

**FEATURING**

**Mitutoyo**  
**DIGIMATIC CALIPERS**



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for more information



**Contender 7ga. Aramid  
Blend Cut-Resistant Glove**



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**A Brand® A-SFT®  
Spiral Flute Taps**



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**Solid Carbide End  
Mills**



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**Cordless Screwgun &  
Impact Driver Kit**



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**Resin Fiber Discs**



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## DPR™ 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	344.61	258.46

8744

## DPR™ Buy a Complete Boring Bar Set

Includes 4 Boring Bars and 20 TiN Coated Inserts

Set Includes: Boring Bar No. (1 ea.)  
Shank Size Minimum Bore

- TPBN 06-2 1/2 .430
- TPBN 08-2 1/2 .590
- TPBN 10-2 5/8 .682
- TPBN 12-3 3/4 .845
- (10) TPGH 21.51 inserts
- (10) TPGH 321 inserts
- (1) Torx key T7
- (1) Torx key T10
- (1) Storage case
- Note: Set includes TiN coated grade DPP30GT carbide inserts for general purpose alloy steel, stainless and ductile iron applications



Order No.	Regular Price	SALE
FL4543840	627.89	470.92

8663

## No. 10 Standard Set

No. 10 - est selling broach set.4 broaches & 9 bushings = 18 combinations



Bushings	Style	Order No.	Regular Price	SALE
1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-3/8 1-1/2	B C	FB5011104	431.60	415.64

9716

## No. 10A Standard Set

Same as No. 10 Set, but for sixteenth-sized bores.4 broaches & 9 bushings = 18 combinations



Bushings	Style	Order No.	Regular Price	SALE
9/16 11/16 13/16 15/16 1-1/16 1-3/16 1-5/16 1-7/16 1-9/16	B C	FB5011108	431.60	415.64

9719

## No. 10-10A Combination Set

Combines 10 and 10A sets.4 broaches & 18 bushings = 36 combinations



Bushings	Style	Order No.	Regular Price	SALE
1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-3/8 1-1/2 9/16 11/16 13/16 15/16 1-1/16 1-3/16 1-5/16 1-7/16 1-9/16	B C	FB5011120	554.20	533.71

9717

## No. 20 Combination Set

Same as No. 10-10A combination set, but adds a 5/16" keyway for 11 extra combinations.5 broaches & 18 bushings = 47 combinations



Bushings	Style	Order No.	Regular Price	SALE
1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-3/8 1-1/2 9/16 11/16 13/16 15/16 1-1/16 1-3/16 1-5/16 1-7/16 1-9/16	B C	FB5011121	638.60	614.99

9720

## MARXBORE Mechanics Drill Sets

List 383 - Black & Gold - 135° Point - 3/8" Reduced Shank

- Packaged in plastic clip-on index
- 29 Pcs.: 1/16" - 1/2" x 64ths



Order No.	Regular Price	SALE
MX1082146	160.14	104.09

29154

## PRECISION BRAND Blue Tempered Shim Stock

Branded® Shim from Precision Brand allows you to immediately identify your shim stock with precision accuracy.

- Thickness, width and tracking number clearly marked on shim
- Stock is high carbon 1095 hardened and tempered spring steel



Roll					
Width	Length	Thickness	Order No.	Regular Price	SALE
3"	50"	0.002"	MA5223110	64.61	51.70
3"	50"	0.003"	MA5223120	62.06	54.30
5"	50"	0.004"	MA5223130	67.00	58.60
6"	50"	0.005"	MA5223145	59.11	51.70
6"	50"	0.006"	MA5223155	64.36	51.50
6"	50"	0.007"	MA5223165	60.02	52.50

Sheet					
Width	Length	Thickness	Order No.	Regular Price	SALE
6"	25"	0.008"	MA5223170	76.64	61.30
6"	25"	0.010"	MA5223180	76.49	66.90
6"	25"	0.012"	MA5223200	78.87	69.00
6"	25"	0.015"	MA5223220	85.74	75.00
6"	25"	0.020"	MA5223240	99.78	87.20
6"	25"	0.025"	MA5223260	114.06	99.70
6"	25"	0.032"	MA5223280	126.40	110.50

24410

**Air-King Industrial Products 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 shipping rates apply



22691

Blade Size	Flow	Order No.	Regular Price	SALE
30"	8,780/7,480/5,570 CFM	PS559170	708.16	<b>424.90</b>
24"	5,770/5,250/4,270 CFM	PS559174	710.35	<b>426.21</b>

**42" Belt Drive High Volume MAN-COOLER®**

- 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	776.04	<b>582.03</b>

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

2442

**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	Max RPM	Horsepower	Shipping Weight	Order No.	Regular Price	SALE
12"	2295/2755/3390 CFM	1,600	1/16 hp	10.0 lbs	PS5078985	140.10	<b>105.08</b>
12"	1,448/1,165/953 CFM	1,500	1/16 hp	10.0 lbs	PS50C12LS	129.60	<b>94.58</b>
18"	2,966/2,437/2,013 CFM	1,600	1/8 hp	15.0 lbs	PS50C18LS	173.58	<b>130.19</b>

Rolling							
Blade Size	Flow	Max RPM	Horsepower	Shipping Weight	Order No.	Regular Price	SALE
18"	2,966/2,437/2,013 CFM	1,600	1/8 hp	23.0 lbs	PS50C18HS	224.95	<b>168.71</b>

2444

**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



Blade Size	Flow	Max. RPM	Horsepower	Shipping Weight	Order No.	Regular Price	SALE
30"	5,670/4,590/3,410 CFM	1,100	1/4 hp	97.0 lbs	PS50DD3041	554.98	<b>416.24</b>
36"	11,200/8,090 CFM	830	1/2 hp	119 lbs	PS50DD3641	664.73	<b>498.55</b>

2445

**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



PS50CA24WC

PS50CA24AP

Blade Size	Flow	Model	Order No.	Regular Price	SALE
24"	4,400/3,460/2,460 CFM	Adjustable Floor	PS50CA24AP	459.24	<b>344.43</b>
24"	4,400/3,460/2,460 CFM	Wall/Ceiling Mount	PS50CA24WC	360.39	<b>270.29</b>

22699

**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 shipping rates



PS50CA30WC

PS50CA30AP

Blade Size	Flow	Model	Order No.	Regular Price	SALE
30"	6,100/4,400/2,700 CFM	Adjustable Floor	PS50CA30AP	471.70	<b>353.78</b>
30"	6,100/4,400/2,700 CFM	Wall/Ceiling Mount	PS50CA30WC	380.63	<b>285.47</b>

22700

**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

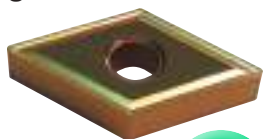


Order No.	Regular Price	SALE
KA408574GM	14.81	<b>11.11</b>

22761

## →RAPIDKUT→ Popular Turning Inserts for Steel

- Grade PT1225 is used for general machining in steel. Wide application range thanks to good wear resistance and toughness with improved chipping resistance.
- F43 Chipbreaker - For semi-finishing to medium machining in steel and alloy steel
- M46 Chipbreaker - For medium machining of carbon steel and alloy steel, suitable for continuous to interrupted machining



**SAVE 45%**

Insert Style	Insert Size	Inscribed Circle Diameter (IC)	Chip Breaker Type	Insert Thickness (S)	Corner Radius (RE)	Order No.	Regular Price	SALE
CNMG	431	1/2"	F43	0.187"	0.016"	RE1010270	8.84	<b>4.86</b>
CNMG	431	1/2"	M46	0.187"	0.016"	RE1010330	8.84	<b>4.86</b>
CNMG	432	1/2"	F43	0.187"	0.032"	RE1010420	8.84	<b>4.86</b>
CNMG	432	1/2"	M46	0.187"	0.032"	RE1010490	8.84	<b>4.86</b>
CNMG	433	1/2"	F43	0.187"	0.047"	RE1010590	8.84	<b>4.86</b>
CNMG	433	1/2"	M46	0.187"	0.047"	RE1010660	8.84	<b>4.86</b>
DNMG	432	1/2"	F43	0.187"	0.032"	RE1010970	10.99	<b>6.04</b>
DNMG	432	1/2"	M46	0.187"	0.032"	RE1011000	10.99	<b>6.04</b>
DNMG	433	1/2"	F43	0.187"	0.047"	RE1011020	10.99	<b>6.04</b>
SNMG	431	1/2"	M46	0.187"	0.016"	RE1011260	9.33	<b>5.13</b>
SNMG	432	1/2"	M46	0.187"	0.032"	RE1011380	9.33	<b>5.13</b>
SNMG	433	1/2"	M46	0.187"	0.047"	RE1011490	9.33	<b>5.13</b>
TNMG	331	3/8"	F43	0.187"	0.016"	RE1011750	10.63	<b>5.85</b>
TNMG	331	3/8"	M46	0.187"	0.016"	RE1011810	10.63	<b>5.85</b>
TNMG	332	3/8"	F43	0.187"	0.032"	RE1011890	10.63	<b>5.85</b>
TNMG	332	3/8"	M46	0.187"	0.032"	RE1011980	10.63	<b>5.85</b>
TNMG	333	3/8"	F43	0.187"	0.047"	RE1012040	10.63	<b>5.85</b>
TNMG	333	3/8"	M46	0.187"	0.047"	RE1012110	10.63	<b>5.85</b>
VNMG	331	3/8"	M46	0.187"	0.016"	RE1012390	11.15	<b>6.13</b>
VNMG	332	3/8"	M46	0.187"	0.032"	RE1012510	11.15	<b>6.13</b>
VNMG	333	3/8"	M46	0.187"	0.047"	RE1012610	11.15	<b>6.13</b>
WNMG	431	1/2"	F43	0.187"	0.016"	RE1012760	9.75	<b>5.36</b>
WNMG	431	1/2"	M46	0.187"	0.016"	RE1012820	9.75	<b>5.36</b>
WNMG	432	1/2"	F43	0.187"	0.032"	RE1012890	9.75	<b>5.36</b>
WNMG	432	1/2"	M46	0.187"	0.032"	RE1012980	9.75	<b>5.36</b>
WNMG	433	1/2"	F43	0.187"	0.047"	RE1013040	9.75	<b>5.36</b>
WNMG	433	1/2"	M46	0.187"	0.047"	RE1013160	9.75	<b>5.36</b>

