30233

Locking Pliers Sets

Features

- Convenient one-hand release lever
- Heavy-duty jaw surfaces provide extra gripping power
- Satin chrome finish



KP3023072



KP3023074



KP3023076

Number of Pieces	Set Includes	Order No.	Regular Price	SALE
3	5" Curved Jaw Locking Pliers with Cutter, 7" Curved Jaw Locking Pliers with Cutter, 10" Curved Jaw Locking Pliers with Cutter	KP3023072	30.96	22.95
4	5" Curved Jaw Locking Pliers with Cutter, 10" Curved Jaw Locking Pliers with Cutter, 6" Long Nose with Wire Cutter, 9" Long Nose with Wire Cutter	KP3023074	41.90	30.95
5	5" Curved Jaw Locking Pliers with Cutter, 7" Curved Jaw Locking Pliers with Cutter, 10" Straight Jaw, 9" Long Nose with Wire Cutter, 6" Locking C-Clamp	KP3023076	53.93	39.95

7590

Combination Socket Sets



KP3050601



KP3050609

Features:

- Cases are equipped with heavy duty metal latches and hinges
- Tools are made of the highest grade materials
- **Lifetime warranty**

47 Pc. Deluxe 6 Point 1/4" Drive Socket Set

- 10 Standard sockets 3/16-9/16
- 12 Standard sockets 4mm-14mm
- 12 Hex bit sockets 1/8-5/16 & 3mm-8mm
- 6 Screwdriver bits 5/32, 7/32, 9/32, #0, #1, #2

23 Pc. 1/2" Drive 12 pt. Socket Set

- 10" Pear-head ratchet and 15" breaker bar
- 3", 6", and 10" Extensions
- U-joint and 2 adapters, 1/2" x 3/8" and 1/2" x 3/4"
- 15 Standard depth sockets sizes 3/8" through 1-1/4"

Number of Pieces	Drive Size	Order No.	Regular Price	SALE
23	1/2"	KP3050609	193.18	144.95
47	1/4"	KP3050601	197.32	147.95

*** Available while supplies last**

24991

Heavy Duty Snap Ring Plier Set



Pliers supplied with spring ratchet lock assembly, which allows the ring to be compressed or expanded with gradual adjustments which lock at the desired size without continued pressure on the handles**Set Includes:**Internal snap ring pliers: min. opening 5/16, max opening 1-13/32, OAL 9-1/2External snap ring pliers: min. opening 11/32, max. opening 1-17/32, OAL 9-1/2**Tips Included:**

- 90º x .108 Dia. angle tip
- .120 Dia. straight tip
- 15º x .120 Dia. angle tip
- 45º x .120 Dia. angle tip
- 90º x .120 Dia. angle tip
- .108 Dia. straight tip
- 15º x .108 Dia. angle tip
- 45º x .108 Dia. angle tip

Order No.	Regular Price	SALE
KP30PL529	262.76	196.95

24997

4 Pc. Mini Pick & Hook Set

Bi-Mold Comfort Grip Handles



- Bi-mold handles provide comfortable grip, reducing hand fatigue
- Use for scribing, alignment, o-ring removal, and parts cleaning
- Small size makes them ideal for hard to reach work surfaces
- **Contents:** straight pick, 45º bent tip pick, 90º bent tip pick, full semi-circular hook
- Lifetime warranty

Order No.	Regular Price	SALE
KP3040201	33.30	24.95

7549

Ratchets



- Pear style operates as a 36-tooth action, with 4-1/2º arc swing
- Heat treated chrome plated vanadium steel
- Flex head features 180º swivel
- All ratchets are reversible
- Lifetime warranty

Drive Size	Overall Length	Head Style	Handle Type	COO	Order No.	Regular Price	SALE
1/4"	5"	Round, Pear, Flex Head, & Open Head	Smooth	Taiwan	KP3030001	28.01	20.95
3/4"	20"	Narrow Pear	Plain	China	KP30H51B	192.85	144.95
3/8"	9 3/4"	Narrow Pear	Smooth	USA	KP30B52EHFB	82.55	61.95

7598

Hex, Torx® & Balldriver Socket Sets



- Polished chrome finish on a rail and clips
- Standard, metric and Torx®
- High polished chrome finish
- Bits are provided in black oxide finish
- Lifetime warranty

Drive Size	Set Includes	Type	Order No.	Regular Price	SALE
3/8"	4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm-3/8" Drive - Metric Socket Set	Hex Drive Set	KP3031904	56.45	41.95
1/2"	8 mm-19 mm-1/2" Drive - Metric Hex Bit Socket Set	Hex Drive Set	KP3032904	88.88	66.95
1/4", 3/8", 1/2"	T25, T27, T30, T40, T45, T47, T50 Torx Bits	Torx Set	KP3031912	70.99	52.95
1/4", 3/8", 1/2"	T40, T45, T50, T55, T60-1/2" Drive - Socket Drive Torx Bit Set	Torx Set	KP3032908	71.60	53.95

22450

72 Pc. Tools Bits Set



Features:

- S2 material for higher torque, optimum durability and performance
- All parts are engineered and produced according to ANSI standard
- The set also includes a magnetic bit holder allowing for quick change of driving bits
- Folding case design is compact and robust with pivoting dual bit holders that allow for easy and quick access to the accessories
- Industrial case is made from a highly durable, plastic material

Set Includes	Order No.	Regular Price	SALE
Bits included: Hex, Phillips, Square, Slotted, Pozi-Drive, Torx®, Nut Drivers, Magnetic Holder, Cones in 1 & 2" lengths	KP3024900	90.14	67.95

24984

Utility Knives

with Autoload Quick Blade



- Heavy duty .025" thick 2 notch blades
- Autoload knife features quick blade change and loading with no disassembly

Order No.	Regular Price	SALE
KP3040052	22.32	16.95

25009

PROTO 18 Pc Small Ring Plier Set with Replaceable Tip



- Includes one internal and one external pliers
- Convenient blow-molded carrying case includes storage for spare rings
- Custom grip handles for added comfort
- Contains 16 interchangeable tips
- Covers ring range: external 1-1/2" - 3-3/4" internal 2-7/16" - 4"
- Spring loaded ratchet mechanism
- Pliers overall length 9-1/2"

MADE IN USA

Tip Diameter	Model No	Order No.	Regular Price	SALE
0.120"	J361	**KP4230760**	186.76	**148.95**

7082

PROTO 7 Pc XL Hex Bit Set 3/8" Drive

- Set includes socket bar and socket clips
- Extra long bits for additional reach



MADE IN USA

Model No	Order No.	Regular Price	SALE
J4990-7XL	**KP4280655**	102.81	**81.95**

7134

PROTO Drive Extensions

Full Polish



- Extensions help provide access to fasteners in areas that might otherwise be difficult to reach

MADE IN USA

Drive Size	Overall Length	ManufacturerNo	Order No.	Regular Price	SALE
1/4"	2"	J4759	**KP4240525**	8.43	**6.80**
1/4"	3"	J4760	**KP4240530**	11.41	**9.10**
1/4"	6"	J4761	**KP4240535**	11.93	**9.55**
3/8"	3"	J5260	**KP4240565**	12.46	**10.00**
3/8"	6"	J5260-06	**KP4240570**	15.74	**12.60**
3/8"	8"	J5261	**KP4240575**	17.18	**13.75**
3/8"	12"	J5262	**KP4240580**	19.06	**15.25**
1/2"	2 1/2"	J5460	**KP4240600**	15.80	**12.65**
1/2"	5"	J5461	**KP4240605**	18.95	**15.15**
1/2"	10"	J5463	**KP4240610**	24.06	**19.25**
1/2"	20"	J5464	**KP4240615**	39.90	**31.90**

7240

Transfer Punch Set

With Indexed Stand1/2" thru 1" by 64ths • 33 Punches



- Heat treated tempered steel
- Black oxide finish

Order No.	Regular Price	SALE
KH55NTP33	116.81	**87.95**

7915

PRM PRO Mill Hand Files- Professional Grade



- Excellent for a wide-range of applications
- Used for sharpening, lathe work, draw filing, and typical general-purpose applications
- Three cuts: Bastard for coarse filing, 2nd cut for moderate stock removal and Smooth for finishing
- 100% warranty against manufactures defect

	2nd Cut			Bastard			Smooth		
Overall Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	-	-	-	**PR0410104**	4.38	**3.10**	**PR0410204**	5.25	**3.65**
6"	**PR0410006**	5.56	**3.90**	**PR0410106**	4.48	**3.15**	**PR0410206**	5.61	**3.95**
8"	**PR0410008**	6.95	**4.90**	**PR0410108**	5.61	**3.95**	**PR0410208**	7.06	**4.95**
10"	**PR0410010**	8.45	**5.95**	**PR0410110**	7.78	**5.95**	**PR0410210**	9.48	**6.65**
12"	**PR0410012**	11.43	**8.00**	**PR0410112**	11.07	**8.95**	**PR0410212**	13.18	**9.25**
14"	-	-	-	**PR0410114**	17.10	**11.95**	**PR0410214**	21.17	**14.85**

28638

PROTO 11 Pc 1/4" and 3/8" Drive Torx® Bit Set

Includes:

- T10 to T50 (full polish)
- 2 Bit holders
- Pouch

Note: Not for impact applications



MADE IN USA

Model No	Order No.	Regular Price	SALE
J5239P	**KP4250875**	34.42	**27.55**

7061

STANLEY 4 Pc. Bi-Material Pliers Set



- Pliers set designed for grasping, bending and cutting
- Slip-resistant bi-material handle for a comfortable grip
- Drop-forged steel is strong and durable
- Meets ANSI specifications

Set Includes:

- 8" Slip Joint
- 7" Diagonal
- 8" Linesman
- 8" Long Nose

Model No	Order No.	Regular Price	SALE
84-058	**KP433026**	46.54	**41.89**

7700

wiha Soft Grip Side Drive Balldriver T-Handles

- Soft Grips for incredible comfort
- Chrome-V-Moly Super Tool Steel
- Industrial Black Finish Blades
- Ergonomic Shape For Max Power
- Ball and Hex Drive (based on size)



Hex Drive only			
Ball End Size	Order No.	Regular Price	SALE
5/64"	KN5433418	6.47	5.20
3/32"	KN5433420	6.47	5.20
7/64"	KN5433422	6.75	5.40
1/8"	KN5433424	6.75	5.40
9/64"	KN5433426	6.75	5.40

Dual Drive- Ball and Hex			
Ball End Size	Order No.	Regular Price	SALE
5/32"	KN5433428	6.75	5.40
3/16"	KN5433430	7.56	6.05
7/32"	KN5433432	8.60	6.95
1/4"	KN5433433	9.93	7.95
5/16"	KN5433439	12.23	9.95
3/8"	KN5433440	16.97	13.95

7996

wiha Terminator Impact Insert Bits

- Special energy absorbing dual material design
- Up to 30 times impact performance over standard bits
- Standard 1/4" drive, 1.14" OAL
- Wiha enhanced bi-material torsion zone
- Precision heated treated & premium CVM tool steel
- **Sold in 2 Pc. Packs**



Size	Bit Style	Order No.	Regular Price	SALE
#2	Phillips	KN5476802	4.73	3.65
T40	Torx	KN5476817	4.73	3.65
#1	Square	KN5476838	4.73	3.65
#3	Square	KN5476840	4.73	3.65

8001

wiha Cushion Grip Equipment Screwdriver Sets

- Precision machined exact fit phillips tips
- Heavy duty hex blade of wiha crm-72 tool steel
- Through hardened for maximum durability
- Hard chromed finish, best wear & corrosion resistance
- Molded on cushion grips



KN5430299

Number of Pieces	Sizes Included	Order No.	Regular Price	SALE
5	Slotted: 3 mm, 4 mm, 6.5 mm, Phillips: #1, Phillips Measure Up #2	KN5430295	49.59	39.70
8	Slotted: 3 mm, 4 mm, 5.5 mm, 6.5 mm, 8 mm, Phillips: #1, #2, #3	KN5430298	82.55	65.95
20	Slotted: 3, 4, 5.5, 6.5, 8 mm, Phillips: #0, #1, #2, Square: # 1, #2, #3, PoziDriv: #1, #2, Torx: T6, T8, T10, T15, T20, T25, T30	KN5430299	174.92	139.95

25498

wiha Slotted & Phillips Screwdrivers

- 5 Pc. Set slotted/phillips: slotted: 5.5, 6.5, 8.0mm; phillips: 1, 2 with non-slip grip extra heavy duty
- 8 Pc. Set slotted/phillips: slotted: 3.0-8.0mm; phillips: 1, 2, 3 with soft finish cushion grip



KN5430298



KN5453390

Number of Pieces	Order No.	Regular Price	SALE
5	KN5453390	106.68	84.95

25518

wiha TORX® & TorxPlus® Wing Handle Sets

- **TORX:** T6, T7, T8, T9, T10, T15, T20 & metal stand
- **TORXPlus:** IP6, IP7, IP8, IP9, IP10, IP15, IP20 & metal stand



KN5436592



KN5436590

Number of Pieces	Driver Style	Order No.	Regular Price	SALE
7	Torx	KN5436590	26.88	21.50
7	TorxPlus	KN5436592	26.88	21.50

25522

IRWIN VISE-GRIP "The Original" Locking Pliers

- Curved and straight jaws
- Wire cutters available
- Tremendous pressure applies when closed
- Guarded release trigger to protect against accidental release
- Hardened teeth to grip from any angle



Curved						
Overall Length	Jaw Capacity	Jaw Thickness	Wire Cutter	Order No.	Regular Price	SALE
4"	15/16"	1/4"	Yes	KX504WR	16.98	11.95
5"	1 1/8"	1/4"	Yes	KX505WR	23.93	16.95
7"	1 1/2"	5/16"	Yes	KX507WR	24.56	16.95
7"	1 5/8"	5/16"	-	KX507CR	24.56	16.95
10"	1 7/8"	3/8"	Yes	KX5010WR	25.01	17.95
10"	1 7/8"	3/8"	-	KX5010CR	25.01	17.95

Straight						
Overall Length	Jaw Capacity	Jaw Thickness	Wire Cutter	Order No.	Regular Price	SALE
7"	1 5/16"	5/16"	No	KX507R	24.56	16.95
10"	1 3/4"	7/16"	No	KX5010R	25.01	17.95

6796

BONDHUS 22 Pc. Silver & Gold Inch/Metric Set

- 14K Gold plated & Brightguard® plated
- Plating for corrosion protection and to differentiate the metric set from the inch set
- 0.50 thru 3/8 and 1.5mm thru 10mm metric



Sizes Included	Order No.	Regular Price	SALE
.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", 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	KN5320399	64.32	39.95

10718

GENERAL 5 Pc. Center Punch Set

- Points are ground to size for maximum strength and penetration
- Stamped with size for quick identification
- Knurled body



Order No.	Regular Price	SALE
NE50SPC74	23.53	18.95

6647

APEX Phillips Bits



- Meets the most stringent government and miliatry specifications
- Precise with fasteners
- Increased longer lasting up to 10x's

Tip Size	Drive Size	Overall Length	Model No	Order No.	Regular Price	SALE
#1	1/4"	1"	440-1X	KW7060015	1.36	1.10
#2	1/4"	1 1/2"	440-215X	KW7060020	2.69	2.20
#2	1/4"	2"	440-22X	KW7060025	2.76	2.25
#2	1/4"	1"	440-2I	KW7060030	1.67	1.40
#2	1/4"	1"	440-2X	KW7060035	1.30	1.10
#3	1/4"	1"	440-3X	KW7060040	1.30	1.10
#4	1/4"	1 5/16"	440-4X	KW7060045	4.70	3.85
#2	5/16"	1 1/4"	480-2X	KW7060065	2.53	2.15
#3	5/16"	1 1/4"	480-3X	KW7060075	2.53	2.15

6465

STANLEY Folding Utility Knife



- One-handed open/close
- Tool-free blade changes
- Aluminum design for durability and light weight
- Stainless-steel belt clip for convenience
- Accepts standard utility and hook blades

Overall Length	Blade Length	ManufacturerNo	Order No.	Regular Price	SALE
5 3/4"	2 7/16"	10-855	KP431950	19.27	17.34

7745

Wiss Shears & Scissors

Easy Snip Utility Shears



LA50WEZSNIP

- Quality 420 stainless steel blade
- Cushion grip handle
- Thumb latch for secure storage
- Lightweight
- Wire cutting notch in lower blade

Heavy Duty Industrial Shears



LA50175E5

- Hot drop forged polished blades, made of quality cutlery steel
- Black handles

Electrician's Scissors



LA5020
LA5022

- Double stripping notch for 19 gauge (.035) and 23 gauge (.022) wire
- Hot drop forged solid steel & nickel plated
- Scraper and file on back edge of blade

Overall Length	Blade Length	Type	Order No.	Regular Price	SALE
5"	1 3/4"	Electrician's Scissors	LA50175E5	28.83	23.05
8 1/2"	4"	Easy Snip Shears	LA50WEZSNIP	20.18	16.15
10 1/2"	4 3/4"	Heavy Duty Industrial Shears	LA5020	57.67	46.15
12 1/2"	6"	Heavy Duty Industrial Shears	LA5022	66.32	52.95

25564

Young Bros. Heavy Duty Combination Stamps Sets



- 36 Characters: 27 Letters (A-Z), 9 (Numbers)

Character Size	Square Size	Overall Length	Weight	Order No.	Regular Price	SALE
1/32"	1/4"	2 3/8"	2 lbs	KF5000363	249.83	199.95
1/16"	1/4"	2 3/8"	2 lbs	KF5001363	197.65	157.95
3/32"	5/16"	2 1/2"	3 lbs	KF5002363	197.65	157.95
1/8"	5/16"	21/2"	3 lbs	KF5003363	197.65	157.95
5/32"	3/8"	23/4"	4 lbs	KF5004363	222.52	177.95
3/16"	3/8"	2 3/4"	4 lbs	KF5005363	234.42	187.95
1/4"	7/16"	3"	6 lbs	KF5006363	270.11	215.95
5/16"	1/2"	3"	8 lbs	KF5007363	337.97	269.95
3/8"	9/16"	3 1/8"	11 lbs	KF5008363	387.99	309.95
1/2"	3/4"	3 3/4"	28 lbs	KF5009363	617.54	493.95