22456

## →RAPIDKUT→ Turning Inserts for Stainless Steel

- Grade PT425 for general machining in and semi-finishing in stainless steel, low carbon steel and low carbon alloy steel.
- M42 chipbreaker for medium machining in stainless steel and low carbon steel
- Low cutting force with sharp-edged geometry
- Provides excellent toughness



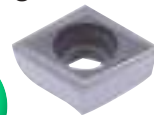
**SAVE 45%**

Insert Style	Insert Size	Chip Breaker Type	Insert Thickness (S)	Corner Radius (RE)	Order No.	Regular Price	SALE
CNMG	431	M42	0.187"	0.016"	RE1010250	8.84	<b>4.86</b>
CNMG	432	M42	0.187"	0.032"	RE1010400	8.84	<b>4.86</b>
CNMG	433	M42	0.187"	0.047"	RE1010570	8.84	<b>4.86</b>
DNMG	441	M42	1/4"	0.016"	RE1011050	12.39	<b>6.81</b>
DNMG	442	M42	1/4"	0.032"	RE1011060	12.39	<b>6.81</b>
DNMG	443	M42	1/4"	0.047"	RE1011070	12.39	<b>6.81</b>
SNMG	431	M42	0.187"	0.016"	RE1011200	9.33	<b>5.13</b>
SNMG	432	M42	0.187"	0.032"	RE1011310	9.33	<b>5.13</b>
SNMG	433	M42	0.187"	0.047"	RE1011420	9.33	<b>5.13</b>
TNMG	331	M42	0.187"	0.016"	RE1011730	10.63	<b>5.85</b>
TNMG	332	M42	0.187"	0.032"	RE1011870	10.63	<b>5.85</b>
TNMG	333	M42	0.187"	0.047"	RE1012020	10.63	<b>5.85</b>
WNMG	431	M42	0.187"	0.016"	RE1012740	9.75	<b>5.36</b>
WNMG	432	M42	0.187"	0.032"	RE1012870	9.75	<b>5.36</b>
WNMG	433	M42	0.187"	0.047"	RE1013020	9.75	<b>5.36</b>

22453

## →RAPIDKUT→ Aluminum Cutting Turning Inserts

- Grade NT9125
- Ideal for semi-finishing to roughing in aluminum alloys and other non-ferrous materials
- Offers high hardness and good wear resistance
- MAU chipbreaker offers low cutting force and excellent chip evacuation



**SAVE 45%**

Insert Style	Insert Size	Chip Breaker Type	Inscribed Circle Diameter (IC)	Insert Thickness (S)	Corner Radius (RE)	Order No.	Regular Price	SALE
CCGT	21.50.5	MAU	1/4"	0.094"	0.008"	RE1062610	8.84	<b>4.86</b>
CCGT	21.51	MAU	1/4"	0.094"	0.016"	RE1062620	8.84	<b>4.86</b>
CCGT	32.50.5	MAU	1/4"	0.156"	0.008"	RE1062630	9.49	<b>5.22</b>
CCGT	32.51	MAU	3/8"	0.156"	0.016"	RE1062640	9.49	<b>5.22</b>
CCGT	32.52	MAU	3/8"	0.156"	0.032"	RE1062650	9.49	<b>5.22</b>
CCGT	43.1	MAU	1/2"	0.187"	0.016"	RE1062660	12.04	<b>6.62</b>
CCGT	43.2	MAU	1/2"	0.187"	0.032"	RE1062670	12.04	<b>6.62</b>
DCGT	21.50.5	MAU	1/4"	0.094"	0.008"	RE1062680	9.07	<b>4.99</b>
DCGT	21.51	MAU	1/4"	0.094"	0.016"	RE1062690	9.07	<b>4.99</b>
DCGT	32.50.5	MAU	1/4"	0.156"	0.008"	RE1062700	10.08	<b>5.54</b>
DCGT	32.51	MAU	3/8"	0.156"	0.016"	RE1062710	10.08	<b>5.54</b>
DCGT	32.52	MAU	3/8"	0.156"	0.032"	RE1062720	10.08	<b>5.54</b>
SCGT	431	MAU	1/2"	0.187"	0.016"	RE1062730	12.04	<b>6.62</b>
SCGT	432	MAU	1/2"	0.187"	0.032"	RE1062740	12.04	<b>6.62</b>
TCGT	21.51	MAU	1/4"	0.094"	0.016"	RE1062750	8.51	<b>4.68</b>
TCGT	32.51	MAU	3/8"	0.156"	0.016"	RE1062760	10.27	<b>5.65</b>
TCGT	32.52	MAU	3/8"	0.156"	0.032"	RE1062770	10.27	<b>5.65</b>
VCGT	220.5	MAU	1/4"	1/8"	0.008"	RE1062780	11.42	<b>6.28</b>
VCGT	221	MAU	1/4"	1/8"	0.016"	RE1062790	11.42	<b>6.28</b>
VCGT	331	MAU	3/8"	0.187"	0.016"	RE1062800	14.29	<b>7.86</b>
VCGT	332	MAU	3/8"	0.187"	0.032"	RE1062810	14.29	<b>7.86</b>

22455

## TOOL FLO Flo-Lock/Chip-Flo Threading Inserts

FLT

- Carbide Grades:
- AC3 - PVD TiAlN for 300 series stainless steel and other high temp alloy steel in premium conditions
- GP50 - PVD TiN general purpose for standard steel



GP50C								
Product Name	Pitch TPI Internal (TPI Int)	Pitch TPI External (TPI Ext)	Corner Radius (RE)	Insert Thickness (S)	Insert to Shank Reference	Order No.	Reg-ular Price	SALE
FLT-3010L GP50C	5-12	6-18	0.009"   0.011"	0.195"	0.098"	FG31038240	19.37	<b>14.53</b>
FLT-3010R GP50C	5-12	6-18	0.009"   0.011"	0.195"	0.098"	FG31038280	19.37	<b>14.53</b>
FLT-2R GP50C	7-20	8-36	0.003"   0.005"	0.15"	0.075"	FG315040	16.90	<b>12.68</b>
FLT-2L GP50C	7-20	8-36	0.003"   0.005"	0.15"	0.075"	FG315041	16.90	<b>12.68</b>
FLT-3R GP50C	5-12	6-20	0.005"   0.008"	0.195"	0.098"	FG315042	17.59	<b>13.19</b>
FLT-3L GP50C	5-12	6-20	0.13"   0.2"	0.195"	0.098"	FG315043	17.59	<b>13.19</b>

AC3R								
Product Name	Pitch TPI Internal (TPI Int)	Pitch TPI External (TPI Ext)	Corner Radius (RE)	Insert Thickness (S)	Insert to Shank Reference	Order No.	Reg-ular Price	SALE
FLT-3010R AC3R	5-12	6-18	0.009"   0.011"	0.195"	0.098"	FG31038250	20.72	<b>15.54</b>
FLT-2L AC3R	7-20	8-36	0.003"   0.005"	0.15"	0.075"	FG31FLT2LA	18.26	<b>13.70</b>
FLT-2R AC3R	7-20	8-36	0.003"   0.005"	0.15"	0.075"	FG31FLT2RA	18.26	<b>13.70</b>
FLT-3L AC3R	5-12	6-20	0.13"   0.2"	0.195"	0.098"	FG31FLT3LA	18.96	<b>14.22</b>
FLT-3R AC3R	5-12	6-20	0.005"   0.008"	0.195"	0.098"	FG31FLT3RA	18.96	<b>14.22</b>

AC3A								
Product Name	Pitch TPI Internal (TPI Int)	Pitch TPI External (TPI Ext)	Corner Radius (RE)	Insert Thickness (S)	Insert to Shank Reference	Order No.	Reg-ular Price	SALE
FLT-4L AC3A	4-12	4-20	0.005"   0.008"	0.255"	0.128"	FG31038600	23.71	<b>17.78</b>
FLT-4R AC3A	4-12	4-20	0.005"   0.008"	0.255"	0.128"	FG31038620	23.71	<b>17.78</b>

GP50E								
Product Name	Pitch TPI Internal (TPI Int)	Pitch TPI External (TPI Ext)	Corner Radius (RE)	Insert Thickness (S)	Insert to Shank Reference	Order No.	Reg-ular Price	SALE
FLT-4L GP50E	4-12	4-20	0.005"   0.008"	0.255"	0.128"	FG315046	21.86	<b>16.40</b>
FLT-4R GP50E	4-12	4-20	0.005"   0.008"	0.255"	0.128"	FG315047	21.86	<b>16.40</b>

25299

**←RAPIDKUT→ DCLNR/L Toolholders**

- For turning, facing or contouring
- 95° lead angle
- Uses CNMG, CNMA, CNMP, CNGA or CNMM 80° diamond inserts
- Right hand shown, left hand opposite



Left Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4"	3/4"	4 1/2"	1.3"	1"	CN-432	PBCL4	DCLN-L124B	ME2420245	77.35	<b>58.01</b>
1"	1"	6"	1.6"	1-1/4"	CN-432	PBCL4	-	ME2420265	82.71	<b>62.03</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	CN-432	PBCL4	DCLN-L204D	ME2420285	93.32	<b>69.99</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	CN-543	PBCL5	DCLN-L205D	ME2420325	105.58	<b>79.19</b>
1 1/4"	1 1/4"	6"	1.8"	1-1/2"	CN-643	PBCL6	DCLN-L206D	ME2420345	106.76	<b>80.07</b>
2 1/2"	1 1/2"	6"	1.8"	2"	CN-543	PBCL5	DCLN-L245D	ME2420365	119.48	<b>89.61</b>
2 1/2"	1 1/2"	6"	1.8"	2"	CN-643	PBCL6	DCLN-L246D	ME2420385	121.75	<b>91.31</b>

Right Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4"	3/4"	4 1/2"	1.3"	1"	CN-432	PBCL4	DCLN-R124B	ME2420240	77.35	<b>58.01</b>
1"	1"	6"	1.6"	1-1/4"	CN-432	PBCL4	-	ME2420260	82.71	<b>62.03</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	CN-432	PBCL4	DCLN-R204D	ME2420280	93.32	<b>69.99</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	CN-543	PBCL5	DCLN-R205D	ME2420320	105.58	<b>79.19</b>
1 1/4"	1 1/4"	6"	1.8"	1-1/2"	CN-643	PBCL6	DCLN-R206D	ME2420340	106.76	<b>80.07</b>
2 1/2"	1 1/2"	6"	1.8"	2"	CN-543	PBCL5	DCLN-R245D	ME2420360	119.47	<b>89.60</b>
2 1/2"	1 1/2"	6"	1.8"	2"	CN-643	PBCL6	DCLN-R246D	ME2420380	121.75	<b>91.31</b>

9269

**←RAPIDKUT→ DDJNR/L Toolholders**

- For turning and profiling
- 3° lead angle
- Uses DNMG, DNMA, DNMP, DNGA or DNMM 55° diamond inserts
- Right hand shown, left hand opposite



Left Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4"	3/4"	4 1/2"	1.77"	1"	DN-432	PBCL4	DDJN-L124B	ME2421245	87.91	<b>65.93</b>
1"	1"	6"	1.6"	1-1/4"	DN-432	PBCL4	-	ME2421263	108.15	<b>81.11</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	DN-432	PBCL4	DDJN-L204D	ME2421285	120.61	<b>90.46</b>

Right Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4"	3/4"	4 1/2"	1.77"	1"	DN-432	PBCL4	DDJN-R124B	ME2421240	87.91	<b>65.93</b>
1"	1"	6"	1.6"	1-1/4"	DN-432	PBCL4	-	ME2421260	108.15	<b>81.11</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	DN-432	PBCL4	DDJN-R204D	ME2421280	120.61	<b>90.46</b>

9270

**←RAPIDKUT→ DSDNR/L Toolholders**

- For turning and chamfering
- 45° Cutting angle
- 0° Lead
- Uses SNMA, SNMG, SNMP, SNG or SNU inserts
- Right hand shown, left hand opposite



Left Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
1"	1"	6"	1.44"	1-1/4"	SN-432	PBCL4	-	ME2421305	100.01	<b>75.01</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	SN-543	PBCL5	DSDN-L205D	ME2421325	127.98	<b>95.99</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	SN-643	PBCL6	DSDN-L206D	ME2421345	134.11	<b>100.58</b>
2 1/2"	1 1/2"	6"	1.8"	2"	SN-543	PBCL5	DSDN-L245D	ME2421365	149.45	<b>112.09</b>
2 1/2"	1 1/2"	6"	1.8"	2"	SN-643	PBCL6	DSDN-L246D	ME2421385	149.45	<b>112.09</b>

Right Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
1"	1"	6"	1.44"	1-1/4"	SN-432	PBCL4	-	ME2421300	100.01	<b>75.01</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	SN-543	PBCL5	DSDN-R205D	ME2421320	127.98	<b>95.99</b>
1 1/4"	1 1/4"	6"	1.6"	1-1/2"	SN-643	PBCL6	DSDN-R206D	ME2421340	134.11	<b>100.58</b>
2 1/2"	1 1/2"	6"	1.8"	2"	SN-543	PBCL5	DSDN-R245D	ME2421360	149.45	<b>112.09</b>
2 1/2"	1 1/2"	6"	1.8"	2"	SN-643	PBCL6	DSDN-R246D	ME2421380	149.45	<b>112.09</b>

9271

**←RAPIDKUT→ DTJNR/L Toolholders**

- For turning and profiling
- 3° lead angle
- Uses TNMA, TNMG, TNMP, TNGA, TNMM, TNG or TNU inserts
- Right hand shown, left hand opposite



					Left Hand			Right Hand				
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1"	1"	6"	1"	1-1/4"	TN-332	PBCL3	ME2421405	85.08	<b>63.81</b>	ME2421400	85.08	<b>63.81</b>
1"	1"	6"	1"	1-1/4"	TN-432	PBCL4	ME2421425	85.08	<b>63.81</b>	ME2421420	85.08	<b>63.81</b>
1 1/4"	1 1/4"	6"	1"	1-1/2"	TN-543	PBCL5	ME2421445	107.84	<b>80.88</b>	ME2421440	107.84	<b>80.88</b>
1 1/4"	1 1/4"	6"	1"	1-1/2"	TN-643	PBCL5	ME2421465	110.31	<b>82.73</b>	ME2421460	110.31	<b>82.73</b>
2 1/2"	1 1/2"	6"	1"	2"	TN-543	PBCL5	ME2421485	121.64	<b>91.23</b>	ME2421480	121.64	<b>91.23</b>
2 1/2"	1 1/2"	6"	1"	2"	TN-643	PBCL6	ME2421505	126.38	<b>94.79</b>	ME2421500	126.38	<b>94.79</b>

9272

## ←RAPIDKUT→ DWLNR Toolholder

- 95° lead angle
- Uses WNMG, WNMP or WNMA inserts



Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4"	3/4"	4 1/2"	1"	1"	WN-432	PBCL4	DWLN-R124B	ME2421520	77.35	<b>58.01</b>
1"	1"	6"	1"	1-1/4"	WN-432	PBCL4	-	ME2421540	80.03	<b>60.02</b>
1 1/4"	1 1/4"	6"	1"	1-1/2"	WN-432	PBCL4	DWLN-R204D	ME2421560	94.91	<b>71.18</b>

9302

## ←RAPIDKUT→ Clamp Style Boring Bars

- Steel Shank • Coolant Thru • Style DCLNR
- 1/4-18 NPT Coupling size
- Right hand shown, left hand opposite