8077

APEX Hex Drive Magnetic Nut Setters



- Proprietary steel and heat treat process yields greater strength and longer bit life
- Cutting-edge machining process results in tighter tolerances and superior Product consistency
- Better and more consistent fit to fasteners resulting to better torque transfer

Tip Size	Drive Size	Overall Length	Model No	Order No.	Regular Price	SALE
3/16"	1/4"	3"	M6N-0806-3	KW7061015	36.46	30.95
1/4"	1/4"	2"	M6N-0808-2	KW7061020	35.12	29.95
1/4"	1/4"	3"	M6N-0808-3	KW7061025	38.01	31.95
5/16"	1/4"	3"	M6N-0810-3	KW7061030	39.45	32.95
5/16"	1/4"	6"	M6N-0810-6	KW7061035	46.87	39.95
3/8"	1/4"	3"	M6N-0812-3	KW7061040	43.67	36.95
3/8"	1/4"	6"	M6N-0812-6	KW7061045	52.02	43.95
7/16"	1/4"	3"	M6N-0814-3	KW7061050	46.35	38.95
1/2"	1/4"	3"	M6N-0816-3	KW7061055	48.20	39.95

6460

GEARWRENCH 13 Pc. SAE Combination Ratcheting Wrench Set



- Small ratcheting box end head design
- Moves a fastener along any length of threaded rod without removing the wrench from the fastener
- 72 Tooth ratchet - 5º swing
- Fully polished
- Includes: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 and 1" standard length combination Gearwrenches and a molded wrench rack
- Lifetime manufacturer's warranty

Order No.	Regular Price	SALE
KP659312	255.42	216.95

6632

KLEIN TOOLS Diagonal Cutting Pliers



- High-leverage design
- Rivet is closer to the cutting edge for 36-percent greater cutting power than other plier designs
- Short jaws and beveled cutting edges permit close cutting of wire
- Induction-hardened cutting knives for long life
- Hot-riveted joint ensures smooth action and no handle wobble
- State-of-the-art, dual-material Journeyman™ handles provide a better grip without sacrificing tool strength and durability
- Hard, black material for toughness and durability
- Soft material on outer surface for comfort and a firm grip
- Color-coded handles allow quick identification of tool
- Custom, US-made tool steel

Overall Length	Jaw Width	Jaw Length	ESD Safe	Manufac-turerNo	Order No.	Regular Price	SALE
8"	1 3/16"	13/16"	Yes	D228-8	KP6011220	44.06	36.95
8"	1 3/16"	13/16"	No	D2000-28	KP6011210	54.59	45.95
8 1/2"	1 3/16"	13/16"	No	J228-8	KP6011270	56.16	50.55

28954

KLEIN TOOLS Lineman's Pliers

- Cuts ACSR, screws, nails and most hardened wire
- High-leverage design. 46-percent greater cutting and gripping power
- Unique handle tempering helps absorb the "snap" when cutting wire
- Precision-hardened plier head
- New England nose type



KP6011025



KP6011055



KP6011060

Overall Length	Jaw Width	Jaw Length	Jaw Thickness	Side Cutter	Handle Style	ManufacturerNo	Order No.	Regular Price	SALE
9"	1-1/4"	1-19/32"	5/8"	Yes	Hvy Plastic Dip Red	HD2000-9NE	KP6011055	70.20	59.95
9"	1-1/4"	1-19/32"	5/8"	Yes	PL Dip Glow in Dark	D20009NEGLW	KP6011025	70.20	59.95
9 1/2"	1-1/4"	1-19/32"	5/8"	Yes	Journeyman Blk/Blue	J2000-9NE	KP6011060	68.66	57.95

28921

Die Setter Bars



- A practical shop tool for quick separation of punch and die holder

MADE IN USA

Overall Length	Thickness	Order No.	Regular Price	SALE
18″	5/8″	**KS517035**	41.27	**34.95**
30″	3/4″	**KS517037**	57.45	**48.95**

23682

PRM PRO Pinch Bars



- Line-up pry bars are used for moving and adjusting metal or wood
- Tapered on one side and flat on the other

Overall Length	Order No.	Regular Price	SALE
14″	**LC715031**	9.52	**6.65**
18″	**LC717794**	11.00	**7.70**
20″	**LC715032**	12.44	**8.70**
24″	**LC717795**	14.31	**9.95**

6947

MAYHEW Punch & Chisel Sets

- Pin Punch Set - 45RC: 5 punches, 1/8, 5/32, 3/16, 1/4, 5/16″
- Cold Chisel Set - 15RC: 1/4, 5/16, 3/8, 1/2, 5/8, 3/4″

Punch & Chisel Set - 14RC

- 3/8″ Center punch
- 1/8, 5/32, 3/16 & 7/32″ Solid punches
- 1/8, 5/32, 13/64 & 3/16″ Pin punches
- 7/16, 5/8, 3/4 & 7/8″ Solid chisels
- 3/8″ Prick punch



KS5045RC



KS5015RC



KS5014RC

All Sets Feature:

- High-grade S-2 steel for superior tensile strength and toughness
- Full shank heat treating
- Black oxide finish
- Supplied in vinyl pouch
- Lifetime warranty

Number of Pieces	Type	Sizes Included	Case	Model No	Order No.	Regular Price	SALE
5	Pin Punch Set	1/8 x 4-3/4, 5/32 x 5, 3/16 x 5-1/4, 1/4 x 5-3/4, 5/16 x 6	Vinyl Pouch	-	**KS5045RC**	42.57	**31.95**
6	Chisel Set	1/4″ x 5″, 5/16″ x 5″, 3/8″ x 5 1/2″; 1/2″ x 6″; 5/8″ x 6 1/2″; 3/4″ x 7″	Vinyl Pouch	60560	**KS5015RC**	74.66	**55.95**
14	Punch & Chisel Set	1/4″ x 5″; 3/8″ x 5 1/2″; 1/2″ x 6″; 5/8″ x 6 1/2″; 3/4″ x 7″	Vinyl Pouch	14RC	**KS5014RC**	147.40	**110.95**

30676

PRM PRO Dead Blow Hammers



- Steel shot inside head eliminates rebound, conserving energy of each blow
- High-impact poly jacket surrounds the all-steel handle* and head, preventing marring of surfaces
- Diamond textured handle for non-slip grip
- Made with lead-free and 3P phthalate-free materials
- Lifetime warranty against manufacture defects

Head Weight	Head Diameter	Head Length	Overall Length	Order No.	Regular Price	SALE
1LB	1-7/16	3-5/8	11-3/4	**PR0210100**	26.14	**18.30**
1.5LB	1-7/8	3-5/8	12	**PR0210150**	30.50	**21.35**
2LB	2	4	13	**PR0210200**	34.86	**24.40**
2.5LB	2-1/4	4-1/4	14-1/2	**PR0210250**	40.41	**28.30**
3LB	2-1/2	4-5/8	15	**PR0210300**	29.61	**20.95**
3.5LB	2-5/8	5	15-1/2	**PR0210350**	31.78	**22.25**
6LB	3-5/8	6	36-1/2	**PR0210600**	106.04	**73.95**
10LB	4	8	36-7/8	**PR0211000**	141.37	**98.95**

*** 6 lbs and 10 lbs have yellow fiberglass handle**

22449

PROTO 38 Pc. Insert - Power Bit Set



- Contains: #1, #2, #3 phillips®, #1, #2 pozidrive, 4F-5R, 6F-8R, 8F-10R, 10F-12R, 12F-14R, 14F-16R slotted, T6, T7, T8, T9, T10, T15, T20, T25, T30, T40 torx, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16 socket head, #0, #1, #2, #3 square recess, 1/8, 5/32, 3/16 clutch, magnetic bit holder, power bit holder
- Magnetic tray to help keep pieces in place
- Not for use on impact applications

Model No	Order No.	Regular Price	SALE
J61906	**KP4250865**	115.73	**92.95**

7155

Eklind Balldriver Standard & Metric Sets



- Standard & Metric-Long Arm
- Alloy steel- heat treated for optimum strength and ductility
- Sets come in plastic holder that firmly retains the keys in size marked holes
- Balldriver provides a 25° angle entry

Number of Pieces	Sizes Included	Order No.	Regular Price	SALE
9	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	**KM5013609**	27.13	**16.95**
13	.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″	**KM5013213**	32.57	**20.95**
22	.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, 1.5, 2, 2.5, 3, 4, 5, 6, 8, & 10	**KM5013222**	59.70	**38.95**

6594

STANLEY 12 Pc. Hi-Speed Ratcheting Screwdriver Set



- 4:1 Gear Ratio: For increased speed
- Ratcheting Mechanism for forward or reverse driving
- Bit Storage in Handle: Holds 12 bits
- Bi-Material Handle

Model No	Included	Order No.	Regular Price	SALE
STHT60240	Slotted 3/16″, 1/4″, 5/16″; Phillips P1, P2, P3; Square SQ1, SQ2, SQ3; Star T10, T15, T25	**KP435002**	40.35	**36.30**

7679

TITAN 148 Pc. Master Security Bit Set



Enormous selection of the most popular, and hard to find bits for many different applications

- (13) 2″ Bits: Pozi drive #2, #3; square S2; torx T10-T40; phillips #1- #3
- (13) 3″ Bits: SAE hex 3/16″, 1/4″; slotted 1/4″; phillips #1- #3; square S1-S3
- (120) 1″ Bits: pozi 0-4; tri-wing 1-4; security star T10-T50; spline M5, M6, M8; phillips #00 - #4; spanner 4-10; slotted 2-8mm; metric hex 1.5-8mm; security torx T5-T45; SAE hex 1/16 -1/4″; security SAE hex 2-6mm; torx T5-T45; square #0 - #3; four wing 6-10; Clutch #1 - #3
- 1/4″ Drive 1″ socket adapter
- 3-1/2″ Magnetic bit holder
- Quick release bit holder

Order No.	Regular Price	SALE
KP8216148	91.65	**63.95**

7882

*** Available while supplies last**

TITAN Folding Knife with Locking Jaw Wrench



- Folding knife with locking blade
- Blade length: 3″
- Jaw opening: 0.25″ - 0.75″
- Stainless steel construction

Length Closed	Length Open	Order No.	Regular Price	SALE
6″	9″	**KP8211110**	37.95	**26.60**

Available while supplies last

7904

PROCHECK Economy Depth Micrometers



- Precision ground base
- Satin-chrome finish
- Ratchet thimble
- Fitted case and adjusting wrench
- .001" Graduation
- Bottom change rod

Measuring Range	Base Length	Order No.	Regular Price	SALE
0-4"	2 1/2"	**NB60DM042**	87.36	**60.95**
0-6"	4"	**NB60DM064**	82.02	**65.95**

28699

Mitutoyo Coolant Proof Micrometers

Series 293 - with Dust/Water Protection Conforming to IP65 Level



- No data output
- IP65 protection level, enabling use in environments exposed to cutting oil, etc **-note:** anti-corrosion treatment is required after use
- .00005"/0.001mm Resolution
- Carbide tipped measuring faces
- Uses SR44 battery (included)
- Auto power ON/OFF function
- Standard included on sizes over 1"/25mm
- Supplied in fitted case
- Replacement battery order number is KA56357BP3

Minimum Measurement	Maximum Measurement	Thimble Type	Accuracy	Order No.	Regular Price	SALE
0"	1" / 25.4 mm	Ratchet	±.0.00005"	**MT80293-344-30**	267.80	**240.95**
0"	1" / 25.4 mm	Friction	±.0.00005"	**MT80293-348-30**	267.80	**240.95**
3" / 76.2 mm	4" / 101.6 mm	Ratchet	± 0.0001"	**MT80293-347-30**	417.15	**374.95**
1"	2"	Ratchet	±.0.00005"	**MT80293-345-30**	294.58	**265.95**
2" / 50.8 mm	3" / 76.2 mm	Ratchet	±.0.00005"	**MT80293-346-30**	386.25	**347.95**

4157

Mitutoyo QuantuMike Digital Outside Micrometers



- Resolution: 00005" / 0.001mm
- IP65 waterproof rated
- Quick acting spindle- 2X speed of standard spindle micrometers
- Ratchet thimble
- Carbide measuring
- Supplied with fitted plastic case and certificate of inspection

Measuring Range	Order No.	Regular Price	SALE
0-25.4 mm	**MT80293-185-30**	275.01	**235.95**

30920

PROCHECK Outside Micrometers



- Carbide tipped
- Lock nut
- Supplied with fitted case and adjusting wrench
- Satin chrome finish
- Heat-insulated grip plate
- Ratchet thimble
- 2" and larger supplied with standards

0.001"				
Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
0"	1"	**NB60CM001**	27.18	**19.05**

0.0001"				
Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
0"	1"	**NB60CRM1**	30.88	**21.65**
1"	2"	**NB60CRM2**	50.38	**32.75**
2"	3"	**NB60CRM3**	41.36	**28.95**
3"	4"	**NB60CRM4**	45.80	**32.05**
4"	5"	**NB60CRM5**	43.69	**30.95**
5"	6"	**NB60CRM6**	47.79	**33.45**
6"	7"	**NB60CRM7**	72.44	**47.10**
7"	8"	**NB60CRM8**	84.76	**58.95**
8"	9"	**NB60CRM9**	112.14	**77.95**
9"	10"	**NB60CRM10**	125.84	**81.80**
10"	11"	**NB60CRM11**	132.69	**92.95**
11"	12"	**NB60CRM12**	140.90	**98.95**

4733

Starrett Tubular Inside Micrometers



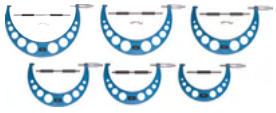
- 3/8" Diameter rods
- Interchangeable anvils
- Hardened and ground anvils
- Handle
- Complete with carrying case
- .001" Graduation

Measuring Range	Accuracy	Graduation	Order No.	Regular Price	SALE
1-1/2"-8"	0.0001"	0.001"	**MV7053050**	462.47	**415.95**
1-1/2"-12"	0.0001"	0.001"	**MV7053052**	555.17	**499.95**
4"-24"	0.0001"	0.001"	**MV7053054**	719.97	**647.95**
4"-32"	0.0001"	0.001"	**MV7053055**	797.22	**716.95**
4"-40"	0.0001"	0.001"	**MV7053056**	867.26	**780.95**

4961

Fowler Micrometer Sets

0 - 6", 0 - 8", or 0 - 12"



- Hammertone blue baked enamel finish
- Microfine graduations on satin chrome finish
- Carbide-tipped measuring faces (.256" dia.)
- Graduation .0001"
- Flatness .00003"
- Quick, easy zero adjustment on sleeve
- Positive lever locking clamp
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Anvil & spindle hardened and precision ground with microlap finish on tips
- Meets or exceeds federal accuracy specs
- Includes standards for all sizes over 1", wrenches, and wooden case

Measuring Range	Model No	Order No.	Regular Price	SALE
0-6"	-	**NA5552215006**	458.91	**412.95**
0-12"	52-215-012-1	**NA5552215012**	1391.22	**1251.95**
6" - 12"	52-215-612-1	**NA5552215612**	917.81	**825.95**

3517

Fowler Long Range Dial Calipers



- .100" Per revolution
- .001" Dial graduations
- Covered rack
- Depth rod
- Hardened stainless steel rack
- Supplied in shop-hardened case

Measuring Range	Order No.	Regular Price	SALE
0-18"	**NA5552008018**	301.17	**270.95**
0-24"	**NA5552008024**	364.96	**327.95**

3667

Fowler Shockproof Dial Calipers

with Thumb Roll



- 4-Way measuring
- Solid stainless steel construction
- Silky smooth movement throughout
- .100"/2mm Range per revolution
- .001"/0.02mm Reading dial face
- Tough shockproof design
- Supplied in shop-hardened case

Measuring Range	Order No.	Regular Price	SALE
0-6"	**NA5552008706**	105.82	**94.95**
0-6"	**NA5552008707**	105.82	**94.95**
0-8"	**NA5552008708**	127.07	**113.95**
0-12"	**NA5552008712**	170.86	**153.95**

3708

Fowler Electronic Calipers



- Stainless steel frame
- Large easy-to-read display
- Resolution: .0005"/0.01mm
- Direct inch/metric conversion
- 4-Way measuring
- Complete in case

Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	**NA55541011501**	56.58	**50.95**
0-12" / 0-300 mm	**NA55541013001**	129.24	**115.95**

3791

INSIZE 6" Dial Caliper



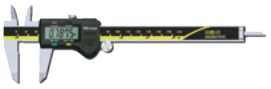
- Graduation .001"
- Shockproof dial
- Stainless steel
- Supplied with certification

Model No	Measuring Range	Order No.	Regular Price	SALE
1311-12	0 - 12"	**SZ20131112**	166.86	**149.95**
1311-6	0-6"	**SZ2013116**	74.98	**66.95**
1311-8	0 - 8"	**SZ2013118**	99.60	**89.95**

3939

Mitutoyo Digimatic Calipers

Non-SPC Output with Absolute Encoder



- Zero-setting of the display position (incremental mode)
- Large LCD digits
- .0005" / 0.01mm Resolution
- Scale contamination detection function

Specifications: Function: ORIGIN Setting ZERO/ABS, ON/OFF - Inch/ Metric

Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	**MT80500-196-30**	189.52	**149.95**
0-8" / 0-200 mm	**MT80500-197-30**	272.95	**245.95**
0-12" / 0-300 mm	**MT80500-193-30**	543.43	**488.95**

4126

PROCHECK PREMIUM Premier Electronic Calipers



- 3-Way measurement
- Inch/metric conversion
- Hardened stainless steel jaws and depth rod
- Floating zero for comparative measurements
- No SPC output
- Certificate of Inspection included
- 1 Year Warranty