Con- nection Diameter Machine Side (DCONMS)	Mini- mum Bore Diam- eter (DMIN)	Func- tional Length (LF)	Master Insert Iden- tifica- tion (MIID)	Left Hand			Right Hand		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1"	1.200	10"	CN_432	ME2335125	213.73	<b>160.30</b>	ME2335120	213.73	<b>160.30</b>
1-1/4"	1.470	14"	CN_432	ME2335145	254.72	<b>191.04</b>	ME2335140	254.72	<b>191.04</b>
1-1/2"	1.760	14"	CN_432	ME2335165	295.66	<b>221.75</b>	ME2335160	295.66	<b>221.75</b>
2"	2.400	16"	CN_432	ME2335185	336.60	<b>252.45</b>	ME2335180	336.60	<b>252.45</b>
2"	2.400	16"	CN_543	ME2335205	352.93	<b>264.70</b>	ME2335200	352.93	<b>264.70</b>
2-1/2"	3.030	16"	CN_543	ME2335225	395.93	<b>296.95</b>	ME2335220	395.93	<b>296.95</b>
2-1/2"	3.030	16"	CN_643	ME2335245	414.27	<b>310.70</b>	ME2335240	414.27	<b>310.70</b>

9277

## ←RAPIDKUT→ Clamp Style Boring Bars

- Steel Shank • Coolant Thru • Style DDUNR
- 1/4-18 NPT Coupling size
- Right hand shown, left hand opposite



Con- nection Diameter Machine Side (DCONMS)	Mini- mum Bore Diam- eter (DMIN)	Func- tional Length (LF)	Master Insert Iden- tifica- tion (MIID)	Left Hand			Right Hand		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1-1/2"	2.000	14"	DN_432	ME2335265	295.66	<b>221.75</b>	ME2335260	295.66	<b>221.75</b>
2"	2.500	16"	DN_432	ME2335285	336.60	<b>252.45</b>	ME2335280	336.60	<b>252.45</b>

9278

## ←RAPIDKUT→ Clamp Style Boring Bars

- Steel Shank • Coolant Thru • Style DTFNR
- 1/4-18 NPT Coupling size
- Right hand shown, left hand opposite



Con- nection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Func- tional Length (LF)	Master Insert Iden- tifica- tion (MIID)	Left Hand			Right Hand		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1-1/4"	1.470	14"	TN_332	ME2335305	295.66	<b>221.75</b>	ME2335300	295.66	<b>221.75</b>
1-1/2"	1.760	14"	TN_432	ME2335325	336.60	<b>252.45</b>	ME2335320	336.60	<b>252.45</b>
2"	2.400	16"	TN_432	ME2335345	336.60	<b>252.45</b>	ME2335340	336.60	<b>252.45</b>
2"	2.400	16"	TN_543	ME2335365	352.93	<b>264.70</b>	ME2335360	352.93	<b>264.70</b>
2-1/2"	3.030	16"	TN_643	ME2335385	414.27	<b>310.70</b>	ME2335380	414.27	<b>310.70</b>

9279

## ←RAPIDKUT→ Clamp Style Boring Bars

- Steel Shank • Coolant Thru • Style DWL-NR
- 1/4-18 NPT Coupling size
- Right hand shown, left hand opposite



Con- nection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Func- tional Length (LF)	Master Insert Iden- tifica- tion (MIID)	Left Hand			Right Hand		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1-1/2"	1.760	14"	WN_432	ME2335405	295.66	<b>221.75</b>	ME2335400	295.66	<b>221.75</b>
2"	2.400	16"	WN_432	ME2335425	336.60	<b>252.45</b>	ME2335420	336.60	<b>252.45</b>

9280

**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



**SAVE  
35%**

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Corner Radius (RE) - 0.015"			Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"		
				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	28.83	<b>20.27</b>	-	-	-	-	-	-
3/16"	3/16"	9/16"	2"	DD4167511	38.71	<b>27.22</b>	-	-	-	-	-	-
1/4"	1/4"	3/4"	2-1/2"	DD4167525	43.65	<b>30.68</b>	DD4167526	43.65	<b>30.68</b>	-	-	-
1/4"	1/4"	1-1/4"	3"	DD4167531	51.50	<b>36.21</b>	DD4167532	51.50	<b>36.21</b>	-	-	-
1/4"	1/4"	1-3/4"	4"	DD4167547	61.32	<b>43.11</b>	DD4167548	61.32	<b>43.11</b>	-	-	-
5/16"	5/16"	13/16"	2-1/2"	DD4167099	54.35	<b>38.21</b>	DD4167100	54.35	<b>38.21</b>	-	-	-
3/8"	3/8"	1-1/4"	3"	DD4167133	82.70	<b>58.14</b>	DD4167134	82.70	<b>58.14</b>	-	-	-
3/8"	3/8"	2"	4"	DD4167165	102.00	<b>71.70</b>	DD4167166	102.00	<b>71.70</b>	-	-	-
1/2"	1/2"	5/8"	2-1/2"	-	-	-	DD4167206	100.20	<b>70.44</b>	-	-	-
1/2"	1/2"	1"	3"	DD4167214	101.57	<b>71.40</b>	DD4167215	101.57	<b>71.40</b>	DD4167216	101.57	<b>71.40</b>
1/2"	1/2"	1-1/4"	3"	DD4167223	105.37	<b>74.07</b>	DD4167224	105.37	<b>74.07</b>	DD4167225	105.37	<b>74.07</b>
5/8"	5/8"	3/4"	3"	-	-	-	DD4167278	160.13	<b>112.57</b>	-	-	-
5/8"	5/8"	1-3/8"	3-1/2"	-	-	-	DD4167288	165.93	<b>116.65</b>	DD4167289	165.93	<b>116.65</b>
5/8"	5/8"	2-1/8"	4"	-	-	-	DD4167298	199.14	<b>139.99</b>	DD4167299	215.37	<b>139.99</b>
3/4"	3/4"	1-5/8"	4"	-	-	-	DD4167358	278.61	<b>195.86</b>	DD4167359	278.61	<b>195.86</b>
3/4"	3/4"	2-3/8"	5"	-	-	-	DD4167368	318.28	<b>223.74</b>	-	-	-
1"	1"	1-3/4"	4"	-	-	-	DD4167408	440.69	<b>309.79</b>	DD4167409	440.69	<b>309.79</b>

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
- Optimized geometries, stronger cutting edges, superior balance
- 50° Helix creates a high shear plane for better efficiency and chip control
- AlTiN-X coating

**SAVE  
35%**



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	27.30	<b>19.19</b>
1/8"	1/8"	1/4"	1-1/2"	5	DD4069050	26.82	<b>18.85</b>
3/16"	3/16"	5/16"	2"	5	DD4069054	31.72	<b>22.30</b>
3/16"	3/16"	9/16"	2"	5	DD4069056	32.43	<b>22.80</b>
1/4"	1/4"	3/4"	2-1/2"	6	DD4069058	42.56	<b>29.92</b>
1/4"	1/4"	1-1/4"	3"	6	DD4069061	51.96	<b>36.53</b>
3/8"	3/8"	7/8"	2-1/2"	6	DD4069070	67.34	<b>47.34</b>
3/8"	3/8"	1-1/4"	3"	6	DD4069073	84.38	<b>59.32</b>
3/8"	3/8"	2"	4"	6	DD4069076	106.43	<b>74.82</b>
1/2"	1/2"	1"	3"	6	DD4069079	97.93	<b>68.84</b>
1/2"	1/2"	1-1/4"	3"	6	DD4069083	101.61	<b>71.43</b>
1/2"	1/2"	1-5/8"	3-1/2"	6	DD4069087	128.54	<b>90.36</b>
5/8"	5/8"	1-3/8"	3-1/2"	6	DD4069099	176.86	<b>124.33</b>
3/4"	3/4"	1-5/8"	4"	6	DD4069111	283.51	<b>199.30</b>
3/4"	3/4"	2-5/8"	5"	6	DD4069115	350.13	<b>246.14</b>

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
- 40° Helix
- AlCrNX coated

**SAVE  
35%**



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"			Corner Radius (RE) - 0.125"		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16"	3/16"	3/8"	2"	DD4463478	47.19	<b>33.38</b>	-	-	-	-	-	-
3/16"	3/16"	9/16"	2"	DD4463481	48.54	<b>34.13</b>	-	-	-	-	-	-
3/16"	3/16"	3/4"	2-1/2"	DD4463484	61.79	<b>43.44</b>	-	-	-	-	-	-
1/4"	1/4"	1/2"	2"	DD4463487	54.64	<b>38.41</b>	DD4463488	58.09	<b>40.83</b>	-	-	-
1/4"	1/4"	3/4"	2-1/2"	DD4463491	78.44	<b>41.27</b>	DD4463492	62.14	<b>43.69</b>	-	-	-
1/4"	1/4"	1"	3"	DD4463495	73.12	<b>51.40</b>	DD4463496	76.57	<b>53.83</b>	-	-	-
3/8"	3/8"	3/4"	2-1/2"	DD4463499	78.44	<b>55.14</b>	DD4463500	81.84	<b>57.53</b>	-	-	-
3/8"	3/8"	15/16"	2-1/2"	DD4463504	79.53	<b>55.91</b>	DD4463505	82.97	<b>58.32</b>	-	-	-
3/8"	3/8"	1-1/8"	3"	DD4463509	88.67	<b>62.33</b>	DD4463510	92.12	<b>64.76</b>	-	-	-
3/8"	3/8"	1-1/2"	3-1/2"	DD4463514	111.55	<b>78.42</b>	DD4463515	115.00	<b>80.84</b>	-	-	-
1/2"	1/2"	1"	3"	DD4463517	117.09	<b>82.31</b>	DD4463518	120.53	<b>84.73</b>	DD4463520	127.93	<b>89.93</b>
1/2"	1/2"	1-1/4"	3-1/4"	DD4463215	129.91	<b>91.33</b>	DD4463216	133.53	<b>93.87</b>	DD4463218	141.32	<b>99.35</b>
1/2"	1/2"	1-1/2"	3-1/2"	DD4463527	141.86	<b>92.21</b>	DD4463528	134.60	<b>94.62</b>	DD4463530	142.01	<b>99.83</b>
1/2"	1/2"	1-3/4"	4"	DD4463220	146.87	<b>103.25</b>	-	-	-	DD4463238	157.74	<b>110.89</b>
1/2"	1/2"	2"	4"	DD4463537	153.99	<b>108.25</b>	DD4463538	157.44	<b>110.68</b>	DD4463540	164.84	<b>115.88</b>
1/2"	1/2"	2-1/4"	4"	DD4463542	169.94	<b>119.46</b>	DD4463543	173.39	<b>121.89</b>	DD4463545	180.79	<b>127.09</b>
5/8"	5/8"	1-1/4"	3-1/2"	DD4463547	217.82	<b>153.12</b>	DD4463548	221.75	<b>155.89</b>	DD4463550	230.24	<b>161.85</b>
5/8"	5/8"	1-9/16"	4"	DD4463242	239.99	<b>168.71</b>	DD4463244	244.00	<b>171.53</b>	DD4463247	252.42	<b>177.44</b>
5/8"	5/8"	1-7/8"	4"	DD4463559	243.16	<b>170.94</b>	DD4463560	247.03	<b>173.65</b>	DD4463562	255.53	<b>179.63</b>
5/8"	5/8"	2-3/16"	4-1/2"	DD4463258	279.38	<b>196.40</b>	DD4463262	283.13	<b>199.04</b>	DD4463264	291.74	<b>205.09</b>
5/8"	5/8"	2-1/2"	4"	DD4463569	316.16	<b>222.25</b>	DD4463570	319.87	<b>224.86</b>	DD4463571	327.93	<b>230.53</b>
3/4"	3/4"	1-1/2"	4"	DD4463573	301.73	<b>212.11</b>	DD4463574	305.60	<b>214.83</b>	DD4463575	313.98	<b>220.72</b>
3/4"	3/4"	1-7/8"	4-1/2"	DD4463270	347.73	<b>244.45</b>	DD4463271	352.09	<b>247.51</b>	DD4463275	361.45	<b>254.09</b>
3/4"	3/4"	2-1/4"	5"	DD4463586	371.47	<b>261.13</b>	DD4463587	375.46	<b>263.94</b>	DD4463589	384.10	<b>270.02</b>
3/4"	3/4"	2-5/8"	5"	DD4463593	386.54	<b>271.73</b>	DD4463594	390.47	<b>274.49</b>	DD4463596	398.07	<b>280.53</b>
3/4"	3/4"	3"	6"	DD4463598	448.47	<b>315.26</b>	DD4463599	452.32	<b>317.97</b>	DD4463600	460.67	<b>323.84</b>

9795

# CUTTING TOOLS

## 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



**SAVE 50%**

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	44.70	<b>22.35</b>
3/16"	3/16"	2"	7/16"	4	CE60C80109	57.92	<b>28.96</b>
1/4"	1/4"	2-1/2"	3/4"	4	CE60C80110	70.34	<b>35.17</b>
5/16"	5/16"	2-1/2"	13/16"	4	CE60C80111	82.06	<b>41.03</b>
3/8"	3/8"	2-1/2"	7/8"	4	CE60C80112	100.85	<b>50.43</b>
7/16"	7/16"	3"	1"	4	CE60C80113	128.95	<b>64.48</b>
1/2"	1/2"	2-1/2"	5/8"	4	CE60C80114	130.36	<b>65.18</b>
1/2"	1/2"	3"	1"	4	CE60C80115	137.01	<b>68.51</b>
5/8"	5/8"	3-1/2"	1-1/4"	4	CE60C80116	220.74	<b>110.37</b>
3/4"	3/4"	4"	1-1/2"	4	CE60C80117	321.88	<b>160.94</b>
1"	1"	5"	2-1/4"	4	CE60C80118	604.36	<b>302.18</b>

29537

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

• Style #HGC-4C-TC



**SAVE 50%**

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	44.43	<b>22.22</b>
1/4"	3/8"	3-9/16"	1-3/4"	4	CE60C32718	50.44	<b>25.22</b>
9/32"	3/8"	3-1/8"	1-3/8"	4	CE60C32674	43.63	<b>21.82</b>
5/16"	3/8"	3-1/8"	1-3/8"	4	CE60C32675	46.92	<b>23.46</b>
5/16"	3/8"	3-3/4"	2"	4	CE60C32720	56.20	<b>28.10</b>
3/8"	3/8"	3-1/4"	1-1/2"	4	CE60C32677	43.89	<b>21.95</b>
3/8"	3/8"	4-1/4"	2-1/2"	4	CE60C32722	58.90	<b>29.45</b>
7/16"	3/8"	3-3/4"	1-3/4"	4	CE60C32679	56.25	<b>28.13</b>
1/2"	1/2"	3-1/4"	1-1/4"	6	CE60C32634	52.20	<b>26.10</b>
1/2"	1/2"	3-1/4"	1-1/4"	4	CE60C32633	47.17	<b>23.59</b>
5/8"	5/8"	3-3/4"	1-5/8"	4	CE60C32635	93.19	<b>46.60</b>
5/8"	5/8"	4-5/8"	2-1/2"	4	CE60C32682	126.63	<b>63.32</b>
3/4"	3/4"	3-7/8"	1-5/8"	4	CE60C32637	119.16	<b>59.58</b>
3/4"	3/4"	6-1/4"	4"	4	CE60C32728	192.04	<b>96.02</b>
7/8"	7/8"	5-3/4"	3-1/2"	4	CE60C32685	152.22	<b>76.11</b>
1/2"	1/2"	4"	2"	4	CE60C32681	61.67	<b>30.84</b>
1"	1"	4-1/2"	2"	4	CE60C32639	160.27	<b>80.14</b>
1"	1"	6-1/2"	4"	4	CE60C32687	250.82	<b>125.41</b>