Measuring Range	Order No.	Regular Price	SALE
0-6"/150mm	**PC20EDC6**	73.20	**47.60**
0-8"/200mm	**PC20EDC8**	81.02	**56.95**
0-12"/300mm	**PC20EDC12**	135.12	**94.95**

4572

PROCHECK PREMIUM Stainless Steel Dial Calipers



- Covered rack for longer caliper life, keeps chips out
- Measuring face hardened stainless, ground and lapped
- Satin-chrome finish
- Complete with fitted case
- Certificate of Inspection included
- 1 Year Warranty

Measuring Range	Graduation	Order No.	Regular Price	SALE
0-6″	0.001″	PC21CDC6	67.10	43.65
0-6″	0.001″	PC21CDC6B	67.10	43.65
0-6″	0.001″	PC21CDC6CJ	121.86	85.30
0-6″	0.001″	PC21CDC6EM	71.21	46.30
0-150 mm	0.02 mm	PC21CDC6M1	71.21	46.30
0-6″/0-150mm	0.001″ / 0.02 mm	PC21CDC6M2	94.49	65.95
0-8″	0.001″	PC21CDC8	67.56	47.30
0-12″	0.001″	PC21CDC12	97.83	72.95

†PC21CDC6EM Metric on scale only

4812

PROCHECK Micrometer Stand

- Provides a desirable measuring position and angle for inside and outside micrometers and many other instruments



Order No.	Regular Price	SALE
NB64247000	31.67	23.75

4713

PROCHECK Premium Quill Clamp Indicator Holder

- Heavy duty construction
- CNC machined body
- Red anodized finish



Order No.	Regular Price	SALE
PC21QC1	69.65	48.95

4775

PROCHECK Axial Support with Dovetail - 3/8″ Shank



- Triple Joints allow for multiple test indicator positions
- Dovetail or 5/32″ Stem Mount

Order No.	Regular Price	SALE
PC21AS38DT	24.65	17.25

4453

PROCHECK Test Indicator Accessory Kit



- Includes: Height Gage Bar with Universal Dovetail; 3/8″ clamp, Universal Dovetail Holder with 1/4″ Shank; Axial support with 3/8″ shank; 3/8 to 5/32″ bushing and 5/32″ Dovetail stem
- Supplied in convenient case with slot for test indicator
- 1 Year Warranty

Order No.	Regular Price	SALE
PC21TIAKT1	70.45	49.35

4829

PROCHECK Caliper Anvil Attachment

- Converts micrometer anvil attachments for use on 4″, 6″ or 8″ calipers



Order No.	Regular Price	SALE
NB75Z9050	30.97	26.30

4707

PROCHECK Universal Test Indicator Dovetail Stem

- Universal 5/32″ stem fits most test indicators with dovetail mounts



Order No.	Regular Price	SALE
PC21DTS532	27.13	19.00

4869

PROCHECK Small Hole Gage Set

1/8"-1/2" Range



- Range: .125 - .500"
- Knurled knob for size adjustment
- Gaging surface fully hardened for long life
- Extra long for gaging deep & shallow holes
- Hole size obtained by measuring over contact points with micrometer
- Case included

Order No.	Regular Price	SALE
NN40290200	23.14	16.20

4802

PROCHECK 12" Telescoping Gages



- Measure inside diameter
- Long handles for extra depth applications
- Spring loaded plunger expands within the bore
- Knurled clamp

Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
5/16"	1/2"	PC24TSG1P12	14.00	9.80
1/2"	3/4"	PC24TSG2P12	14.00	9.80
3/4"	1 1/4"	PC24TSG3P12	14.00	9.80
1 1/4"	2 1/8"	PC24TSG4P12	18.72	13.10
2 1/8"	3 1/2"	PC24TSG5P12	18.70	13.10
3 1/2"	6"	PC24TSG6P12	18.69	13.10

4368

PROCHECK 5/16"-6" Telescoping Gage Set



- Uniform contact pressure
- Self centering plungers
- Locks on any setting
- Rounded contacts
- Knurled knob on handle
- Available individually or in sets
- Bore size obtained by measuring over gage contacts with a micrometer

Order No.	Regular Price	SALE
NN40290100	26.83	18.80

4411

Starrett 567 Series Telescoping Gage Sets



- Knurled knob on handle
- Uniform contact pressure
- Locks on any setting
- Self centering plungers
- Rounded contacts
- Bore size obtained by measuring over gage contacts with a micrometer

Number of Pieces	Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
4	5/16" / 8.0 mm	2 1/8" / 54.0 mm	MV7052616	223.51	200.95
6	5/16" / 8.0 mm	6" / 150.0 mm	MV7052617	382.13	343.95

5150

CRESCENT Lufkin COMMAND CONTROL SERIES™ YELLOW CLAD TAPE MEASURE



- Matte clear protective blade coating for better visibility and durability of the blade
- Tether hole for safely working at heights
- 360-degree end hook and 12-foot standout make one-person use easier
- Anti-pinch, fingertip control feature for increased control when retracting the tape
- Protected lock button and 6-point dual material case for increased durability

Blade Length	Blade Width	Graduation	Order No.	Regular Price	SALE
16'	1-3/16'	1/16"	MZ50L1016C02	22.39	18.95
25'	1-3/16'	1/16"	MZ50L1025C02	26.87	22.95
25'	1-3/16'	1/10ths, 1/100ths, 1/16"	MZ50L1025CD02	29.86	24.95
8 m, 26'	1-3/16'	1/16"	MZ50L1025CB02	29.86	24.95
8 m, 26'	1-3/16'	1/16"/MM	MZ50L1025CME02	26.87	22.95
30'	1-3/16'	1/16"	MZ50L1030C02	34.34	28.95
35'	1-3/16'	1/16"	MZ50L1035C02	37.33	31.95
10 m, 33'	1-3/16'	1/16"/MM	MZ50L1035CME02	37.33	31.95

30815

Mitutoyo Radius Gage Sets



- Gages are stainless steel with no-glare satin finish
- Each gage is marked and have five different gaging surfaces for convex and concave radii
- All sets furnished in protective case

Number of Pieces	Minimum Radius	Maximum Radius	Order No.	Regular Price	SALE
25	1/64"	1/2"	MT80186-901	196.73	177.06
26	0.010"	0.500"	MT80186-906	198.79	169.95

4205

PRECISION BRAND 20 Pc. Poc-Kit® Feeler Gage Assortment 5" Long Blades



- Packaged in a sturdy, vinyl case with individual blade pockets and folds flat for convenience
- Contains twenty 1/2" wide blades
- Each blade is clearly etched with thickness
- Ends are rounded and edges are smooth for safety
- Contains: .001"/.025mm, .0015"/.038mm, .002"/.051mm, .003"/.076mm, .004"/.102mm, .005"/.127mm, .006"/.152mm, .007"/.178mm, .008"/.203mm, .009"/.229mm, .010"/.254mm, .012"/.305mm, .014"/.356mm, .015"/.381mm, .016"/.406mm, .018"/.457mm, .020"/.508mm, .022"/.559mm, .024"/.610mm, .025"/.635mm

Order No.	Regular Price	SALE
MA5219740	73.17	58.54

1472

Fowler INDI-X blue Electronic Indicators



- Direct inch/metric conversion
- 1"/25mm Travel
- Auto off feature
- 2-1/4" Dial face
- Lugback and 3/8" stem diameter
- Resolution .0005"/0.01mm
- Tolerance indicators
- Absolute/incremental reading
- Floating zero
- Carbide tipped point

Total Range	Order No.	Regular Price	SALE
0-1" / 0-25mm	NA5554520250	137.36	123.95
0-1" / 0-25MM	NA5554520255	121.30	108.95
0 - 1" / 0 - 25mm	NA5554520260	139.44	124.95

3654

Fowler X-TEST Horizontal Test Indicators

Features Twice the Test for Less



- .060" Range
- Dial reading: 0-15-0
- Jeweled movement
- Revolution counter
- Easy-to-read tilted dial
- Automatic reversal
- Swivel arc: 210°
- .080" tungsten carbide point
- Includes 2 dovetail stems
- Furnished in molded case

Dial Reading	Dial Face Diameter	Order No.	Regular Price	SALE
0-15-0	1 1/2"	NA5552562001	147.44	132.95
0-15-0	1.0"	NA5552562002	147.44	132.95

3775

Mitutoyo 1" Travel AGD 2 Dial Indicator



- 2-1/4" Dial
- .001" Graduation
- Lug back
- Revolution counter
- 3/8" Diameter stem

Order No.	Regular Price	SALE
MT802416S	144.20	129.95

4078

Mitutoyo Test Indicator with Ruby Stylus



- Wear characteristic improved by 50%
- Non magnetic and non conductive material enables use in EDM operations

Specifications:

- Graduation: .0005"
- Measuring range: .03"
- Accuracy: ±.0005"
- Measuring force: .07165" or less
- Contact point diameter: .79"
- Stem diameter: 3/8"

Order No.	Regular Price	SALE
MT80513-472-10E	176.13	158.95

4228

PROCHECK Z-Axis Setter with Magnetic Base



- Establish "0" reference point with built in indicator
- Positioning accuracy and repeatability .0004"/0.01mm
- 1.45"/37mm Square

Order No.	Regular Price	SALE
PC21ZAS4CNCM	220.36	154.25

29758

PROCHECK PREMIUM Procheck Electronic Indicators - Certified

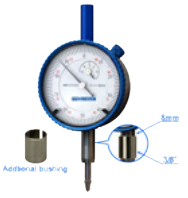


- Flat Back, 1/4" Lug Back and fitted case
- Super large LCD display for easy reading
- Certificate of Inspection Included, Standard ASME B89.1 .10M-2001
- 1 Year Warranty

Total Range	Resolution	Description	Order No.	Regular Price	SALE
1"	0.0005"	Certified	PC20E-I0112505C	82.27	57.95
1/2"	0.0005"	Certified	PC20E-I0512505C	81.42	56.95

30767

PROCHECK PREMIUM Procheck Dial Indicators - Certified



- Flat Back, 1/4" Lug Back and fitted case
- Adjustable Limit Pointers for easy Go / No-Go reading
- Revolution Counter
- Certificate of Inspection Included, Standard ASME B89.1 .10M-2001
- 1 Year Warranty

Indicator Style	Total Range	Dial Color	Dial Reading	Dial Size	Graduation	Description	Order No.	Regular Price	SALE
AGD 2	5 mm	White	-	58 mm	0.01 mm	Certified	PC21DI5805M-M1C	55.38	38.80
AGD 2	10 mm	White	0-100	2-1/4"	0.01 mm	Certified	PC21DI210M-M1C	55.38	38.80
AGD 2	25 mm	White	0-100	2-1/4"	0.01 mm	Certified	PC21DI225M-M1C	87.63	60.95

30768

Starrett Single End Edge Finder

Model 827A



- 3/8" Shank, .200" contact
- Edge finders accurately locate working edges, shoulders, grooves, center points and scribed lines
- Hardened and centerless ground to precision tolerances

Order No.	Regular Price	SALE
MV7053062	39.14	35.20

5120

Starrett 5 Pc. Wiggler Set

5828HZ Model



- Furnished with offset indicator holder and new chuck design to hold all attachments
- Four attachments adapt the tool to countless applications and are snapped in chuck without removing collet nut
- Using offset indicator holder D, the mechanic can sweep holes or OD' s for checking run-out or concentricity, establish center distances, check straightness or alignment of flat surfaces
- With point A, working centers can be accurately located

Order No.	Regular Price	SALE
MV7053064	92.70	83.40

5164

PROCHECK Electronic Z Indicator



- Axial Preset Gage
- Red lamp with light up when touched
- Use vertical or horizontally
- 13.5mm Magnet Base diameter
- .56mm Probe Face diameter

Order No.	Regular Price	SALE
PC20EZAP2M	276.63	193.95

30243

PROCHECK 36 Pc. Millionths Space Block Set



3/4" Diameter with 1/4-28 ID thread, ground, hardened and lapped. 4 Connecting screws included to form any length desired. Accuracy: ±.0002".

Consists of the following sizes:

- 9 Blocks - .101" thru .109" by .001"
- 15 Blocks - .050" thru .190" by .010"
- 9 Blocks - .200" thru 1.000" by .100"
- 1 Block - .0625"
- 1 Block - .125"
- 1 Block - 1.000"

Order No.	Regular Price	SALE
NF80PR1	65.96	46.20

4385

PROCHECK Bore Gage Setting Sets



- Accurately set any bore gage up to 6" in diameter to an accuracy of .0001"**Set includes:**
- Base anvil: 2.750" x .80"
- Adjustable anvil: 2.375" x .375" (two each)
- Internal capacity: 6"/150mm
- Depth capacity" 1"/25mm
- Centralizer capacity width: 2.625"/66.7mm
- Quick-release holder for fast adjustment

For Use With	Order No.	Regular Price	SALE
Base anvil: 2.750" x 0.80", Adjustable anvil: 2.375" x 0.375" (two each)	PC24BGSMI	515.76	360.95
Base anvil: 2.750" x 0.80", Adjustable anvil: 2.375" x 0.375" (two each)	PC24BG-SMM	562.63	393.95

4463

PROCHECK 1/4" Precision Parallel Set



- 9 Pairs - 1/4" thick, 6" long
- 2 Pc. Each: 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8 & 1-3/4"
- Accuracy ±.0002
- Made of high grade tool steel
- Hardened and precision ground

Order No.	Regular Price	SALE
NM55TPS9	120.37	83.95

4351

PROCHECK Ultra Thin Style Steel Parallels



- 20 Pair set
- Hardened to 50RC
- Parallelism .0001"
- Height .001" accuracy
- Includes fitted case
- 1/32" Thick
- Range of sizes include 1/2" thru 1-11/16" in 1/16" increments

Order No.	Regular Price	SALE
NM55UTPS20	108.23	69.95

4849

PROCHECK Tri-Block Sets

Premium 1-2-3 Block Set:



- Tolerance .0001" - .0003"
- Fitted plastic case

Tri Block Set					
Overall Width	Overall Length	Overall Height	Order No.	Regular Price	SALE
1"	2"	3"	NM52PR123	44.64	31.25

4371

PROCHECK Tri-Blocks



- Hardened 55 to 62 HRC
- Tolerance .0003" to .0005"/0.005mm to 0.010mm

Overall Width	Overall Length	Overall Height	Order No.	Regular Price	SALE
1"	2"	3"	NM52E123	19.44	13.60
25 mm	50 mm	75 mm	NM52E25M	32.73	22.90
2"	4"	6"	NM52PR246	195.80	127.30

4839

Mitutoyo Magnetic Bases



- Accepts all AGD type dial indicators, test indicators and probes with .375", 6mm or 8mm diameter stems or lug back with 1/4" diameter mounting hole
- On/off switch
- 132 Lbs holding power
- Dial indicators NOT included

Features	Order No.	Regular Price	SALE
Standard	MT807010S	158.62	142.95
Flexible Arm	MT807012-10	245.14	220.95

4168

NOGA Dial Gage Holders with Power On/Off Magnetic Base



- Top clamp holds 3/8" stem and dovetail
- Fine adjustment
- Central locking mechanism with spring loaded bearing
- NOGA dial gage holder is 3-dimensional
- Most powerful on/off magnetic base

Bottom Arm Length	Top Arm Length	Pull Force	Style	Order No.	Regular Price	SALE
4.33"	3.98"	176 lbf	Standard	**FN60DG10533**	149.59	**126.95**
4.33"	3.98"	176 lbf	Standard	**FN60DG61003**	139.83	**118.95**
12.8"	9.50"	290 lbf	Super Long	**FN60MA61003**	286.15	**242.95**
5.26"	5.24"	176 lbf	Long	**FN60MG10533**	176.50	**149.95**
5.26"	5.24"	176 lbf	Long	**FN60MG61003**	175.59	**148.95**
6.43"	4.45"	180 lbf	Extra Long	**FN60MG71003**	195.11	**165.95**

4265

Precision Brand Steel Shim Stock



- Cold rolled, low carbon steel
- Full hard (RB80 minimum) steel
- For tool and die alignment, arbor spacers and all shim applications where hardness, flatness and accuracy are required
- 1 roll per box

Thickness	Width	Length	Order No.	Regular Price	SALE
0.001"	6"	180"	**MA5216700**	59.65	**47.72**
0.0015"	6"	180"	**MA5216705**	59.65	**47.72**
0.010"	6"	180"	**MA5216710**	39.76	**31.81**
0.012"	6"	180"	**MA5216715**	42.14	**33.71**
0.015"	6"	180"	**MA5216725**	40.24	**32.19**
0.002"	6"	180"	**MA5216740**	38.46	**30.77**
0.020"	6"	180"	**MA5216750**	47.65	**38.12**
0.025"	6"	180"	**MA5216760**	48.81	**39.05**
0.003"	6"	180"	**MA5216765**	32.60	**26.08**
0.031"	6"	180"	**MA5216775**	52.21	**41.77**
0.004"	6"	180"	**MA5216780**	35.71	**28.57**
0.005"	6"	180"	**MA5216785**	34.69	**27.75**
0.006"	6"	180"	**MA5216790**	38.48	**30.78**
0.007"	6"	180"	**MA5216795**	41.99	**33.59**
0.008"	6"	180"	**MA5216800**	46.58	**37.26**

24417

NOGA Magnetic Base Indicator Holder

Model NF6160



- New double fine adjustment - Bottom: unique single direction; Top: universal swivel clamp
- Powerful ON/OFF magnetic base with 70 lbs force
- Holds 6mm, 8mm 3/8", dovetail, and back lug
- Unique central locking mechanism with Noga designed spring loaded bearing
- Five axis holder
- Instantly fastens in any position
- Fast and easy to set up gauges into required position
- Black finished arms
- Bottom arm measures 56mm
- Top arm measures 51mm
- Indicator NOT included

Order No.	Regular Price	SALE
FN60NF6160	133.58	**113.95**

4281

ProCheck Magnetic Bases



- Accepts all AGD dial indicators
- Permanent magnet (110 lb pull)
- On/off lever releases magnet
- Horizontal and vertical positioning capability
- Chrome rods and column
- V-Grooved base for mounting on cylindrical parts
- Accepts lug back groups 1, 2, 3 and 4
- Base size 2.36"L x 1.90"W x 2.00"H