29531

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

• Style #HG-4C-TC



**SAVE 50%**

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	40.03	<b>20.02</b>
5/32"	3/8"	2-3/8"	1/2"	4	CE60C33242	40.48	<b>20.24</b>
3/16"	3/8"	2-3/8"	1/2"	4	CE60C33244	36.48	<b>18.24</b>
3/16"	3/8"	3-1/16"	1-1/4"	4	CE60C33406	39.95	<b>19.98</b>
3/16"	3/8"	3-9/16"	1-3/4"	4	CE60C33457	44.30	<b>22.15</b>
7/32"	3/8"	2-7/16"	5/8"	4	CE60C33246	36.98	<b>18.49</b>
7/32"	3/8"	3-1/16"	1-1/4"	4	CE60C33407	48.87	<b>24.44</b>
1/4"	3/8"	2-7/16"	5/8"	4	CE60C33248	36.98	<b>18.49</b>
1/4"	3/8"	3-1/16"	1-1/4"	4	CE60C33408	47.37	<b>23.69</b>
17/64"	3/8"	2-1/2"	3/4"	4	CE60C33249	41.75	<b>20.88</b>
5/16"	3/8"	2-1/2"	3/4"	4	CE60C33252	37.56	<b>18.78</b>
5/16"	3/8"	3-1/8"	1-3/8"	4	CE60C33410	50.81	<b>25.41</b>
21/64"	3/8"	2-1/2"	3/4"	4	CE60C33253	42.99	<b>21.50</b>
11/32"	3/8"	3-1/4"	1-1/2"	4	CE60C33411	46.50	<b>23.25</b>
23/64"	3/8"	2-1/2"	3/4"	4	CE60C33255	41.75	<b>20.88</b>
3/8"	3/8"	4-1/4"	2-1/2"	4	CE60C33463	61.92	<b>30.96</b>
13/32"	3/8"	2-11/16"	1"	4	CE60C33258	52.56	<b>26.28</b>
27/64"	3/8"	2-11/16"	1"	4	CE60C33259	67.21	<b>33.61</b>
7/16"	3/8"	2-11/16"	1"	4	CE60C33260	56.93	<b>28.47</b>
7/16"	1/2"	3-3/4"	1-3/4"	4	CE60C33414	59.11	<b>29.56</b>
15/32"	1/2"	3-1/4"	1-1/4"	4	CE60C33262	58.14	<b>29.07</b>
1/2"	3/8"	2-11/16"	1"	4	CE60C33264	52.62	<b>26.31</b>
1/2"	1/2"	3-1/4"	1-1/4"	4	CE60C33265	51.13	<b>25.57</b>
1/2"	1/2"	4"	2"	4	CE60C33416	66.77	<b>33.39</b>
17/32"	1/2"	3-3/8"	1-3/8"	4	CE60C33266	93.35	<b>46.68</b>
9/16"	1/2"	3-3/8"	1-3/8"	4	CE60C33267	102.32	<b>51.16</b>
5/8"	1/2"	3-3/8"	1-3/8"	4	CE60C33269	92.34	<b>46.17</b>
5/8"	5/8"	3-3/4"	1-5/8"	4	CE60C33270	90.63	<b>45.32</b>
21/32"	5/8"	3-3/4"	1-5/8"	4	CE60C33271	105.45	<b>52.73</b>
11/16"	5/8"	3-3/4"	1-5/8"	4	CE60C33273	105.45	<b>52.73</b>
3/4"	1/2"	3-5/8"	1-5/8"	4	CE60C33275	111.26	<b>55.63</b>
3/4"	3/4"	3-7/8"	1-5/8"	4	CE60C33277	108.00	<b>54.00</b>
3/4"	3/4"	5-1/4"	3"	4	CE60C33418	139.65	<b>69.83</b>
3/4"	3/4"	6-1/4"	4"	4	CE60C33469	172.58	<b>86.29</b>
7/8"	7/8"	4-1/8"	1-7/8"	4	CE60C33283	138.56	<b>69.28</b>
1"	3/4"	4-1/8"	1-7/8"	4	CE60C33288	162.01	<b>81.01</b>
1"	1"	4-1/2"	2"	4	CE60C33290	162.01	<b>81.01</b>

29532

## 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



**SAVE 50%**

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	37.29	<b>18.65</b>
1/8"	1/8"	1-1/2"	3/8"	4	CE60C80003	36.68	<b>18.34</b>
1/8"	1/8"	1-1/2"	1/2"	4	CE60C80005	38.47	<b>19.24</b>
3/16"	3/16"	2"	3/8"	4	CE60C80007	38.78	<b>19.39</b>
3/16"	3/16"	2"	7/16"	4	CE60C80009	41.98	<b>20.99</b>
3/16"	3/16"	2-1/2"	3/4"	4	CE60C80011	51.56	<b>25.78</b>
1/4"	1/4"	2"	1/2"	4	CE60C80013	47.42	<b>23.71</b>
1/4"	1/4"	2-1/2"	3/4"	4	CE60C80015	58.10	<b>29.05</b>
1/4"	1/4"	3"	1-1/8"	4	CE60C80018	63.79	<b>31.90</b>
1/4"	1/4"	3"	1-1/4"	4	CE60C80020	69.83	<b>34.92</b>
5/16"	5/16"	2"	1/2"	4	CE60C80021	71.71	<b>35.86</b>
5/16"	5/16"	2-1/2"	13/16"	4	CE60C80023	77.31	<b>38.66</b>
5/16"	5/16"	3"	1-1/4"	4	CE60C80025	86.02	<b>43.01</b>
3/8"	3/8"	2"	5/8"	4	CE60C80027	78.87	<b>39.44</b>
3/8"	3/8"	2-1/2"	7/8"	4	CE60C80029	84.95	<b>42.48</b>
3/8"	3/8"	3"	1-1/8"	4	CE60C80031	105.96	<b>52.98</b>
3/8"	3/8"	4"	2"	4	CE60C80033	125.04	<b>62.52</b>
7/16"	7/16"	2-1/2"	5/8"	4	CE60C80035	108.87	<b>54.44</b>
7/16"	7/16"	3"	1"	4	CE60C80037	118.75	<b>59.38</b>
7/16"	7/16"	4"	2"	4	CE60C80039	130.86	<b>65.43</b>
1/2"	1/2"	2-1/2"	5/8"	4	CE60C80040	125.35	<b>62.68</b>
1/2"	1/2"	3"	1"	4	CE60C80043	132.50	<b>66.25</b>
1/2"	1/2"	3"	1-1/4"	4	CE60C80048	122.49	<b>61.25</b>
1/2"	1/2"	4"	2"	4	CE60C80054	165.71	<b>82.86</b>
5/8"	5/8"	3"	3/4"	4	CE60C80059	193.51	<b>96.76</b>
5/8"	5/8"	3-1/2"	1-1/4"	4	CE60C80061	216.39	<b>108.20</b>
5/8"	5/8"	5"	2-1/4"	4	CE60C80066	294.31	<b>147.16</b>
3/4"	3/4"	3"	1"	4	CE60C80072	290.48	<b>145.24</b>
3/4"	3/4"	4"	1-1/2"	4	CE60C80074	306.62	<b>153.31</b>
3/4"	3/4"	5"	2-1/4"	4	CE60C80079	428.49	<b>214.25</b>
1"	1"	4"	1-1/2"	4	CE60C80084	519.06	<b>259.53</b>
1"	1"	5"	2-1/4"	4	CE60C80089	634.70	<b>317.35</b>
1"	1"	6"	3"	4	CE60C80094	656.77	<b>328.39</b>

29536



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

### Materials

• Style #CEM-AM3-ZN



**SAVE 50%**

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	30.84	<b>15.42</b>
3/16"	3/16"	2"	5/16"	3	CE60C72342	36.89	<b>18.45</b>
3/16"	3/16"	2"	9/16"	3	CE60C72343	40.45	<b>20.23</b>
1/4"	1/4"	2-1/2"	3/4"	3	CE60C72345	51.86	<b>25.93</b>
5/16"	5/16"	3-1/2"	1-1/4"	3	CE60C72349	82.97	<b>41.49</b>
3/8"	3/8"	2"	1/2"	3	CE60C72351	57.66	<b>28.83</b>
3/8"	3/8"	2-1/2"	1"	3	CE60C72352	72.75	<b>36.38</b>
3/8"	3/8"	3-1/2"	1-1/2"	3	CE60C72353	95.08	<b>47.54</b>
1/2"	1/2"	2-1/2"	5/8"	3	CE60C72358	104.56	<b>52.28</b>
1/2"	1/2"	3"	1-1/4"	3	CE60C72359	128.73	<b>64.37</b>
1/2"	1/2"	4"	2"	3	CE60C72360	142.02	<b>71.01</b>
5/8"	5/8"	5"	2-1/2"	3	CE60C72364	290.23	<b>145.12</b>
3/4"	3/4"	3"	1"	3	CE60C72366	266.02	<b>133.01</b>
3/4"	3/4"	4"	5/8"	3	CE60C72367	313.19	<b>156.60</b>

29864

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

• Style #HGC-2



**SAVE 50%**

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	23.98	<b>11.99</b>
3/8"	3/8"	2-3/4"	1"	2	CE60C75128	32.09	<b>16.05</b>
3/8"	3/8"	3-1/4"	1-1/2"	2	CE60C75129	37.56	<b>18.78</b>
1/2"	1/2"	2-11/16"	3/16"	2	CE60C75130	32.67	<b>16.34</b>
1/2"	1/2"	3-1/2"	1-1/2"	2	CE60C75131	39.96	<b>19.98</b>
1/2"	1/2"	4"	2"	2	CE60C75132	45.56	<b>22.78</b>
9/16"	9/16"	3-3/8"	1-1/8"	2	CE60C75133	65.35	<b>32.68</b>
5/8"	5/8"	3-3/8"	1-1/8"	2	CE60C75134	62.96	<b>31.48</b>
3/4"	3/4"	3-5/8"	1-5/16"	2	CE60C75135	69.64	<b>34.82</b>
7/8"	7/8"	4"	1-1/2"	2	CE60C75158	102.34	<b>51.17</b>
7/8"	7/8"	4-1/8"	1-1/2"	2	CE60C75159	104.09	<b>52.05</b>
1"	1"	4"	1-1/2"	2	CE60C75160	121.60	<b>60.80</b>
1"	1"	4-1/8"	1-1/2"	2	CE60C75161	117.41	<b>58.71</b>
1"	1"	5-1/2"	3"	2	CE60C75163	158.32	<b>79.16</b>