Description	Order No.	Regular Price	SALE
Standard	**PC21300**	25.12	**18.80**
Fine Adjustment	**PC21340**	28.96	**19.95**

4569

ProCheck Magnetic Base with Stage Adaptor



- Universal magnetic base
- Stage adaptor
- Swivel range: 210°
- Protective case included
- 1 Year Warranty

Order No.	Regular Price	SALE
PC21UMB1	37.83	**26.50**

4689

ProCheck Magnetic Bases



Standard/Fine Adjustment Stand

- On/off lever releases magnet
- Horizontal and vertical positioning capability
- Chrome rods and column
- V-Grooved base for mounting on cylindrical parts
- Accepts lug back groups 1, 2, 3, and 4
- Base size; 2.36"L x 1.90"W x 2.00"H

Universal Base Features:

- 132 Lbs. of magnet pull
- Unique three dimensional central locking mechanism
- Includes fine adjustment
- Will accept all dovetail and AGD and stem mount indicators

Heavy Duty Magnetic Vee Base Only

- 110 Lb. Pull
- On/off switch

Features	Order No.	Regular Price	SALE
Standard	**NL80300**	26.33	**18.45**
Replacement Base only for ProCheck Mag Bases	**NL80TMBA**	17.51	**13.10**

4690

ProCheck Magnetic Indicator Holders



- Rugged magnetic holder for indicators
- Assures fast accurate work in facing, boring, turning, etc.
- NL80TMB2 shown
- Indicator NOT included

Description	Order No.	Regular Price	SALE
Universal with Ball Socket & Fine Adjustment	**NL80TMB1**	25.95	**18.20**
Universal Base Only	**NL80TMB2**	23.65	**16.55**

4694

ProCheck Universal Magnetic Base



- 132 Lbs. of magnet pull
- Unique 3 dimensional central locking mechanism is used to easily set up gages into required position
- Includes fine adjustment feature
- Will accept all dovetail and AGD stem indicators

Order No.	Regular Price	SALE
NL80TMBUM	68.61	**48.05**

4867

Starrett Magnetic Base

660 Global Series

- Magnetic base indicator holder with triple-jointed arm
- Small, powerful magnetic base, with 70 lbs. holding force
- Three adjustable pivots controlled by a single knob for fast, easy indicator positioning



Order No.	Regular Price	SALE
MV7068621	188.49	**169.95**

5079

Starrett Magnetic Bases

657 Series

Fixed Post Indicator Holder Features:

- Large 1-15/16 x 1-5/8 x 1-7/8" base
- 3 Precision ground magnetic contact surfaces
- V-Step holds base to arbors, shafts & chucks
- Push button on/off switch

Flex-O-Post Indicator Holder

- All features above plus flex arm for difficult positioning



Model No	Order No.	Regular Price	SALE
657AA	**MV7052743**	279.13	**250.95**
657T	**MV7052760**	390.37	**350.95**

5083

PROCHECK Refractometers

- Lightweight aluminum construction
- Ergonomic, comfortable & easy operation
- Anti-slip, rugged body with durable & hygienic grip
- Translucent viewing colored background
- Hard plastic portable carrying case with sampler included
- Comfortable eyepiece for easy viewing
- Available in 0-10 & 0-32 Brix scale
- Lifetime warranty against manufacturer defects
- Features auto temperature compensation (ATC) for shops with varying temperatures



Brix Scale	Order No.	Regular Price	SALE
0-10%	**NZ6040000**	90.13	**62.95**
0-32%	**NZ6040005**	111.58	**77.95**

8522

PROCHECK Round Bar Center Finder

- Accurately and quickly locates center on round workpiece
- For execution, place the tool in drill chuck or collet and line up pointer with the line scribed on the shaft
- 3/8" Shank diameter
- 4-1/8" Overall length



Order No.	Regular Price	SALE
NE60RBCF38	10.87	**7.10**

4790

Fowler 5 Pc. Technical Measuring Set

Set consists of 1 of each:

- 6" Divider
- 6" Inside caliper
- 6" Outside caliper
- 6" Inch/metric pocket rule
- 5" Vernier caliper



Order No.	Regular Price	SALE
NE60TMS001	13.89	**9.75**

4393

LANG TOOLS CAT III Digital Multimeter Kit

- 600V AC/DC, 10A AC/DC
- 32MΩ resistance
- Frequency to 32kHz
- Continuity and diode test
- Temperature to 1400° F
- RPM for 1-8 cylinders
- Digital display and analog bargraph
- Protective rubber boot
- Tilt stand for hands-free operation
- Dual fuse protection
- Kit includes meter, temperature adapter, thermocoupler, inductive pickup, test leads, fabric pouch



Order No.	Regular Price	SALE
KL4013803	144.28	**114.95**

3998

6 Pc. Hardness Testing Files

- Six specially shaped files, each with a nonslip grip, color-coded handle
- The Rockwell value is printed on each handle and the files range from HRc 40 through HRc 65
- Complete with storage case



Order No.	Regular Price	SALE
NR50FHC6	134.42	**100.95**

3884

PROCHECK Combination Square Blades - 4R

- Hardened and tempered satin chrome ruler
- Graduated in 8ths, 16ths, 32nds and 64ths



Blade Size	Order No.	Regular Price	SALE
12"	**PC23B124C**	21.17	**14.85**
18"	**PC23B184C**	26.01	**18.20**
24"	**PC23B244C**	36.10	**25.30**

4507

Starrett Angle Meter

- Large scale for reading
- Pitch/angle calculator finds rise, run, angle, pitch information on back of tool



Order No.	Regular Price	SALE
MV8036080	24.45	22.00

4981

PROCHECK Multi-Use Rule and Gage

- Drill point gage, bevel protractor, center finder, circle divider and a tap and drill table in one tool
- Heavy-duty stainless steel
- Etched graduations in 64ths and millimeters

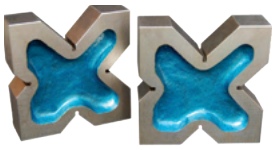


Order No.	Regular Price	SALE
NE60DPG1	10.95	7.70

4792

PROCHECK Quadruple V-Blocks

- Made from seasoned closed grained cast iron
- Universal V-block consisting of four different sized grooves
- Supplied in pairs

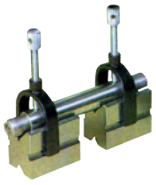


Overall Width	Overall Height	Overall Length	Capacity	Order No.	Regular Price	SALE
1 3/8"	3 3/4"	2 3/4"	3/4", 1 3/16", 1 9/16", 2"	NG54QVB1	65.61	45.95
1 3/16"	4"	4"	3/4", 1 3/16", 1 9/16", 2"	NG54QVB2	72.26	50.95
1 3/8"	4 3/4"	4 3/4"	1 3/16", 1 9/16", 2", 3 3/8"	NG54QVB3	100.57	69.95
2 3/8"	4 3/4"	4 3/4"	1 3/16", 1 9/16", 2", 2 3/8"	NG54QVB4	165.68	123.95

4771

PROCHECK V-Block Sets

- A precision set for toolmakers & machinists
- Made of hardened tool steel machined and ground in pairs to close tolerances
- Clamping capacity 1"
- Two V-blocks and two clamps are included in the set



Overall Width	Overall Height	Overall Length	Order No.	Regular Price	SALE
1 1/4"	1 1/4"	1 5/8"	NG52NVB117	33.59	23.50
1 5/8"	1 3/4"	2 3/4"	NG52NVB150	45.97	34.50

4872

TESA brown & sharpe BesTest® Dial Test Indicators

- Constant clockwise rotation
- Automatic reversal
- Swiveling point
- Carbide tip point
- Universal mounting
- Monoblock (precision watch) body design
- Anti-magnetic & corrosion resistant



Dial Reading	Graduation	Dial Face Diameter	Order No.	Regular Price	SALE
0-15-0	0.001"	1.0"	MV4545977	313.12	281.95
0-15-0	0.0005"	1.0"	MV4545978	323.42	290.95
0-15-0	0.0005"	1 1/2"	MV4545979	335.78	301.95
0-4-0	0.0001"	1.0"	MV4545980	351.23	315.95
0-4-0	0.00005"	1 1/2"	MV4545981	405.82	364.95
0-15-0	0.001"	1.0"	MV4551732	253.38	227.95
0-15-0	0.0005"	1.0"	MV4551733	259.56	233.95
0-15-0	0.0005"	1 1/2"	MV4551734	283.74	254.95
0-10-0	0.0005"	1.0"	MV4551735	309.00	277.95
0-10-0	0.0005"	1 1/2"	MV4551736	323.42	290.95
0-4-0	0.0001"	1.0"	MV4551737	349.02	313.95
0-4-0	0.00005"	1 1/2"	MV4551738	335.78	301.95

3354

Mitutoyo Stem Mount Dial Test Indicators

- Jeweled bearings
- Reversible contact point
- Two holding bars are supplied. One (1/2" x 1/4") is used with lathe tool posts and height gages, the other (.315" dia.) with drill chucks
- Fully adjustable bezel/dial face
- Contact point is adjustable within 220°
- Complete with accessories and compact carrying case



Graduation	Dial Reading	Order No.	Regular Price	SALE
0.001"	0-20-0	MT80513-518T	176.13	158.95

4224

Set includes: 5/32" & 3/8" stems and .080" point installed. Plus bar, clamp and point wrench.

PROCHECK Central Lock Universal Clamp & Indicator Set

- Anodized universal clamp
- Easy grip and lock
- Test indicator with .030" range and .0005" graduations
- 5/32" and 3/8" diameter posts with dovetail clamp
- Protective padded case
- 1 Year Warranty



Order No.	Regular Price	SALE
PC21UC35K	101.98	70.95

4495

PROCHECK Magnetic Bases & Electronic Indicator Sets

- 0-1" Digital indicator
- Resolution: .0005"/0.01mm
- Magnetic base with fine adjustment
- Protective case
- 1 Year Warranty



Order No.	Regular Price	SALE
PC20MBFA15EK	100.39	69.95
PC20MBFL15EK	124.17	86.95

4598

PROCHECK PREMIUM 12" Combination Square Protractor Head



- Precision cast & ground
- Protractor head moves 180° in both directions
- 1 Year Warranty

Order No.	Regular Price	SALE
PC23PH12	51.04	35.95

4365

PROCHECK PREMIUM 2 Pc. Combination Square Set



- Cast & ground square
- Hardened and tempered satin chrome ruler
- Graduated in 8ths, 16ths, 32nds and 64ths
- Protractor moves 180° in both directions
- Square / miter head features a level vial and a hardened scribe tool
- Fitted case included
- 1 Year Warranty

Order No.	Regular Price	SALE
PC23CS1224	61.82	42.95

4374

PROCHECK Aspheric Magnifier



- Aspheric lenses give a clear non-distorted image across the diameter of the lens
- 1" Diameter 5X & 10X magnification
- Folds neatly into case

Order No.	Regular Price	SALE
KA53V341D	14.50	9.45

4452

PROCHECK LED 10X Optical Comparator With 9 Reticles



- LED lighted scale maginifer with 9 reticles
- 7 Ultra bright LEDs
- Distortion free with 10X high resolution
- View area: 1-1/4"
- Recticle diameter: 34mm
- Includes fitted case
- 1 Year Warranty

Order No.	Regular Price	SALE
PC22L10XLED9PCS	175.95	122.95

4661

PROCHECK Illuminated Magnifier



- Handy magnifier with 5X and 10X power lens and light

Order No.	Regular Price	SALE
PC223061	8.86	6.20

29744

PROCHECK Screw Pitch Gages



Number of Leaves	Pitch Range	Order No.	Regular Price	SALE
30	4"-40"	NE60SP30	5.54	3.90
51	4"-84"	NE60SP51	16.25	10.95

4796

MAG-MATE Inspection Mirror/Magnet Combination Tools



- Ideal to see behind, underneath or around machinery
- Telescoping mirror for versatility
- Powerful rare earth magnets on the opposite end
- Use the magnet to retrieve metal items or as a magnetic base to hold the inspection mirror in place

Mirror Width	Mirror Length	Material	Overall Length	Extended Length	Pull	Order No.	Regular Price	SALE
2"	2"	Glass	6 1/4"	28"	2 lbs	NE70301G240	17.58	12.95
1 1/2"	1 1/2"	Glass	6"	23 1/2"	2 lbs	NE70306G240	23.93	17.95
3"	2"	Stainless	8 1/4"	38"	7 lbs	NE70314S925	50.71	37.95
1 1/4"	2"	Glass	6"	24 1/4"	2 lbs	NE70315G240	23.93	17.95
2 1/2"	1 7/8"	Acrylic	7 3/4"	32 1/2"	12 lbs	NE70321A931	52.46	38.95
-	-	Glass	14 1/4"	14 1/4"	20 lbs	NE70375G990	93.14	69.95

4044

MAG-MATE Stainless Steel Inspection Mirrors



- Ideal for use in critical areas where foreign objects cannot be left behind
- FOD free and great for high heat areas
- Telescoping shafts and non-slip solvent resistant grips on all models except NE70IMS103 and NE70IMS105 which have knurled handles and bendable shafts

Mirror Diameter	Overall Length	Extended Length	Shape	Order No.	Regular Price	SALE
3/8	11-1/2	11 1/2"	Round	NE70IMS103	31.39	23.95
1/2	12	12"	Round	NE70IMS105	31.60	23.95
1-1/4	35	35"	Round	NE70IMS115	32.59	23.95
2-1/4	36	36"	Round	NE70IMS123	32.45	23.95
2 x 1	36	36"	Oval	NE70IMS210	32.47	23.95
2 x 2	35-1/2	35 1/2"	Rectangular	NE70IMS223	32.68	24.95
3 x 2	37	37"	Rectangular	NE70IMS234	33.68	24.95

4050

TenActiv™ Hi-Viz cut glove with strong grip and barehand feel



- TenActiv™ provides ANSI Level A6 cut protection
- ANSI Level 4 abrasion resistant and ANSI Level 3 puncture resistant
- Highly flexible, hand-conforming 18-gauge knit provides a bare hand feel
- Foam nitrile palm coatings ensure a strong, steady grip in lightly oiled conditions
- Hi-viz color enhances visibility
- Touchscreen compatible to seamlessly move between tasks

Size	Cut Rating	Manufacturer No	Order No.	Regular Price	SALE
Medium	ANSI A6	S18TAXFN-8	**SG021825**	17.90	**14.30**
Large	ANSI A6	S18TAXFN-9	**SG021830**	17.90	**14.30**
X-Large	ANSI A6	S18TAXFN-10	**SG021835**	17.90	**14.30**

30799

TenActiv™ Cut resistant gloves w/true & tacticle fit



- Knit with a blend of steel, HPPE, and composite filament fiber for ANSI Level A5 cut protection
- Blend incorporates spandex for added comfort and a better fit
- Polyurethane coating offers excellent dexterity and tactile sensitivity while providing comfort and a strong grip
- TenActiv™ yarn feels cool against the skin and is more breathable than other fabrics

Size	Cut Rating	ManufacturerNo	Order No.	Regular Price	SALE
Medium	ANSI A5	STAGXPU-8	**SG0272770**	7.47	**5.95**
Large	ANSI A5	STAGXPU-9	**SG0272780**	7.47	**5.95**
X-Large	ANSI A5	STAGXPU-10	**SG0272790**	7.47	**5.95**

30801

Superior Glove Dexterity® Flexible, puncture resistant gloves w/ strong steady grip



- Latex palm coating for superior wet or dry grip
- ANSI Level 4 puncture resistant and ANSI Level 4 abrasion resistant
- Excellent flexibility and a comfortable ergonomic shape
- Latex palm coated

Size	Material	ManufacturerNo	Order No.	Regular Price	SALE
Small	Cotton Blend	S10LXQ-7	**SG0261610**	4.00	**3.20**
Medium	Cotton Blend	S10LXQ-8	**SG0261620**	4.00	**3.20**
Large	Cotton Blend	S10LXQ-9	**SG0261630**	4.00	**3.20**
X-Large	Cotton Blend	S10LXQ-10	**SG0261640**	4.00	**3.20**

30804

Endura® Goatskin gloves with visibility marking's



- Yellow hi-viz backs for high hand visibility in poor conditions
- Enhanced with 3M™ Scotchlite™ retro-reflective stripes to further enhance visibility
- Tough goatskin leather palms provide excellent abrasion resistance
- Gunn-cut styling includes full leather thumbs and forefingers for comfort and durability
- Pull-on fit ensures ease of use
- Elasticized backs for a snug fit every time

Size	Material	ManufacturerNo	Order No.	Regular Price	SALE
Small	Leather	378GAHVBS	**SG0251510**	12.00	**9.60**
Medium	Leather	378GAHVBM	**SG0251520**	12.00	**9.60**
Large	Leather	378GAHVBL	**SG0251530**	12.00	**9.60**
X-Large	Leather	378GAHVBXL	**SG0251540**	12.00	**9.60**

30805

Endura® MIG Welding gloves with 360° Cut & Heat protection



- Heat protection up to 200°C / 392°F
- Blended aramid liner provides 360° ANSI Level A4 cut protection
- High tensile strength goatskin provides outstanding abrasion resistance
- Cut-and-sewn construction for an optimal, comfortable fit
- Wing thumb design for durability and comfort
- Arc Flash testing placed these gloves at level 3, with an Arc Thermal Performance Value (ATPV) of 36 cal/cm^2

Size	Cut Rating	Abrasion Rating	Arc Rated	Puncture Rating	ManufacturerNo	Order No.	Regular Price	SALE
Small	ANSI A4	ANSI Level 4	ANSI CAT 3	ANSI Level 3	0260S	**RT580260S**	48.00	**38.40**
Medium	ANSI A4	ANSI Level 4	ANSI CAT 3	ANSI Level 3	0260M	**RT580260M**	48.00	**38.40**
Large	ANSI A4	ANSI Level 4	ANSI CAT 3	ANSI Level 3	0260L	**RT580260L**	48.00	**38.40**
X-Large	ANSI A4	ANSI Level 4	ANSI CAT 3	ANSI Level 3	0260X	**RT580260X**	48.00	**38.40**
2X-Large	ANSI A4	ANSI Level 4	ANSI CAT 3	ANSI Level 3	02602X	**RT5802602X**	48.00	**38.40**
3X-Large	ANSI A4	ANSI Level 4	ANSI CAT 3	ANSI Level 3	399GKGL5XXX	**SG0253840**	32.45	**25.95**

30826

TenActiv™ "Feel Friendly Glove" with Cut Protection & Steady Grip



- Special material blend provides comfortable excellent ANSI Level A7 cut resistance protection
- Touchscreen compatible to seamlessly move between tasks
- Micropore nitrile coating DOES NOT absorb oil or other liquids
- Craters act like tiny suction cups to improve grip in wet and oily conditions
- Nitrile thumb crotch reinforcement to reduce wear in critical areas

Size	Cut Rating	Abrasion Rating	Puncture Rating	Manufacturer No	Order No.	Regular Price	SALE
Medium	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNRT-8	**SG021795**	13.78	**10.95**
Large	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNRT-9	**SG021800**	13.78	**11.95**
X-Large	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNRT10	**SG021805**	13.78	**11.95**
2X-Large	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNRT11	**SG0271490**	13.78	**10.95**
3X-Large	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNRT12	**SG0271500**	13.78	**10.95**

30832

Clutch Gear® High-Dexterity Goatskin Mechanic gloves



- Goatskin leather palms with split leather patches and thumb crotch are strong
- Durable with offer excellent abrasion resistance
- Foam laminated spandex backs stretch to allow full freedom of movement
- Ergonomic shaping for all-day comfort
- ID label to personalize your gloves and prevent loss

Size	Abrasion Rating	Manufacturer No	Order No.	Regular Price	SALE
Small	ANSI Level 5	MXGCE/S	**SG0259480**	14.68	**11.75**
Medium	ANSI Level 5	MXGCE/M	**SG021085**	14.68	**11.75**
Large	ANSI Level 5	MXGCE/L	**SG021090**	14.68	**11.75**
X-Large	ANSI Level 5	MXGCE/XL	**SG021095**	14.68	**11.75**
2X-Large	ANSI Level 5	MXGCE/XXL	**SG0259490**	14.68	**11.75**

30827

SHOWA Atlas® 300



- Excellent wet & dry grip
- No irritating seams
- Ergonomic design reduces hand fatigue
- **Coating:** natural rubber
- **Liner:** polyester, cotton, 10-gauge
- **Color:** gray

Size	Order No.	Regular Price	SALE
Small	**SG2501855**	3.65	**2.95**
Medium	**SG2501860**	3.65	**2.95**
Large	**SG2501865**	3.65	**2.95**
X-Large	**SG2501870**	3.65	**2.95**
2X-Large	**SG2501875**	3.65	**2.95**

30894

SHOWA 306



▪Enhanced grip and abrasion resistance ▪Ergonomic design replicates a hands natural curvature ▪Enhanced breathability and reduced perspiration ▪Premium fit and soft comfort ▪Impermeability defies liquids ▪Coating: natural rubber▪Liner: Polyester/Cotton/13-gauge▪Color: blue/black palm

Size	Order No.	Regular Price	SALE
Small	**SG2501940**	9.13	**7.30**
Medium	**SG2501945**	9.13	**7.30**
Large	**SG2501950**	9.13	**7.30**
X-Large	**SG2501955**	9.13	**7.30**
2X-Large	**SG2501960**	9.13	**7.30**

30882

SHOWA 377



- Excellent wet & oil grip
- Liquid-resistant to knit wrist
- Warmth, protection and comfort
- Splash protection against wide range of chemical substances
- Mimics the curvature of a human hand to reduce fatigue
- Coating: nitrile, foam nitrile
- Liner: seamless knit, 13-gauge
- Color: blue/black palm

Size	Order No.	Regular Price	SALE
Small	**SG2502170**	8.40	**6.75**
Medium	**SG2502175**	8.40	**6.75**
Large	**SG2502180**	8.40	**6.75**
X-Large	**SG2502185**	8.40	**6.75**
2X-Large	**SG2502190**	8.40	**6.75**

30763

SHOWA 377IP



- Excellent grip in wet and greasy conditions
- The flat nitrile layers help protect against contaminants
- Flexible and durable TPR shields provide impact protection to the back of the fingers and hand
- Great dexterity and with high abrasion resistance
- Designed for easy movement and continuous wear
- No irritation by seams in contact with the skin
- Wrist well protected
- Coating: nitrile/nitrile foam/TPR impact zones
- Liner: cotton/polyester
- Color: white/blue/black/green

Size	Order No.	Regular Price	SALE
Medium	**SG2504155**	21.38	**17.10**
Large	**SG2504160**	21.38	**17.10**
X-Large	**SG2504165**	21.38	**17.10**
2X-Large	**SG2504170**	21.38	**17.10**

30794

Chill-Its® 6615 High-Performance Dew Rags

- Hi Cool® moisture management performance fabric
- Comfortable to wear under hats, helmets or alone
- Absorbent terry headband
- Elastic band for a great fit



Color	Order No.	Regular Price	SALE
Lime	**LF6512476**	9.53	**7.95**
Stars & Stripes	**LF6512477**	9.53	**7.95**
Camo	**LF6512478**	9.53	**7.95**
Red Western	**LF6512479**	9.53	**7.95**
Navy Western	**LF6512480**	9.53	**7.95**
Blue	**LF6512481**	9.53	**7.95**
Flames	**LF6512485**	9.53	**7.95**

2605

Chill-It's® 6700CT Bandana



- Activate by soaking in water for 2-5 minutes
- Remains hydrated for up to 4 hours
- Re-usable: just soak in water to re-activate

Order No.	Regular Price	SALE
LF656700N	3.09	**2.50**

23173

Chill-Its® 6710CT Evaporative Cooling Triangle Hat & 6700CT Bandana



Cooling Triangle Hat



Bandana

- Advanced PVA material activates easily and quickly when run under water for one minute
- Re-usable: just soak in water to reactivate
- Super-evaporative cooling process helps keep you cool
- Lightweight and low profile: perfect for under hard hats
- Tie closure
- Patented design

	Bandana			Cooling Triangle Hat		
Color	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Solid Blue	**LF656700CTB**	6.21	**4.95**	**LF656710CTB**	12.28	**9.95**
Camo	**LF656700CTC**	6.21	**4.95**	**LF656710CTC**	12.28	**9.95**
Flames	**LF656700CTF**	6.21	**4.95**	**LF656710CTF**	12.28	**9.95**
Stars & Stripes	**LF656700CTSS**	6.21	**4.95**	**LF656710CTSS**	12.28	**9.95**

2597

GloWear® 8010HL Non-Reflective Vests



LF658010HLO **LF658010HLL**

- Hook & loop closure
- Polyester mesh (4 oz.)
- One size fits all

Color	Order No.	Regular Price	SALE
Lime	**LF658010HLL**	4.93	**3.95**
Orange	**LF658010HLO**	4.93	**3.95**

2601

Faceshields & Headgear

- Headgear has locking cams
- Shield provides excellent protection from particle debris and sparks
- Clear polycarbonate
- Face shield and headgear sold separate



Headgear			
Width	Order No.	Regular Price	SALE
6 1/2" to 7 3/4"	KB85103	12.85	9.95

Face Shield						
Shield Width	Shield Height	Shield Thickness	Shield Material	Order No.	Regular Price	SALE
15 1/2"	8"	0.040"	Polycarbonate	KB85181640	4.17	2.95
15 1/2"	10"	0.040"	Polycarbonate	KB85101640	4.38	2.95

2535

4600 Blue Beast® Welder's

- Select heavy side leather
- Full sock lining, in-sewn at all finger tips
- All seams fully welted
- Turned leather hems
- Flame-resistant sleeves
- Extra-large die cut, gunn pattern
- Sewn with super-strong, heat-resistant DuPont™ Kevlar® thread



Size	Order No.	Regular Price	SALE
X-Large	KB514600XL	21.16	15.95
2X-Large	KB514600XXL	25.39	18.95

30708

SR1®

- Non-slip co-injected soft temple material
- Wider temples for better side protection
- Soft secure TRP nose pad
- Rugged polycarbonate lens filters 99.9% UV rays
- Exclusive Duramass® scratch resistant coating



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Fog & Scratch Resistant	Clear	KB85SR140AF	9.89	6.95
Gray	Anti-Fog & Scratch Resistant	White	KB85SR122AF	10.54	7.95
Gray	Polarized Scratch Resistant	Black	KB85SR112Z	33.35	24.95
Amber	Scratch Resistant	Black	KB85SR114	9.01	6.95
Blue Mirror	Scratch Resistant	Clear	KB85SR148B	11.59	8.95
Clear	Scratch Resistant	Black	KB85SR110	9.04	6.95
Clear	Scratch Resistant	White	KB85SR120	8.37	5.95
Clear	Scratch Resistant	Red	KB85SR130	8.37	5.95
Fire Mirror	Scratch Resistant	Red	KB85SR13R	11.59	8.95
Gray	Scratch Resistant	Black	KB85SR112	9.68	6.95

2544

3120 Split Leather Driver Gloves

- Straight thumb
- Regular grade
- Slip-on cuffs
- Unlined styles
- Shirred elastic backs
- Color-coded hem to identify size



Size	Color	Material	Order No.	Regular Price	SALE
Small	White	Cowhide	KB513120S	6.36	4.95
Medium	White	Cowhide	KB513120M	6.36	4.95
Large	White	Cowhide	KB513120L	6.36	4.95
X-Large	White	Cowhide	KB513120XL	6.65	4.95

30778

BAUSCH + LOMB Pre-Moistened Lens Cleaning Tissues

- Non-silicone based, anti-fog, anti-static, individually packaged tissues treated with special surfactants clean all glass and plastic lenses
- 100 Tissues per box



Order No.	Regular Price	SALE
KA408574GM	16.29	12.95

22761

Furix®

- Lightweight, contemporary frame is comfortable for both working environments and recreational activities
- Wrap-around, sunglass style fits all facial sizes
- First class optical lens provides unrestricted vision
- Provides 99.9% protection against harmful UV rays



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Scratch Resistant & Anti-Fog	Black	KB54SB8510DT	11.13	8.35
Coffee	Scratch Resistant & Anti-Fog	Black	KB54SB8515DT	11.93	8.95
Gray	Scratch Resistant & Anti-Fog	Black	KB54SB8520DT	11.93	8.95
Blue Mirror	Scratch Resistant & Anti-Fog	Black	KB54SB8575DT	13.45	9.95

2977

Highlander® Safety Glasses

- Lightweight sports styling
- Dual lens provides maximum protection
- Inner lens clip provides soft foam for comfort fit and extreme styling
- Can be worn with inner foam for additional dust protection or without, it is up to the wearer
- Meets or exceeds ANSI Z87 .1-2003 high impact requirements



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black	KB54SBB5010DT	11.07	8.30

24526

Safety Glasses

Alair

- Straight temples and integrated nose piece fits all facial sizes
- Superior scratch resistant frame and lens



Alair

Ztek

- Soft, non-slip rubber temple
- Integrated nose piece
- Scratch resistant



Ztek

Ztek				
Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Clear	KB54S2510ST	4.30	3.25
Gray	Gray	KB54S2520S	3.80	3.20
Blue Mirror	Blue	KB54S2575	4.83	3.65

Alair				
Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Clear	KB54S3210S	2.24	1.70
Gray	Gray	KB54S3220S	2.80	2.10
Light Blue	Blue	KB54S3260S	2.80	2.10
Mirror	Mirror	KB54S3280S	2.91	2.20

24529

† Indoor or outdoorExceeds ANSI Z87 .1-2003 High Impact Requirements

Honeywell Disposable Corded Earplugs



- Contoured shaped is easier to insert, resists tendency to back out of ear canal
- Polyurethane foam enhances comfort, especially for long term wearer
- Ideal for people with smaller ear canal
- Sold 100 per box
- Price per each

Noise Reduction Rating	Style	Order No.	Regular Price	SALE
33 dB	Corded	**LF50MAX30**	0.52	**0.42**

Compliance: ANSI S3.19-1974

25

Honeywell Honeywell WorkEast Cut-Resistant Gloves



▪HPPR fiber blend cut-resistant glove features ANSI cut level 3 protection ▪Lightweight, 13-gauge seamless knit shell is comfortable and provides excellent tactile sensitivity ▪Polyurethane coating ▪Color: gray/white

Size	Order No.	Regular Price	SALE
Medium	**KB65WE300M**	18.25	**14.60**
Large	**KB65WE300L**	12.73	**10.95**
X-Large	**KB65WE300XL**	12.73	**10.95**

30876

Honeywell NorthFlex-Oil Grip™ Gloves



- Lightweight, 13 gauge nylon seamless knit glove
- Foam nitrile coating features microscopic pockets that disperse fluid away from the surface for excellent grip and control
- Handling of fine products in a greasy or damp atmosphere
- **Color:** green/black

Size	Order No.	Regular Price	SALE
Medium	**KB65NF358M**	9.81	**8.35**
X-Large	**KB65NF3510XL**	8.96	**7.60**

30895

3M™ 500 Pairs One Touch Disposable Earplug Refill with 33 dB Earplugs



- OUTSTANDING COMFORT: E-A-Rsoft ear plugs have an advanced foam with a smooth texture - offering in-ear comfort for wearing over an extended time.
- SOFT SOUND-ABSORBING FOAM: Soft foam earplugs are easy to roll down and insert, then expand within the ear canal to help reduce noise exposure.
- VERSATILE: Use while chipping, chiseling, drilling, furnace operations, grinding, heavy equipment operations, machining, pouring/casting, power fastening, riveting, sanding, sawing and welding.
- DESIGNED FOR 3M ONE TOUCH DISPENSER: Dispenser delivers one uncorded foam ear plug with a gentle turn.

Color	Style	Order No.	Regular Price	SALE
Yellow	Disposable / Foam	**KB3591004**	0.15	**0.14**

500 earplugs - price per each plug

23128

bollé NITRO



- Has spherical lens that offers brilliant optics and peripheral vision
- Ultra low-profile
- Large adjustable strap

Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Translucent	**BO1540095**	23.18	**18.95**

2501

bollé IRI-s

With Dioptric Corrective Lenses





- Universal safety spectacle that is modular and infinitely adaptable to every individual thanks to the B-flex shape memory bridge
- Pivoting, non slip & ergonomic temples
- Clear version with reading area
- PLATINUM® anti-fog/anti-scratch coating

Magnification	Frame Color	Lens Color	Order No.	Regular Price	SALE
1.5x	Black & Red	Clear	**BO1540187**	18.54	**14.95**
2.0x	Black & Red	Clear	**BO1540188**	18.54	**14.95**
2.5x	Black & Red	Clear	**BO1540189**	18.54	**14.95**
3.0x	Black & Red	Clear	**BO1540190**	18.54	**14.95**

2500

bollé RUSH+ Goggles



- RUSH + has an ultra-sporty design with its highly flexible, co-injected and customizable temples!

Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black & Red	**BO1540252**	26.27	**20.95**
Twilight	Black & Grey	**BO1540258**	26.27	**20.95**
Smoke	Black & Grey	**BO1540259**	26.27	**20.95**
Light Brown	Black & Grey	**BO1540284**	27.30	**21.95**

2504

3M™ 3M™ Skull Screws™ Earplugs P1310



- Polyurethane
- Tough look of threaded metal, but feel of soft foam
- Push-to-fit style prevents earplug roll down
- Foam tip stays clean
- NRR 32 dB

Noise Reduction Rating	Style	Order No.	Regular Price	SALE
32 dB	Corded	**KB3592952**	1.04	**0.90**

Sold in Box Only

22585

DAZOR Ecoflex II LED Spot Lights

- 7 LEDs with optical lensing to produce intense white light where you need it
- Dust-proof and water protected fully enclosed head with glass lens cover
- 7' Cord with 24V AC/DC inline switching power supply
- Multiple mounting options for machine work enviroment
- UL listed



OAL (in.)	Arm Style	Mount	Order No.	Regular Price	SALE
24	Floating	Clamp	**KC50LCA27CMBK**	464.53	**417.95**
34	Floating	Clamp	**KC50LCA37CMBK**	464.53	**417.95**
25	Flexible	Clamp	**KC50LFA35CMBK**	276.04	**247.95**
17	Flexible	Desk	**KC50LFA35DBBK**	278.10	**249.95**
17	Flexible	L-Bracket	**KC50LFA35LBBK**	291.49	**261.95**
17	Flexible	Magnetic	**KC50LFA35MMBK**	291.49	**261.95**

2548

DAZOR Handheld Lighted Magnifier

- Mini (JMINI) is a small LED (11 bulbs) high power magnifier
- 2" Dia. lens made of distortion free glass
- Includes carrying case
- 50,000 hours of life for bulbs



Magnification	Battery Size	Number of Batteries	Lamp Type	Order No.	Regular Price	SALE
2.5X	AAA	4	24 x 0.5W Hi Brightness LEDs	**KC50J203HHM**	84.46	**75.95**
2.5X	AAA	4	12 x 0.5W Hi Brigthness LEDs	**KC50JMINI**	75.19	**67.95**

2549

ISOtunes ISO Pro Aware Earplugs

- Aware Technology™ offers complete situational awareness and protection from harmful noises.
- ANSI-certified 25 dB NRR
- OSHA-compliant hearing protection
- SafeMax™ Technology limits volume output to 85dB.
- Up to 13 hours of battery life
- Up to 25 additional hours with charging case
- IP67 durability for dust, sweat, and waterproof protection
- Background noise-reducing microphone for clear communication in loud environments
- Bluetooth 5.2 connects devices up to 30 feet.
- Siri/Google Voice Compatible
- Automatic Power Off after 2 hours without Bluetooth connection for battery conservation
- True Wireless Design