29862

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

• Style #HGC-4C



**SAVE 50%**

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	44.08	<b>22.04</b>
9/32"	3/8"	3-1/8"	1-3/8"	4	CE60C32647	38.08	<b>19.04</b>
5/16"	3/8"	3-1/8"	1-3/8"	4	CE60C32648	39.32	<b>19.66</b>
5/16"	3/8"	3-3/4"	2"	4	CE60C32693	48.21	<b>24.11</b>
3/8"	3/8"	3-1/4"	1-1/2"	4	CE60C42857	37.23	<b>18.62</b>
3/8"	3/8"	4-1/4"	2-1/2"	4	CE60C42913	50.18	<b>25.09</b>
7/16"	3/8"	3-3/4"	1-3/4"	4	CE60C32651	48.21	<b>24.11</b>
1/2"	1/2"	4"	2"	4	CE60C42861	51.88	<b>25.94</b>
5/8"	5/8"	3-3/4"	1-5/8"	4	CE60C42703	79.67	<b>39.84</b>
5/8"	5/8"	4-5/8"	2-1/2"	4	CE60C42864	120.13	<b>60.07</b>
3/4"	3/4"	3-7/8"	1-5/8"	4	CE60C42707	101.32	<b>50.66</b>
3/4"	3/4"	6-1/4"	4"	4	CE60C42924	163.67	<b>81.84</b>
7/8"	7/8"	5-3/4"	3-1/2"	4	CE60C32653	128.04	<b>64.02</b>
1"	1"	4-1/2"	2"	4	CE60C42715	137.10	<b>68.55</b>
1"	1"	6-1/2"	4"	4	CE60C42876	223.66	<b>111.83</b>
1-1/2"	1-1/4"	10-1/2"	8"	4	CE60C32698	649.73	<b>324.87</b>
1-1/2"	1-1/4"	10-1/2"	8"	6	CE60C32699	680.67	<b>340.34</b>

29540

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

• Style #HGC-2-TN



**SAVE 50%**

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	26.84	<b>13.42</b>
3/8"	3/8"	2-3/4"	1"	2	CE60C75138	35.96	<b>17.98</b>
3/8"	3/8"	3-1/4"	1-1/2"	2	CE60C75139	42.08	<b>21.04</b>
1/2"	1/2"	2-11/16"	3/16"	2	CE60C75140	36.61	<b>18.31</b>
1/2"	1/2"	3-1/2"	1-1/2"	2	CE60C75141	44.74	<b>22.37</b>
1/2"	1/2"	4"	2"	2	CE60C75142	51.03	<b>25.52</b>
9/16"	9/16"	3-3/8"	1-1/8"	2	CE60C75143	73.18	<b>36.59</b>
5/8"	5/8"	3-3/8"	1-1/8"	2	CE60C75144	70.52	<b>35.26</b>
3/4"	3/4"	3-5/8"	1-5/16"	2	CE60C75145	77.98	<b>38.99</b>
7/8"	7/8"	4"	1-1/2"	2	CE60C75167	114.62	<b>57.31</b>
7/8"	7/8"	4-1/8"	1-1/2"	2	CE60C75168	116.60	<b>58.30</b>
1"	1"	4"	1-1/2"	2	CE60C75169	136.22	<b>68.11</b>
1"	1"	4-1/8"	1-1/2"	2	CE60C75170	131.49	<b>65.75</b>
1"	1"	5-1/2"	3"	2	CE60C75172	177.32	<b>88.66</b>

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



**SAVE 50%**

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	32.80	<b>16.40</b>
3/16"	3/16"	2"	7/16"	5	CE60C80527	46.21	<b>23.11</b>
3/16"	3/16"	2-1/2"	3/4"	5	CE60C80529	48.44	<b>24.22</b>
1/4"	1/4"	2"	1/2"	5	CE60C80531	44.94	<b>22.47</b>
1/4"	1/4"	2-1/2"	3/4"	5	CE60C80533	61.08	<b>30.54</b>
1/4"	1/4"	3"	1-1/4"	5	CE60C80537	76.22	<b>38.11</b>
5/16"	5/16"	2"	1/2"	5	CE60C80538	68.20	<b>34.10</b>
5/16"	5/16"	2-1/2"	13/16"	5	CE60C80540	68.60	<b>34.30</b>
5/16"	5/16"	3"	1-1/4"	5	CE60C80542	77.44	<b>38.72</b>
3/8"	3/8"	2"	5/8"	5	CE60C80545	75.17	<b>37.59</b>
3/8"	3/8"	2-1/2"	7/8"	5	CE60C80547	79.08	<b>39.54</b>
3/8"	3/8"	3"	1-1/8"	5	CE60C80549	107.02	<b>53.51</b>
3/8"	3/8"	4"	2"	5	CE60C80551	109.78	<b>54.89</b>
7/16"	7/16"	2-1/2"	5/8"	5	CE60C80553	101.35	<b>50.68</b>
7/16"	7/16"	3"	1"	5	CE60C80555	114.14	<b>57.07</b>
7/16"	7/16"	4"	2"	5	CE60C80557	133.65	<b>66.83</b>
1/2"	1/2"	2-1/2"	5/8"	5	CE60C80558	102.53	<b>51.27</b>
1/2"	1/2"	3"	1"	5	CE60C80560	111.83	<b>55.92</b>
1/2"	1/2"	3"	1-1/4"	5	CE60C80565	127.13	<b>63.57</b>
1/2"	1/2"	4"	2"	5	CE60C80571	161.70	<b>80.85</b>
5/8"	5/8"	3"	3/4"	5	CE60C80576	192.16	<b>96.08</b>
5/8"	5/8"	3-1/2"	1-1/4"	5	CE60C80578	204.69	<b>102.35</b>
5/8"	5/8"	5"	2-1/4"	5	CE60C80583	298.04	<b>149.02</b>
3/4"	3/4"	3"	1"	5	CE60C80588	244.98	<b>122.49</b>
3/4"	3/4"	4"	1-1/2"	5	CE60C80590	297.31	<b>148.66</b>
3/4"	3/4"	5"	2-1/4"	5	CE60C80595	381.54	<b>190.77</b>
1"	1"	4"	1-1/2"	5	CE60C80600	479.95	<b>239.98</b>
1"	1"	5"	2-1/4"	5	CE60C80605	578.09	<b>289.05</b>
1"	1"	6"	3"	5	CE60C80610	760.23	<b>380.12</b>

29538

# CUTTING TOOLS

## A Brand® AE-BD-H High Performance Carbide Ball Nose End Mills

Stub Length - 2 Flute

- List 8410
- Inch
- DUOREY Coating



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/32"	1/4"	0.031"	1-1/2"	TP4684100023	59.47	<b>47.58</b>
1/16"	1/4"	0.063"	1-1/2"	TP4684100123	59.47	<b>47.58</b>
3/32"	1/4"	0.094"	1-1/2"	TP4684100223	59.47	<b>47.58</b>
1/8"	1/4"	1/8"	2"	TP4684100323	59.47	<b>47.58</b>
3/16"	1/4"	0.188"	2-1/2"	TP4684100423	62.87	<b>50.30</b>
1/4"	1/4"	1/4"	3"	TP4684100523	62.87	<b>50.30</b>
5/16"	5/16"	5/16"	3-1/2"	TP4684100623	95.04	<b>76.03</b>
3/8"	3/8"	3/8"	3-1/2"	TP4684100723	109.92	<b>87.94</b>
1/2"	1/2"	1/2"	4"	TP4684100823	160.31	<b>128.25</b>

29329

## A Brand® AE-BD-H High Performance Carbide Ball Nose End Mills

Stub Length - 2 Flute - Metric Sizes

- List 8510
- For High Hardness Steels
- DUOREY Coating



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1 mm	4 mm	0.8 mm	50 mm	TP463042001	39.39	<b>31.51</b>
1.5 mm	4 mm	1.2 mm	50 mm	TP463042002	47.47	<b>37.98</b>
2 mm	6 mm	1.6 mm	50 mm	TP463042003	35.93	<b>28.74</b>
3 mm	6 mm	2.4 mm	60 mm	TP463042004	42.90	<b>34.32</b>
4 mm	4 mm	3.4 mm	60 mm	TP463042005	48.68	<b>38.94</b>
4 mm	6 mm	3.4 mm	70 mm	TP463042006	48.68	<b>38.94</b>
5 mm	6 mm	4.2 mm	80 mm	TP463042008	57.43	<b>45.94</b>
6 mm	6 mm	9 mm	90 mm	TP463042010	59.64	<b>47.71</b>
8 mm	8 mm	12 mm	100 mm	TP463042012	89.54	<b>71.63</b>
10 mm	10 mm	15 mm	100 mm	TP463042014	112.03	<b>89.62</b>
12 mm	12 mm	18 mm	110 mm	TP463042016	160.24	<b>128.19</b>
0.2 mm	4 mm	0.16 mm	40 mm	TP4685100023	64.76	<b>51.81</b>
0.8 mm	4 mm	0.6 mm	40 mm	TP4685100123	42.85	<b>34.28</b>
1.4 mm	4 mm	1.1 mm	50 mm	TP4685100223	76.48	<b>61.18</b>
2.5 mm	4 mm	2 mm	50 mm	TP4685100323	59.69	<b>47.75</b>