Type	Noise Reduction Rating	Style	Color	Order No.	Regular Price	SALE
Ear buds	ANSI-certified 25 dB NRR	Uncorded	Lime/Black	**HT015015**	205.99	**184.95**

30836

ISOtunes ISO Link Aware Ear Muffs Green

- Aware Technology™ offers complete situational awareness and protection from harmful noises.
- ANSI-certified 25 dB NRR
- OSHA-compliant hearing protection
- SafeMax™ Technology limits volume output to 85dB.
- Up to 11 hour rechargeable battery life
- AAA battery compatible for up to 22 hours of connection (not included)
- IPX4 Durability for sweat and water resistance.
- Noise-Isolating Microphone for clear communication in loud environments
- Bluetooth 4.2 connects, and dual-connects, devices up to 30 feet.
- Siri/Google Voice Compatible
- Automatic Power Off after 4 hours without Bluetooth connection for battery conservation
- Vented headband
- Memory foam ear cushions



Type	Noise Reduction Rating	Style	Color	Order No.	Regular Price	SALE
Ear Muff	ANSI-certified 25 dB NRR	Ear Muff	Lime/Black	**HT015034**	144.19	**129.95**

30837

KLEIN TOOLS Wireless Jobsite Speaker

- Connects wirelessly via Bluetooth or a wired auxiliary input
- 32.8-foot (10 m) connectivity range (in open space)
- 10-Hour battery life
- Drop protected up to 6.6-foot (2 m)
- Powerful rear magnet holds speaker to metal surfaces (panels, ducts, etc.)
- 1/4-20 threaded mount on bottom allows attachment to any standard tripod
- Rated IP45 water/dust resistant
- Able to answer calls hands-free with the built-in speakerphone
- Includes 1/8-Inch (3.5 mm) stereo auxiliary cable and micro USB-to-standard USB charging cable



Type	Wattage	Color	ManufacturerNo	Order No.	Regular Price	SALE
Wireless	5 W	Orange, Black, Gray	AEPJS1	**KP6040000**	57.68	**48.95**

28842

Koehler BrightStar Intrinsically safe Spot/Flood Headlamp

Model No. 200501

- **Bulb:** LED
- **Run time:** up to 20 hours spotlight / up to 140 hours floodlight
- **Spotlight lumens:** 65/185
- **Floodlight lumens:** 10/20
- **Batteries:** 3 AAA batteries (not included)
- **Features:** 4 light modes, large push button switch, lightweight polymer housing design, adjustable mount for greater vision, multi-use adjustable strap securely adheres to helmets, hardhats and heads, rated water-resistant design suitable for outdoor use in wet environment



Order No.	Regular Price	SALE
KN01200501	32.88	**25.95**

2749

Koehler BrightStar Intrinsically Safe Razor LED

- **Bulb:** LED
- **Run time:** 24 Hours
- **Lumens:** 125
- **Batteries:** 3 AA batteries (not included)
- Intrinsically safe
- **Features:** high output LED, fully waterproof to one meter, floats, weighs just 7 ounces, tactical, tail cap slot for optional lanyard or s-biner. extremely lightweight, super tough nylon construction, limited lifetime warranty



Body Color	Order No.	Regular Price	SALE
Hi Vis Green	**KN0160101**	35.33	**27.95**
Orange	**KN0160102**	35.33	**27.95**

2744

MCR 9318K13 Hero™ Kevlar®/Stainless Steel Sleeve

- DuPont™ 13 Gauge Kevlar®/stainless sleeve
- 18" Length
- High comfort level, great manual dexterity



Length	Thickness	Order No.	Regular Price	SALE
18"	13 Gauge	**KB519318K13**	10.88	**7.95**

30907

Cortina 51" Colored Delineator Posts

- EZ-Grab™ handle provides portability
- (2) 2" Hi-Intensity reflective collars
- 100% Recycled rubber base
- Excellent safety hazard marking device
- Base weight: 10 lbs.



Color	Order No.	Regular Price	SALE
Yellow/Black	**LF45747YRBC**	50.92	**40.95**
White/Black	**LF45747WRBC**	50.92	**40.95**
Orange/Black	**LF45747RBC**	50.92	**40.95**
Forest Green/Black	**LF45747GRBC**	50.92	**40.95**
Blue/Black	**LF45747BRBC**	50.92	**40.95**

2525

Premium Comfort Protective Face Masks

- Flying Cross premier uniform manufacturer serving the military, federal, and state and local public safety service markets
- Supima cotton is a superior type of cotton grown in the USA unique to other cottons, Strength, Softness and Color retention is unmatched.
- Features Silvadur™ technology, antimicrobial silver ions that minimize bacteria, odor and fabric discoloration
- Water repellent -resists moisture, blocking out large water droplets
- Machine Wash/tumble dry
- Anti-bacterial
- Sold minimum 10 pcs., priced each



Size	Order No.	Regular Price	SALE
Small/Medium	**AC201000**	8.76	**4.95**
Large/X-Large	**AC209000**	8.76	**4.90**

PRICE PER EACH MASK

29378

Honeywell Fusion® Reusable Earplugs

- Patented dual material design
- Unique detachable cord system
- Includes HearPack® hard plastic kidney shaped case
- SoftFlange® design delivers unmatched comfort and attenuation
- Sold by box of 100 pair only (priced per each pair)



Noise Reduction Rating	Color	Size	Standard Pack	Order No.	Regular Price	SALE
27 dB	Blue	Small	100	**LF50FUS30HP**	2.18	**1.85**
27 dB	Green	Regular	100	**LF50FUS30SHP**	2.18	**1.85**

2706

ProLite™ High Performance, Hand-Applied Stretch Film

- Cast 5 layer stiff hand wraps
- Designed for easy down gauging and cost savings over thicker standard hand wrap films
- Maintains load containment while reducing film usage
- Sold 4 rolls per case



Width	Length	Gauge	Order No.	Regular Price	SALE
18"	1,500 feet	60-80	**LF5200457**	29.89	**23.50**

2727

Oil-Dri Universal Bonded SMF Pads

- Treated chemically inert meltblown polypropylene
- Universal bonded pads are extra durable to handle non-aggressive leaks and spills in high-traffic areas, tool cribs and routine industrial applications
- Bonded layers build strength and allow fluid to spread quickly through the material



Width	Length	Standard Pack	Weight	Order No.	Regular Price	SALE
15"	19"	100	13 lbs	**LD60L91001**	93.69	**65.95**
15"	19"	100	17 lbs	**LD60L90902**	128.39	**89.95**
16"	20"	50	9 lbs	**LD60L90907**	71.04	**49.70**

24219

Kut Guard® Double-Ply Kevlar® Sleeve

- Kevlar provides excellent cut protection and heat resistance for the wrists and arms
- Seamless knit for comfort and flexibility



Size	Order No.	Regular Price	SALE
10"	**PP1010390**	4.32	**3.46**
12"	**PP1010405**	4.96	**3.97**
14"	**PP1010425**	5.50	**4.40**
18"	**PP1010465**	6.41	**5.15**
24"	**PP1010505**	9.88	**7.90**

29836

MAXIFLEX® CUT™ Seamless Knit Nitrile Gloves

- Form Fit and Feel 360° breathability
- Premium Black Micro-Foam Nitrile coated palm
- Green Engineered Yarn Shell
- Reinforced Thumb Crotch
- Sold by the dozen priced by the pair



Size	Color	Cut Rating	Order No.	Regular Price	SALE
Large	Green	ANSI A3	**PP1022195**	13.02	**9.95**
Medium	Green	ANSI A3	**PP1022200**	13.02	**9.95**
Small	Green	ANSI A3	**PP1022205**	13.02	**9.95**
X-Large	Green	ANSI A3	**PP1022210**	13.02	**9.95**
2X-Large	Green	ANSI A3	**PP1022220**	13.02	**9.95**

30752

PRM Pro 3/8" Soft Comfort Mats

Safety Yellow/Black

- Ergonomically styled anti-fatigue mats
- Great for light to moderate standing environments
- Yellow safety borders increase visibility to make work areas safer and have beveled edge to reduce tripping
- Economical solution for improving workers' comfort and productivity
- 100% Closed-cell PVC foam



Length	Width	Order No.	Regular Price	SALE
3"	2"	**RV6612150**	22.67	**18.15**
5"	3"	**RV6612155**	56.73	**45.40**

24277

Tolco® CleanCheck® 3 Pack - (32 oz. Trigger Sprayers and Bottles)



- Improves Safety. Pre-printed, bilingual (English/Spanish) content check boxes significantly improve identification
- Includes three Model 320 trigger sprayers that provide up to 40% greater output per stroke, significantly reducing the number of times you pull the trigger
- Always have the correct bottle available - one bottle, multiple applications
- Bottles are imprinted with ultraviolet ink for superior chemical resistance and a bright, glossy finish
- Sold per 3 Pack

Size	Material	Imprinting	Order No.	Regular Price	SALE
32 oz	Natural HDPE	White/Red	**TO1010000**	23.36	**17.55**

29260

SCRUBS® Waterless Cleaning Towels & Wipes

- Clean, citrus fragrance
- Advanced cleaning power
- For use on hands & surfaces
- No sticky residue
- NO SOAP! NO WATER! NO PROBLEM!™



BrandName	ProductName	Order No.	Regular Price	SALE
Scrubs	Citrus Fragrance Hand Cleaning Towels, 10 in x 12 in, 72 Wipes per Container	**LM54422C072**	22.78	**17.10**

3197

WEILER Upright Brooms

- Fiber brooms are for rough surfaces and corn brooms are for smooth
- Both can be used in wet or dry applications



Trim Length	Bristle Material	Order No.	Regular Price	SALE
7 1/2″	Plastic	**LD5344305**	16.25	**14.65**
10″	Palmyra	**LD5344007**	32.34	**27.50**
15″	Corn Fiber	**LD5344009**	20.21	**17.20**
18″	Corn Fiber	**LD5344008**	18.33	**15.60**

3218

WEILER Coarse Sweeping



- Non-absorbent - oil resistant - wash easily
- Wet or dry sweeping
- Lacquered hardwood block
- Two threaded handle holes

Overall Length	Trim Length	Bristle Material	Order No.	Regular Price	SALE
18″	3 1/4″	Synthetic Fill/ Oil Resistant	**LD5325238**	16.09	**14.48**
24″	3 1/4″	Synthetic Fill/ Oil Resistant	**LD5325239**	23.63	**20.95**
24″	3″	Tampico Fiber	**LD5342135**	41.15	**36.95**

Handles Sold Separately

3209

WEILER Perma Sweep™ Brooms



- These rugged Perma-Sweeps™ have 2-3 times the life of ordinary sweeps
- Tough synthetic block will not split, crack, or warp
- The synthetic fill is chemical and solvent resistant
- Wet or dry application

				Push Broom Head			Push Broom Head with Handle		
Overall Length	Style	Bristle Color	Trim Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
18″	Fine	Green	3″	**LD5342163**	19.85	**17.95**	**LD53GR18H**	24.70	**22.23**
18″	Heavy	Maroon	3″	**LD5342167**	19.85	**17.95**	**LD53MA18H**	31.35	**28.22**
18″	Medium	Yellow	3″	**LD5342165**	19.85	**17.95**	**LD53YE18H**	24.70	**22.23**
24″	Fine	Green	3″	**LD5342164**	27.54	**23.40**	**LD53GR24H**	28.94	**26.05**
24″	Heavy	Maroon	3″	**LD5342168**	27.54	**23.40**	**LD53MA24H**	24.70	**22.23**
24″	Medium	Yellow	3″	**LD5342166**	27.54	**23.40**	**LD53YE24H**	31.35	**28.22**

3215

WEILER Floor Brush Handles



- Lacquered hardwood
- Standard threads

Length	Tip Material	Order No.	Regular Price	SALE
5 feet	Wood	**LD5344018**	7.99	**6.80**
5 feet	Steel	**LD5344300**	8.56	**7.30**
5 feet	Vinyl	**LD5344301**	9.60	**8.15**

3211

Right Choice™

the Right Choice for YOU!

Right Choice Paper Towels

- Great value and performance and meets EPA guidelines for recycled fiber content
- Embossing enhances better hand feel and improves absorbency
- Smaller footage fits more dispensers, taking up less storage
- Popular in education, industrial and food service markets
- Fits in universal dispensers



Type	Width	Length	Ply	Color	Number Per Case	Number of Sheets	Order No.	Regular Price	SALE
Hardwound Roll	7.875″	350′	1	White	12 Rolls	-	**RC0110100**	67.08	**53.95**
Hardwound Roll	7.875″	350′	1	Natural	12 Rolls	-	**RC0110105**	52.46	**41.95**
Hardwound Roll	7.875″	800′	1	White	6 Rolls	-	**RC0110110**	71.56	**57.25**
Hardwound Roll	7.875″	800′	1	Natural	6 Rolls	-	**RC0110115**	58.48	**46.80**
Hardwound Roll	7.875″	700′	1	White	6 Rolls	-	**RC0110120**	64.74	**51.95**
Hardwound Roll	7.875″	700′	1	Natural	6 Rolls	-	**RC0110125**	50.66	**40.50**
Kitchen Roll	11″	8″	2	White	12 Rolls	250 RL	**RC0110130**	61.13	**48.90**
Kitchen Roll	11″	7.8″	2	White	30 Rolls	85 RL	**RC0110135**	61.06	**48.85**
Center Pull	10″	7.3″	2	White	6 Rolls	600 RL	**RC0110140**	60.59	**48.50**
C-Fold	10″	11.42″	1	White	10 pks	200 PK	**RC0110145**	50.62	**40.50**
Multi-Fold	9″	9.45″	1	White	16 pks	250 PK	**RC0110150**	65.18	**51.95**
Multi-Fold	9″	9.45″	1	Natural	16 pks	250 PK	**RC0110155**	47.52	**40.70**
Single Fold	9″	9.45″	1	White	16 pks	250 PK	**RC0110160**	54.56	**47.00**

28725

Right Choice 2-Ply Bath Tissue

- Individually wrapped
- Ideal for tight spaces and small use requirements
- 2-Ply embossing provides superior softness and absorbency
- Fits in universal dispensers



Style	Width	Diameter	Core Diameter	Number of Plies	Roll Length	Sheets per Roll	Number of Rolls	Order No.	Regular Price	SALE
Standard	4″	4.25″	1.75″	2	100′	400	96	**RC0110165**	102.88	**81.95**
Standard	4.5″	4″	1.5″	2	145.8′	500	96	**RC0110170**	130.50	**104.40**
Jumbo	3.25″	8″	3.5″	2	700′	-	12	**RC0110180**	61.80	**49.50**
Jumbo	3.3″	8.75″	3.25″	2	1000′	-	12	**RC0110175**	80.39	**63.95**

28724



RIGHT PRODUCTS. ✓

RIGHT QUALITY. ✓

RIGHT VALUE. ✓

RIGHT CHOICE. ✓



PRM PRO Cargo Tool Bags with Zip Closure

- Top opening reinforced with metal
- Pop open design, 4 exterior pockets, 2 side strapping for levels, 8 interior pockets and large compartment for tools and parts
- Padded handle and shoulder strap made from heavy duty water repellent polyester



LC707697

Length	Width	Height	Order No.	Regular Price	SALE
18"	9"	11"	**LC707697**	36.65	**28.95**
24"	9"	12"	**LC707699**	40.85	**28.60**

5487

PROTO Heavy-Duty Tool Trolley

- 300 lbs seating capacity
- 18" seating height
- 1" chrome finished tubular steel constructed frame
- 3" industrial grade hard floor casters, 2 with brakes
- Comfortable 16" x 16" x 3-1/2" thick vinyl fabric over foam seat
- Contoured 12" x 6" x 2-1/2" thick vinyl over foam back
- 12" x 18" x 1-3/4" heavy-duty stamped steel tool tray



Model No	Order No.	Regular Price	SALE
JFC1010	**KP4270210**	318.48	**254.95**

29436

PRM PRO Foreman's Closed Style Desk

- 14 Gauge corner posts and heavy steel construction assures long life
- Large storage area with 3-point locking system boasts two shelves for storing tools and other supplies
- Compartmentalized riser is perfect for storing writing utensils, forms and papers
- Drawer and cabinet come with individual locks and keys
- Large sloping surface leaves plenty of room for paperwork and supplies
- Assembly required



Height	Depth	Width	Color	Order No.	Regular Price	SALE
53"	29"	34 1/2"	Gray	**RV8266055**	1867.26	**1306.95**

Ships by common carrier F.O.B.

24299

STANLEY Fatmax® Open Mouth Tool Bag

- Central zipper allows for quick access and maximum visibility to contents when opened
- Injected polypropylene hard base extends life of bag by strengthening base and makes bag bottom water-resistant
- Rubber grip handle and padded shoulder strap for extra comfort
- Multiple easy access pockets and compartments for maximum organization



Height	Width	Length	Model No	Order No.	Regular Price	SALE
12"	10 3/8"	19"	518150M	**KP438038**	65.83	**59.25**

29405

PRM PRO Swivel Tractor Seat

- Air cylinder for easy height adjustment
- Five 3-1/2" heavy duty, chrome finished casters with rubber tread for ease of mobility
- Large, reinforced 17" diameter 1" deep tool tray
- Seat width 16"
- Limited lifetime warranty
- Ships UPS



Height	Order No.	Regular Price	SALE
18"-22"	**RZ454000**	176.00	**140.95**

5484

PRM PRO Heavy Duty Adjustable Stool

- Round foot rest
- Cushioned 14" seat with round foot rest
- Stool capacity 300 lbs.
- Air-cylinder adjustable seat, 5" estimate of height differential
- Round foot rest
- Powder coated paint
- Ships UPS



Adjustable Height	Order No.	Regular Price	SALE
26"-31"	**RZ451010**	117.00	**81.95**

29384

PRM PRO Drum Dolly-Non-Marring Caster Wheels

- For 55 Gal drums
- Wheels are designed to protect floor from maring or scratching



For Use With	Drum Capacity	Order No.	Regular Price	SALE
55 Gallon Drums	1,500 lbs	**PR05DLO55M**	221.45	**176.95**

30841

PROTO 20" General Purpose Tool Box

Double Latch

- Height: 9-1/2"
- Depth: 8-1/2"
- Removable tote tray



ManufacturerNo	Order No.	Regular Price	SALE
J9975-NA	**KP4295010**	71.67	**56.95**

24512

DURHAM MFG Est. 1922 Mobile Bench Cabinet

- 14 G Fixed shelf
- Double doors with 3-point locking handle w/2 keys
- 12G-12" vise support
- 6" x 2" Phenolic bolt-on casters (2) swivel, (2) rigid
- Fully welded



Depth	Width	Height	Platform Height	Color	Weight	Order No.	Regular Price	SALE
60"	24"	37 3/4"	36 3/4"	Gray	280 lbs	**SB55340095**	1123.38	**898.95**

Ships By Common Carrier from Manufacturer

5283

DURHAM MFG Est. 1922 Sturdy All Steel Parts Bins

- Easy parts access
- Hemmed and ribbed dividers
- 1-1/8" Wide label holders
- Large capacity - all units are 12" deep and all bin openings are 11-7/8" deep
- UPS dimensional weight shipping rates apply on SB5540B



SB5572B



SB5540B

Number of Bins	Height	Order No.	Regular Price	SALE
40	23 7/8"	**SB5540B**	228.12	**181.95**
72	42"	**SB5572B**	352.59	**281.95**

† Ships By Truck

23115

DURHAM MFG Est. 1922 Sturdy All Steel Parts Bin

- Easy parts access
- Hemmed and ribbed dividers
- Finished in durable gray powder/paint
- No sharp edges
- 1-1/8" Wide label holders
- Large capacity - all units are 12" deep and all bin openings are 11-7/8" deep



Number of Bins	Depth	Height	Order No.	Regular Price	SALE
24	12"	23 7/8"	**SB5524B**	216.98	**173.95**
42	12"	42"	**SB5542B**	357.45	**285.95**
56	12"	42"	**SB5556B**	385.26	**307.95**

† Shipped via UPS Dimensional Rate

23116

DURHAM MFG Est. 1922 Horizontal Cylinder Storage Cabinets

- Horizontal cabinets will accept (4) 20 lb. and 33-1/2 lb. LPG cylinders
- Cylinder cradles securely hold propane tanks in place
- Expanded metal sides, back and door, for visibility of contents. 1-1/2" x 1/8" angle iron frame
- DANGER FLAMMABLE MATERIALS signs on each door
- In full compliance with OSHA and NFPA standards when used properly
- Shipped fully assembled



Width	Depth	Height	Number of Shelves	Weight	Order No.	Regular Price	SALE
29 3/4"	30"	34 7/8"	2	133 lbs	**SB55EGCC450**	864.44	**691.95**
29 3/4"	30"	71 3/4"	4	203 lbs	**SB55EGCC850**	1214.74	**971.95**

Ships By Common Carrier from Manufacturer

5276

Huot ToolScoot™ Carts

- Durable nylon inserts to help prevent tool damage
- Two end storage trays with universal mounting holes for tool lock
- Solid, interlocking side panel construction adds strength and stability
- Heavy duty 5 x 1-1/4" casters load rated at 1000 lbs
- Angled lower tray for easy, quick tool access from either side
- All steel painted with durable Ecolo-Clad in red and black
- UPS dimensional weight shipping rates apply



Taper Size	Tool Capacity	Weight	Order No.	Regular Price	SALE
HSK 63A	48	75	**AP5313970**	642.18	**577.95**
HSK 100A	36	79	**AP5313980**	642.18	**577.95**
30	48	75 lbs	**AP5330HU**	570.96	**513.95**
40	48	75 lbs	**AP5340HU**	570.96	**513.95**
50	36	75 lbs	**AP5350HU**	570.96	**513.95**

Ships by Truck

5392

Huot HUOT TOOLSCOOT Toolscoot CNC Tree

- Shelf slots provide 35 locations per side (70 total)
- Heavy 14 gauge unibody construction with see through design
- Includes 6 shelves - 5 for toolholders and 1 utility
- Nylon inserts protect and securely hold toolholders
- Every 5th slot marked for easy shelf positioning
- Shelves can be set flat or at a 20° angle
- Heavy duty 5" casters - two swivel with brakes and two stationary, casters are load rated to 1,200 lbs.
- Size: 28 x 28-1/2 x 57"



Tool Capacity	Taper Size	Tool Type	Order No.	Regular Price	SALE
90	30	BT, CAT "V" flange, NMTB	**AP5355930**	1166.44	**1049.95**
90	40	BT, CAT "V" flange, NMTB	**AP5355940**	1166.44	**1049.95**
50	50	BT, CAT "V" flange, NMTB	**AP5355950**	1166.44	**1049.95**
90	HSK 63A	HSK	**AP5355970**	1166.44	**1049.95**
50	HSK 100A	HSK	**AP5355980**	1166.44	**1049.95**

23336

Huot CNC Machine Mount Rack

- Shelves mount flat or at a 20 degree angle for easy tool presentation
- Large capacity - up to 28 tools total
- Low profile keeps shelves close to the machine -only protrudes 11"
- Durable nylon inserts (included) protect and securely hold tool holders
- Size 11 x 19 x 18-1/4"
- Black & red



Taper Size	Tool Capacity	Order No.	Regular Price	SALE
40	28	**AP5356740**	262.71	**235.95**

UPS Dimensional Shipping Rates Apply

5359



Economy Shelf Bins

for 12", 18" & 24" Deep Shelving or Automated Storage & Retrieval Units

- Molded of durable industrial grade polymers years of service
- Special built-in hanglock allows easy access to the entire bin
- Wide label holder molded in
- Available in: (B) blue, (R) red, (S) stone, (Y) yellow - specify bin color when ordering
- UPS dimensional weight shipping rates apply



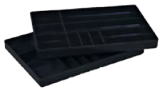
Optional Shelf Bin Dividers Sold in package quantity of 24 only

								Yellow			Red			Blue		
Outside Length	Outside Width	Outside Height	Inside Length	Inside Width	Inside Height	Standard Pack	Use Dividers	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
11 5/8"	2 3/4"	4"	10 1/4"	1 5/8"	4"	24	-	SD5030110Y	3.99	2.95	SD5030110R	3.99	2.95	SD5030110B	3.99	2.95
11 5/8"	4 1/8"	4"	10 1/4"	3"	4"	24	SD50-40120	SD5030120Y	4.53	2.95	SD5030120R	4.53	2.95	SD5030120B	4.53	2.95
11 5/8"	6 5/8"	4"	10 1/4"	5 1/2"	4"	12	SD50-40130	SD5030130Y	6.93	4.95	SD5030130R	6.93	4.95	SD5030130B	6.93	4.95
17 7/8"	6 5/8"	4"	16 1/2"	5 1/2"	4"	12	SD50-40130	SD5030138Y	8.63	5.95	SD5030138R	8.63	5.95	SD5030138B	8.63	5.95
17 7/8"	8 3/8"	4"	16 1/2"	7 1/8"	4"	12	SD50-40150	SD5030158Y	11.80	8.95	SD5030158R	11.80	8.95	SD5030158B	11.80	8.95

5245

KENNEDY Ultimate Organizer

- High impact polystyrene
- Color: black
- Two trays per package, 10 compartments per tray
- Tray size: 16"W x 11"D x 1-1/4"H



Order No.	Regular Price	SALE
RX5582223	59.87	47.95

5435

HARPER Hand Trucks - General Purpose

- 1-1/4" Tubular steel frame robotically welded
- 1/4" High strength tapered steel base plate with beveled edge 14" wide at the front edge. 17-1/2" wide at the back and 13" long
- Heavy gauge fenders prevent load from rubbing on wheels and ties the base and frame together for strength
- 3/4" "D-Lok" zinc plated axle to resist rust
- 900 lb. Capacity
- Ships by truck



Noseplate Width	Noseplate Depth	Overall Height	Overall Width	Wheel Diameter	Order No.	Regular Price	SALE
14" - Front; 17 1/2" - Back	13"	51"	20"	8"	RV3032T57	353.72	264.95
14" - Front; 17 1/2" - Back	13"	51"	20"	10"	RV3032T84	407.09	304.95

23292

STANLEY 4 Drawer Tool Chest & Roller Cabinet Combo

- 50 lb. Full-Extension Ball-Bearing Drawer Slides for smooth operation and ease of use
- 4" x 2" Casters Support 500 lbs.; two lock and swivel
- Gas Struts Support the Chest Lid to easily open and close
- Keyed Internal Locking System safeguards tools
- Recessed Side Handles on tool chest allow for easy lifting
- Non-Slip Open Weave Top Mat protects the cabinet surface
- Middle Chest Adds Storage between the tool chest and rolling cabinet
- Full-Width Black Steel Drawer Trim can be opened anywhere along the drawer
- Each unit sold separately



Tool Cabinet												
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Drawers Sizes	Caster Diameter	Load Capacity	ManufacturerNo	Order No.	Regular Price	SALE
4	Ball Bearing	32"	26.5"	18"	Black	(1) 22.125x16.5x4.125, (3) 22.125x16.5x6.375	4"	500 lbs	STST22742BK	KP436042	363.22	326.90

29387

PROTO Straight Wall Utility Bucket

- Rugged water resistant polyester
- Polypropylene rope handles reinforced at top ring
- 8" x 7" Inside pocket
- Heavy-duty die cast swivel snap hook



ManufacturerNo	Order No.	Regular Price	SALE
J95336	KP4292280	99.68	79.95

5502

STANLEY 41" 7 Drawer Mobile Workbench

- 85 lb. Full-Extension Ball-Bearing Drawer Slides
- 1-1/2" Thick Solid Wood Work Surface
- 5" x 2" Casters Support 1,100 lbs.; two lock and swivel
- Full-Width Top Drawer and Deep Bottom Drawers
- Keyed Internal Locking System
- Full-Grip Tubular Side Handle is easy to push around the work area



Height	Width	Depth	Caster Diameter	Top Material	Color	Load Capacity	ManufacturerNo	Order No.	Regular Price	SALE
34.5"	41"	18"	5"	Wood	Black	1,100 lbs	STST24174BK	KP436052	1210.83	1089.75

Ships common carrier or UPS dimensional rate

29389

Vestil Hoppers

Standard Features:

- Includes front bumper release for easy hopper dumping
- Includes manual pull-cable to dump from seat of fork truck
- Hopper returns to upright position automatically after dumping
- Each fork pocket is 7-1/2"W x 2-1/2"H useable
- Safety strap to secure hopper to forklift
- Full-length fork tubes
- Precision robotic welded steel construction
- Durable powder coat blue finish



6,000 lbs						
Overall Width	Overall Height	Overall Length	Fork Pocket Center	Order No.	Regular Price	SALE
41-9/16"	42-3/4"	61-1/8"	18"	RV54D100HD	1250.37	1124.95

2,000 lbs						
Overall Width	Overall Height	Overall Length	Fork Pocket Center	Order No.	Regular Price	SALE
41 1/4"	42-3/4"	61"	18"	RV54D100LD	1025.81	922.95
56-11/16"	51-13/16"	68-5/16"	28"	RV54D200LD	1297.76	1167.95

4,000 lbs						
Overall Width	Overall Height	Overall Length	Fork Pocket Center	Order No.	Regular Price	SALE
41 1/4"	42-3/4"	69"	18"	RV54D100MD	1140.18	1025.95

Ship FOB factory

5577

Tradesman Pro™ Backpack

- 39 different-sized pockets for tools, parts and gear
- Reflective shoulder straps with extra padding and handle
- Tall interior pockets for long screwdrivers
- Upper pockets holds safety glasses, cell phones, etc
- Zipper pocket for small parts and tools
- Exterior tape thong and tape measure holder
- Fully-molded bottom protects from the elements



KP6012910



KP6012785

Number of Pockets	Width	Length	Height	Color	ManufacturerNo	Order No.	Regular Price	SALE
39	7″	14 1/2″	20″	Black, Reflective Gray, Green Accents	55597	**KP6012785**	187.91	**159.95**
39	7″	14 1/2″	20″	Camo	55421BP14CAMO	**KP6012910**	171.64	**145.95**

28930

Canvas Tool Buckets

5109SLR

- Load rated: 150-pounds (68 kg)
- Web strap extends down the side of the bucket
- Heavy duty plastic bottom with drain holes

5104S

- Load rated for 100-pounds (45.4 kg)
- Web handle extends down the sides of the bucket for added strength
- Made of heavy-duty No. 4 canvas
- High-density polyethylene top ring for strength and chemical resistance
- Leather reinforced bottom
- Inside pocket measures 8-Inch x 8-Inch (203 x 203 mm)



KP6012865
KP6012855

5104FR

- Made of flame-resistant No. 4 canvas
- Load rated for 100-pounds (45 kg)
- Durable leather-reinforced handle extends down the sides of the bucket for added strength
- Stitched and riveted with a double-reinforced bottom for durability
- Meets the performance requirement of NFPA -701



KP6012850
KP6012845

5104CLRFR

- Made of flame-resistant No. 4 canvas
- Extended canvas top zips closed for overhead lifting
- Load rated for 100-pounds (45 kg)
- Stitched and riveted with a double-reinforced bottom for durability
- Drop-forged steel locking carabiner for added safety
- Meets the performance requirement of NFPA -701



KP6012840

5104CLR22

- Load rated 150-pounds (68 kg
- Top of bucket zips closed
- 14-inch (356 mm) diameter accommodates standard 5-gallon (18.93 L) bucket
- Body constructed of heavy-duty No. 1 canvas
- Web strap extends down the side of the bucket
- Leather reinforced bottom extends 3-Inch (76 mm) up the side
- Durable steel rim

Width	Length	Height	Color	ManufacturerNo	Order No.	Regular Price	SALE
12″	15″	15″	Natural	5109SLR	**KP6012865**	89.92	**75.95**
12″	17″	17″	Natural	5104S	**KP6012855**	136.52	**115.95**
12″	17″	17″	Black	5104FR	**KP6012850**	158.74	**134.95**
12″	17″	17″	Black	5104CLRFR	**KP6012845**	222.03	**188.95**
14″	22″	22″	Off-White	5104CLR22	**KP6012840**	204.21	**173.95**

28934

Flammable Safety Cabinets

- Patent Pending EZ Level™ Bolster System
- Hi-Viz Safety and Usage Information Labels
- Safety Yellow exterior and Bright White Interiors
- Forklift Capability
- Continuous Staked Piano Hinges
- Heavy-Duty Enclosed Staggering Mechanism on Self-Close Models
- Flush Keyed and Padlock-able Paddle Handle
- Self-Latching 3-Point Door Lock System
- 2″ Deep Leak-Proof Sump
- High Visibility Ground Connection



Width	Depth	Height	Number of Shelves	Order No.	Regular Price	SALE
46″	24″	45 3/4″	1	**KN6110125**	2526.56	**1894.95**
46″	24″	66-23/32″	2	**KN6110134**	3294.94	**2470.95**
46″	31 39/64″	66-23/32″	2	**KN6110137**	3325.98	**2493.95**

28640

Ships common carrier • FOB from stocking location.
While Supplies Last

Low Profile Plastic Creepers

Features and Benefits:

- Low profile, 7/8″ floor clearance
- Surface is resistant to solvents, greases and fuels
- This has a unique design that is body-fitting to provide comfort for the user
- 2″ Longer for a better fit
- The urethane rollers are inserted into the creeper body for ease of use
- Dimensions: 38″L x 17-1/2″W x 4″H



Color	Order No.	Regular Price	SALE
Red	**KN6592102**	162.76	**121.95**
Yellow	**KN6593102**	162.76	**121.95**
Blue	**KN6594102**	162.76	**121.95**

5441

Heavy Duty Stools

Specifications:

- 7/8″ OD- 18 gauge steel
- 6300 Series - square seat for more room; masonite board recessed into pad of seat
- 6400 Series - 14″ round seat, vinyl padded seat and back rest
- 6200 Series - available with optional back rest or can be bought as a stool



RZ406418HB
RZ406424HB



RZ406218HB
RZ406224HB



RZ406318HB
RZ406324HB



RZ406224
RZ406230

Description	Weight	Order No.	Regular Price	SALE
19-27″ Adjustable Stool with Backrest	17.0 lbs	**RZ406218HB**	164.80	**123.60**
24″ Stool with Hardboard Seat	9.0 lbs	**RZ406224**	89.61	**66.95**
25-33″ Adjustable Stool with Backrest	21.0 lbs	**RZ406224HB**	170.98	**127.95**
30″ Stool with Hardboard Seat	10.0 lbs	**RZ406230**	110.21	**82.95**
19-27″ Adjustable Square Stool with Backrest	18.4 lbs	**RZ406318HB**	206.00	**154.50**
25-33″ Adjustable Square Stool with Backrest	19.5 lbs	**RZ406324HB**	213.21	**159.95**
19-27″ Adjustable Padded Seat with Backrest	18.0 lbs	**RZ406418HB**	181.28	**135.95**
25-33″ Adjustable Padded Seat with Backrest	19.0 lbs	**RZ406424HB**	189.52	**141.95**

UPS dimensional weight shipping rates may apply

5459

Self-Dumping Hopper 1.1 Cubic Yd- with Caster Base



- Designed specifically to allow one operator to easily move up to 1000 lb.
- Fits through most office and warehouse doors; 32″ wide
- Easily maneuverable by operator to open space for forklift to take over
- Tilts 40°, simple pull release safety hatch for easy dumping
- Automatically returns to upright position
- Comes with all-welded tubular frame and fork pockets.
- Sturdy designed blow molded hopper.
- Smooth rolling with 6″ mold-on rubber wheels
- Available in black and red. Other colors available upon request.

Load Capacity	Overall Length	Overall Width	Overall Height	Color	Volume Capacity	Order No.	Regular Price	SALE
1000 lbs	73″	33″	54″	Black	1.1 Cubic Yard	**BH0211CB**	2163.00	**1946.95**
1000 lbs	73″	33″	54″	Red	1.1 Cubic Yard	**BH0211CR**	2163.00	**1946.95**

Ships FOB mfg. warehouse or DC.

29989

KANT TWIST T-Handle Clamps



- Lightweight and 40% stronger than c-clamps
- Floating jaws stay parallel & eliminate distorting or twisting action
- Cantilever action provides 4:1 ratio
- Built in "V" blocks for holding round or rod stick
- Copper plated jaws and screws, ideal for welding

Maximum Opening Capacity	Open Throat Depth	Closed Throat Depth	Load Capacity	Order No.	Regular Price	SALE
1"	3/8"	1/2"	350 lbs	**SE64401**	22.32	**17.95**
2"	1 1/8"	1 1/4"	800 lbs	**SE64405**	31.52	**24.95**
2 1/2"	2"	1 13/16"	700 lbs	**SE64407**	32.22	**25.95**
3"	1 1/4"	1 3/4"	1500 lbs	**SE64410**	50.30	**39.95**
4 1/2"	2 1/4"	3 13/16"	1700 lbs	**SE64415**	53.73	**42.95**
6"	2 1/8"	3 3/8"	2000 lbs	**SE64420**	66.26	**52.95**
6"	4 1/2"	5 1/2"	2000 lbs	**SE64421**	78.52	**62.95**
9"	3 3/8"	5 1/4"	2500 lbs	**SE64430**	137.74	**109.95**
10"	6"	7"	3500 lbs	**SE64435**	212.36	**169.95**
12"	12"	7"	6000 lbs	**SE64440**	228.11	**181.95**

23592

WILTON Classic Series Regular Duty F-Clamps

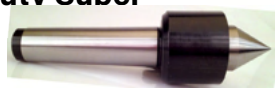


- Black Oxide Spindles resist wear and tear while impeding rust
- Drop Forged Arm provides minimal flex under heavy workloads
- Swivel Pad centers on workpiece for sturdy hold
- Sturdy Tommy Bar engineered for durability and comfort

Capacity	Throat Depth	Clamping Force	Order No.	Regular Price	SALE
8"	4 3/4"	1,800 lbs	**HZ4186200**	70.25	**59.95**
12"	5 1/2"	1,800 lbs	**HZ4186210**	79.83	**67.95**
18"	4 3/4"	1,800 lbs	**HZ4186220**	92.60	**78.95**
24"	4 3/4"	1,800 lbs	**HZ4186230**	97.39	**82.95**

25542

RAPIDHOLD Heavy Duty Super Precision Live Centers



- Triple bearing heavy duty design
- All centers are provided with the precision bearings
- One piece body made of high quality of forged alloy steel, hardened to 60HRC and precisely ground
- Bearings are protected by a special steel ring
- .0002" T.I.R.

Mount	Head Diameter	Maximum RPM	Weight	Order No.	Regular Price	SALE
1 MT	1.338"	6,000	0.64 lbs	**HL2061000**	186.92	**130.95**
2 MT	1.417"	5,500	0.88 lbs	**HL2061001**	264.63	**184.95**
3 MT	1.850"	4,500	1.94 lbs	**HL2061002**	329.35	**230.95**
4 MT	2.283"	4,000	3.23 lbs	**HL2061003**	394.08	**275.95**
5 MT	2.677"	3,000	6.86 lbs	**HL2061004**	497.24	**347.95**
6 MT	3.543"	2,000	17.2 lbs	**HL2061005**	1047.43	**733.20**

24590

WORLD CLASS QUALITY 6" Swivel Bench Vise

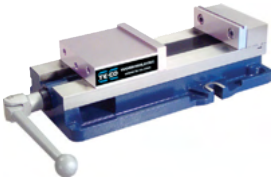


- Unbreakable all steel body
- Permanent pipe jaws and anvil
- 360° Swivel base with locks
- 6" Jaw Width
- 3" Jaw Depth
- 6" Jaw Opening
- Weight: 32 lbs

Order No.	Regular Price	SALE
HZ60SV6	227.13	**169.95**

22715

TE-CO Single Station Vises

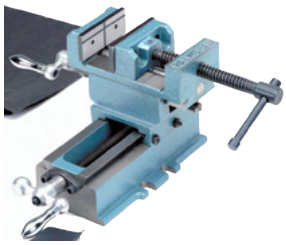


- Powder coated paint resists flaking and peeling
- Hardened vise bed and jaw plates
- Sealed and lubricated needle roller thrust bearing for maximum life and minimum torque
- Repeatability within .001"
- Outsied rails of body are machined within 0.0005" square to jaw

Base Length	Jaw Height	Jaw Width	Jaw Opening Capacity	Maximum Clamp Force	Weight	Order No.	Regular Price	SALE
6"	4.375"	5.94"	9"	8,200 lbs	81 lbs	**HT65P-WS6900**	763.92	**687.50**
8"	5.275"	8"	11"	12,000 lbs	176 lbs	**HT65P-WS8110**	1622.25	**1459.95**

1790

PALMGREN INC Vises



Cross Slide Vises

- For quick and precise X & Y axis positioning
- Locking levers on both the X & Y axis for securing the vise into position
- Ball crank handles aid in rapid movement
- Three bolt lugs on each side of the base to match most table configurations
- CV30 and 60 have knurled jaw faces
- CV80 has smooth jaw faces
- Lifetime warranty

Low Profile Drill Press Vises

- base has four 1/2" shoulder slots for quick, easy positioning on drill press tables
- Replacealbe jaws
- Moveable jaw on the DPL40 has vertical and horizontal v-groove
- DPL60 has a smooth jaw; DPL80 has a stepped jaw
- UPS Dimensional Weight shipping rates apply

Overall Height	Throat Depth	Base Length	Base Width	Jaw Depth	Jaw Height	Jaw Opening Capacity	Jaw Width	Weight	Order No.	Regular Price	SALE
6 1/2"	2"	11"	6 3/4"	1 7/8"	1 7/8"	6"	6"	65 lbs	**JB50CV60**	493.37	**443.95**
7 5/8"	2"	12 1/4"	7 5/8"	1 7/8"	1 7/8"	7 5/8"	8"	82 lbs	**JB50CV80**	623.15	**560.95**
2 3/8"	1 3/4"	6 15/16"	6 1/2"	1 5/8"	1 5/8"	4"	4"	13 lbs	**JB50DPL40**	149.35	**133.95**
3"	2"	9 5/8"	8 7/8"	1 3/4"	1 3/4"	6"	6"	33 lbs	**JB50DPL60**	276.04	**247.95**
3 3/8"	2"	13 3/4"	11 7/16"	1 3/4"	1 3/4"	8"	8"	49 lbs	**JB50DPL80**	474.83	**426.95**

24367

KURT WORKHOLDING Magnetic Jaw Plate & Parallel Set

This 11 Piece Set Includes:



- 2 Ea. 3/16 x 1 x 6" ground steel parallels
- 2 Ea. 3/16 x 1-1/4 x 6" ground steel parallels
- 2 Ea. 3/16 x 1-3/4 x 6" ground steel parallels
- 1 Ea. D60-7-MAG hardened jaw plate with earth magnet
- 1 Ea. D60-315-MAG hardened Groove Lock jaw plate with earth magnet
- 1 Ea. WSRL46 Kurt® Groove Lock workstop
- 1 Ea. WSRLE46 Kurt® Groove Lock extended workstop
- Plastic storage box

Order No.	Regular Price	SALE
HT806PJS	179.22	**160.95**

23647

Jergens Forged Adjustable Clamps



- Automatically compenates for clamping height changes within their clamping ranges
- The swivel bushing is permanently mounted in the clamp which alleviates lost or missing parts
- Standard brass heel plate protects the machine table
- Material: 1137 Forged Steel, heat Treated
- Finish: Black Oxide
- One Piece Construction
- Versatile Clamping Height

Bolt Size	Clamping Range	Clamp Width	Clamp Thickness	Heel to Center	Maximum Torque	Clamping Force	Order No.	Regular Price	SALE
1/2"	0-2"	1 3/4"	1 1/2"	2 1/2"	90 ft/ lbs	6,800 lbs	**SG6619101**	56.24	**50.65**
5/8"	0-2 3/8"	2"	1 5/8"	3"	180 ft/ lbs	10,600 lbs	**SG6619102**	70.10	**62.95**
3/4"	0-2 3/4"	2 1/2"	1 3/4"	3 3/4"	300 ft/ lbs	16,000 lbs	**SG6619103**	106.40	**95.95**
7/8"	0-3 1/2"	3"	2 3/8"	4 1/4"	500 ft/ lbs	21,800 lbs	**SG6619104**	157.59	**141.95**

1256

TE-CO 52 Pc. Machinist Clamping Set

For 5/8" Table Slot with 1/2" -13 T-Nuts & Studs



Set Contains:

- 4 Coupling nuts
- 6 Flange nuts
- 6 T-slot nuts
- 24 Studs, 4 each:3, 4, 5, 6, 7 & 8" long
- 6 Step blocks
- 6 Serrated end clamps
- 1 All plastic holder

Order No.	Regular Price	SALE
SG6012625CKUS	175.10	**148.85**

25209

F.O.B. Warren, MI • UPS Dimensional Weight • Shipping Rates May Apply

Rite Hite Self Positioning Hold Down Clamps



- Use on any machine with a T slot
- Instant adjustment up to 5"
- Assorted stud sizes 3/8" to 1"
- Swivel rocker attached to base

Thread Size	Length	Width	Thickness	Maximum Height	Clamp Force	Holding Capacity	Weight	Order No.	Regular Price	SALE
1"	11 1/8"	2 7/8"	3 5/16"	5"	-	65,000 lbs	12.00 lbs	**SG751000L**	123.25	**110.95**
1"	9"	2 7/8"	3 5/16"	3"	-	8,0000 lbs	10.00 lbs	**SG751001S**	119.34	**106.95**
3/8"	3 1/2"	1 1/8"	1 3/32"	1 1/4"	-	10,000 lbs	0.50 lbs	**SG75375L**	29.30	**25.95**
3/8"	3"	1 1/8"	1 3/32"	1"	-	14,000 lbs	0.50 lbs	**SG75376S**	27.35	**24.95**
1/2"	5 3/4"	1 7/16"	1 13 32"	2 1/2"	-	12,800 lbs	1.40 lbs	**SG75500L**	39.07	**34.95**
1/2"	4 1/4"	1 3/8"	1 13 32"	1 3/4"	-	16,800 lbs	1.00 lbs	**SG75501S**	37.11	**32.95**
5/8"	6 3/4"	1 7/8"	1 1/2"	3 1/2"	-	18,000 lbs	2.50 lbs	**SG75625L**	48.83	**43.95**
5/8"	5 1/2"	1 7/8"	1 1/2"	2 3/4"	-	24,000 lbs	2.00 lbs	**SG75626S**	46.89	**41.95**
3/4"	9"	2 1/8"	2 3/8"	5"	-	24,000 lbs	4.75 lbs	**SG75750L**	68.46	**61.95**
3/4"	7"	2.00"	2 3/8"	3 1/2"	-	35,000 lbs	4.00 lbs	**SG75751S**	66.51	**59.95**

22786

JET 15" Bench Model Economy Drill Press



Features:
- Rotating, ±45° tilting, crank-operated worktable
- A 1/2" diameter external positive depth stop
- Built-in work lamp on all models, bulb not included
- Morse taper spindles for versatility
- Drill chuck and key included
- All Models feature a versatile Step Pulley Drive
- 2 Year Warranty

Machine Specs:
- Drilling Capacity: 5/8" Cast Iron, 1/2" Mild Steel
- Spindle Travel: 3-3/8"
- Spindle Taper: 2MT
- Range of Speeds: (16) 250 - 3100 RPM
- Swing: 15"
- Table Size: 10 x 10"
- Motor: 1/2HP, 115V
- Weight: 175 lbs

Order No.	Regular Price	SALE
PY60354401	925.97	899.00

F.O.B. Lavergne, TN • Ships by truck • JET BRAND PRODUCTS NOT AVAILABLE IN CANADA

5894

PALMGREN INC 6" & 8" Heavy Duty Bench Grinders



- Palmgren's bench grinders are designed and built with high-quality motors for heavy duty use and long duty cycles
- Our stated horsepower is actual sustained horsepower under 100% loads with less than 1% loss from stated RPMs at same 100% loads
- Designed to do more, a Palmgren bench grinder provides you with 4 to 7 times longer duty cycles under load and 8 times less speed degradation than any other competitor
- Palmgren's line up of industrial grade bench grinders provide smooth, quiet power for all grinding, cleaning, deburring, chamfering and sharpening jobs
- Designed to handle heavy stock removal to finishing applications these powerful units are built for continuous, efficient use all day, every day
- Extended wheel-to-wheel clearance which allows longer items to be ground easily
- Dynamically balanced rotors and sealed bearings minimize vibration and ensure smooth running
- Large adjustable tool rests for safe, efficient tilt and angle grinding
- Adjustable safety eye shields and spark guards easily positioned with hurricane bolt
- Maximum performance, accuracy and value 9682061 comes with wheel guards with no dust collection ports
- Units fit Item # 9670101 or Item # 9686000 tool stands
- 3 Year Warranty
- F.O.B. WARREN, MI

Order No.	Regular Price	SALE
JB5582061	196.73	186.95

6267

KURT WORKHOLDING Power Lock Mechanical Drawbars



- A simple hand motion draws the pneumatic impact wrench onto the drawbar for positive torquing and untorquing
- Operates on standard 80 PSI, 3 CFM air supply
- Drawbar, tailored to fit your machine
- All mounting hardware
- Easy to understand installation
- Air filter and lubricator, regulator & gage unit
- 1 Year Warranty

Order No.	Regular Price	SALE
HT80AR6001	1000.13	899.95
HT80BR6000	940.39	845.95

6079



JET 2" x 42" Belt & Disc Sander



Features:

- Abrasive belt unit does the work of a jig-saw, copying saw or hand file
- Deluxe miter guage 45º both left and right
- Hinged idler wheel cover
- Cast iron construction
- Heavy-duty steel base and rubber feet
- Adjustable dust deflector and dust chute
- 2 Year Warranty

Specifications:

- 8" Disc Diameter
- 3,450 Disc Speed RPM
- 3,100 Belt Speed SFPM
- 10-3/4"L x 7-1/2"W Disc Table Size
- 45º Out Disc Table Tilt
- 45º Out Belt Table Tilt
- 10 x 6" Belt Table Size

Model No	Belt Width	Belt Length	Volt-age	Horse-power	Phase	Weight	Order No.	Regular Price	SALE
577004	2"	42"	115 V	3/4 hp	1 Phase	60 lbs	**PY60577004**	668.47	**649.00**

F.O.B. Lavergne, TN • JET BRAND PRODUCTS NOT AVAILABLE IN CANADA.

5959

RAPIDHOLD 5C Collet Sets

- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 1.041"-24
- External Thread 1.242"-20
- .0005" T.I.R



Diameter Range	Quan-tity	Number of Stands Included	Opening Shape	Order No.	Regular Price	SALE
1/16" - 1 1/8"	18	1	Round	**GP872308218**	291.44	**203.95**
1/16" - 1 1/8"	35	1	Round	**GP872308235**	568.91	**397.95**
1/16" - 1 1/8"	69	1	Round	**GP872308269**	1090.87	**763.95**

24553

PALMGREN INC Industrial Bench Top Sander

- 1" or 2" x 42" Belt, 6" Disc
- 1/3 HP, 3.5 amp motor, 120V; Belt speed 4400 FPM, Disc 3450 RPM
- Includes 1" & 2" belts, 6" disc, miter gauge, workstop
- Two Year Warranty
- Weight: 36 lbs.



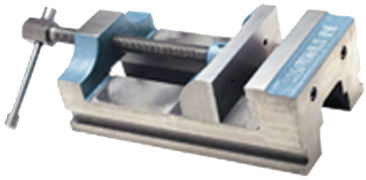
Order No.	Regular Price	SALE
JB5581061	313.12	**281.81**

F.O.B. Chicago, IL • UPS Dimensional Weight shipping rates apply

24361

PALMGREN INC 4" Drill Press Vise

- Can be used turned on either side or end
- Base and bed are parallel to 0.001 in
- Center of base is open
- Limited Warranty



Order No.	Regular Price	SALE
JB50DP35	132.87	**119.60**

24368

Mobil Vactra Numbered Series 2 & 4 Way Oil

- Helps eliminate chatter and stick-slip of slides and ways
- Improves finish and quality of parts
- Helps reduce wear and keeps sliding surfaces smooth, lubricated and clean
- Mobil Vactra Oil No. 2 is recommended for horizontal slideways on small to medium size machine tools. It is also suitable for flood application in large machines
- Mobil Vactra Oil No. 4 is the normal recommendation for large machines where way pressures are high or good precision is required. It is also recommended for vertical and inclined slideways where drain-down cohesion can be a problem
- Additional handling charges may apply



LK45VACTRA21



LK45VACTRA45

		Vactra No.2			Vactra No.4		
Container Size	SAE Grade	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 gallon	68	LK45VACTRA21	46.51	37.20	-	-	-
5 gallon	68	LK45VACTRA25	229.77	183.95	LK45VACTRA45	231.54	184.95

Available qty to purchase could be limited

8241

PRM PRO Cloth Wipers

- Recycled wiper cloths
- Made from cloth and flannel products
- White & color fabric



	25			50		
Description	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Pure White T-Shirt Wipers New lint free absorbent material	LM581010025	133.54	92.95	LM581010050	267.09	186.95
Colored t-shirt wipers soft, absorbent, for polishing and wiping	LM582020225	46.57	32.60	LM582020250	93.13	64.95
Flannel wipers soft, absorbent shirt/ pajama material 100% cotton	LM582020425	69.13	48.40	LM582020450	138.28	96.80
Colored sweat shirt wipers soft, absorbent, for polishing and wiping	LM582020625	50.19	35.15	LM582020650	97.36	68.15
Cotton terrycloth wipers absorbent reclaimed remnants assorted color/sizes	LM582020825	73.96	51.95	LM582020850	147.93	103.55
White reclaimed t-shirt wipers authentic non-synthetic material	LM582030525	67.13	47.00	LM582030550	134.26	93.95

2933