29331

## A Brand® AE-BD-H High Performance Carbide Ball Nose End Mills

Regular Length - 4 Flute - Fractional Sizes

- List 8430
- For High Hardness Steels
- DUOREY Coating



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/8"	1/8"	1/8"	2"	TP4684300023	77.92	<b>62.34</b>
3/16"	3/16"	0.188"	2-1/2"	TP4684300123	82.37	<b>65.90</b>
1/4"	1/4"	1/4"	3-1/2"	TP4684300223	82.37	<b>65.90</b>
5/16"	5/16"	5/16"	4"	TP4684300323	124.50	<b>99.60</b>
3/8"	3/8"	3/8"	4"	TP4684300423	144.01	<b>115.21</b>
1/2"	1/2"	1/2"	4-3/8"	TP4684300523	210.00	<b>168.00</b>

29330

## A Brand® AE-BM-H High Performance Carbide Ball Nose End Mills

Regular Length - 4 Flute - Metric Sizes

- List 8530
- For High Hardness Steels
- DUOREY Coating



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
2 mm	6 mm	2 mm	50 mm	TP468549602	77.44	<b>61.95</b>
3 mm	6 mm	3 mm	50 mm	TP468549603	68.77	<b>55.02</b>
4 mm	6 mm	4 mm	60 mm	TP468549604	68.77	<b>55.02</b>
5 mm	6 mm	5 mm	60 mm	TP468549605	85.33	<b>68.26</b>
6 mm	6 mm	9 mm	60 mm	TP468549606	85.33	<b>68.26</b>
8 mm	8 mm	12 mm	70 mm	TP468549608	100.73	<b>80.58</b>
10 mm	10 mm	15 mm	80 mm	TP468549610	129.08	<b>103.26</b>
12 mm	12 mm	18 mm	90 mm	TP468549612	159.44	<b>127.55</b>
1 mm	4 mm	2 mm	50 mm	TP4685300023	89.10	<b>71.28</b>
1.5 mm	4 mm	3 mm	50 mm	TP4685300123	83.28	<b>66.62</b>
2.5 mm	6 mm	5 mm	60 mm	TP4685300223	77.60	<b>62.08</b>

29332

## A Brand® - AE-VMS Advanced Performance Anti-Vibration Carbide End Mills

Square End - Multiple Lengths - Fractional Sizes

- List 8200
- Variable Helix
- Center Cutting
- Duarise Coating



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Overall Length (OAL)	Order No.	Regular Price	SALE
3/16"	3/16"	7/16"	4	2"	TP4682000021	28.28	<b>22.62</b>
5/16"	5/16"	13/16"	4	2-1/2"	TP4682000421	49.09	<b>39.27</b>
3/8"	3/8"	1/2"	4	2-1/2"	TP4682000621	58.44	<b>46.75</b>
7/16"	7/16"	1"	4	2-3/4"	TP4682001021	79.99	<b>63.99</b>
1/2"	1/2"	1"	4	3"	TP4682001421	90.59	<b>72.47</b>
1/2"	1/2"	1-1/4"	4	3-1/2"	TP4682001621	93.51	<b>74.81</b>
5/8"	5/8"	3/4"	4	3"	TP4682001821	171.80	<b>137.44</b>
5/8"	5/8"	1-5/8"	4	5"	TP4682002221	205.59	<b>164.47</b>
3/4"	3/4"	7/8"	4	3-1/2"	TP4682002421	221.55	<b>177.24</b>
3/4"	3/4"	1-1/2"	4	4"	TP4682002621	247.84	<b>198.27</b>
3/4"	3/4"	1-5/8"	4	4"	TP4682002821	259.09	<b>207.27</b>
1"	1"	1-1/2"	4	4"	TP4682003021	374.57	<b>299.66</b>
1"	1"	2"	4	5"	TP4682003221	398.02	<b>318.42</b>
1"	1"	2-1/2"	4	5"	TP4682003421	423.38	<b>338.70</b>
5/64"	1/8"	0.117"	4	2"	TP4682004421	21.90	<b>17.52</b>
3/32"	1/8"	9/64"	4	2"	TP4682004621	21.90	<b>17.52</b>
7/64"	1/8"	0.164"	4	2"	TP4682004821	22.06	<b>17.65</b>
1/8"	1/8"	3/16"	4	2"	TP4682005021	21.25	<b>17.00</b>
9/64"	3/16"	0.211"	4	2"	TP4682005221	30.69	<b>24.55</b>
5/32"	3/16"	15/64"	4	2"	TP4682005421	25.82	<b>20.66</b>

29316

## A Brand® - AE-VMS Advanced Performance Anti-Vibration Carbide End Mills

Square End - Multiple Lengths - Metric Sizes

- List 8205
- Variable Helix
- Center Cutting
- Duarise Coating



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Overall Length (OAL)	Order No.	Regular Price	SALE
3 mm	6 mm	8 mm	4	60 mm	TP468555830	45.91	<b>36.73</b>
4 mm	6 mm	11 mm	4	60 mm	TP468555840	41.78	<b>33.42</b>
5 mm	6 mm	13 mm	4	60 mm	TP468555850	42.15	<b>33.72</b>
6 mm	6 mm	13 mm	4	60 mm	TP468555860	39.71	<b>31.77</b>
8 mm	8 mm	19 mm	4	70 mm	TP468555880	47.50	<b>38.00</b>
10 mm	10 mm	22 mm	4	80 mm	TP468555900	67.49	<b>53.99</b>
12 mm	12 mm	26 mm	4	90 mm	TP468555920	98.57	<b>78.86</b>
16 mm	16 mm	32 mm	4	100 mm	TP468555960	190.57	<b>152.46</b>
20 mm	20 mm	40 mm	4	110 mm	TP468556000	248.78	<b>199.02</b>
25 mm	25 mm	50 mm	4	120 mm	TP468556010	397.85	<b>318.28</b>

29317

## A Brand® AE-VMSS Advanced Performance Anti-Vibration Carbide End Mills

Square End - Stub Length - Metric Sizes

- List 8206
- Variable Helix
- Center Cutting
- Duarise Coating



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Overall Length (OAL)	Order No.	Regular Price	SALE
3 mm	6 mm	4.5 mm	4	45 mm	TP468556430	45.91	<b>36.73</b>
4 mm	6 mm	6 mm	4	45 mm	TP468556440	41.78	<b>33.42</b>
5 mm	6 mm	7.5 mm	4	45 mm	TP468556450	40.18	<b>32.14</b>
6 mm	6 mm	9 mm	4	45 mm	TP468556460	37.93	<b>30.34</b>
8 mm	8 mm	12 mm	4	60 mm	TP468556480	45.17	<b>36.14</b>
10 mm	10 mm	15 mm	4	70 mm	TP468556500	61.68	<b>49.34</b>
12 mm	12 mm	18 mm	4	75 mm	TP468556520	93.88	<b>75.10</b>

29323

## Tuffcut® 4 Flute Solid Carbide End Mills

- Series 158 - Neck Relief - Altima® Coated
- Designed for drilling soft metals as well as glass reinforced circuit boards, phenolic-epoxies and other abrasive materials



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Corner Radius (RE)	Neck Length (LN)	Order No.	Regular Price	SALE
2 mm	6 mm	3 mm	63 mm	0.1mm	6	DD1699150	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	63 mm	0.2mm	6	DD1699155	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	63 mm	0.1mm	8	DD1699151	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	63 mm	0.2mm	8	DD1699156	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	63 mm	0.5mm	8	DD1699160	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	63 mm	0.1mm	12	DD1699152	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	63 mm	0.2mm	12	DD1699157	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	63 mm	0.1mm	16	DD1699153	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	63 mm	0.2mm	16	DD1699158	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	75 mm	0.1mm	20	DD1699154	53.20	<b>32.88</b>
2 mm	6 mm	3 mm	75 mm	0.2mm	20	DD1699159	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	63 mm	0.2mm	10	DD1699161	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	63 mm	0.5mm	10	DD1699167	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	63 mm	0.8mm	10	DD1699173	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	63 mm	0.2mm	12	DD1699162	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	63 mm	0.5mm	12	DD1699168	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	63 mm	0.2mm	16	DD1699163	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	63 mm	0.5mm	16	DD1699169	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	75 mm	0.2mm	20	DD1699164	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	75 mm	0.5mm	20	DD1699170	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	75 mm	0.2mm	25	DD1699165	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	75 mm	0.5mm	25	DD1699171	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	75 mm	0.2mm	30	DD1699166	53.20	<b>32.88</b>
3 mm	6 mm	5 mm	75 mm	0.5mm	30	DD1699172	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	63 mm	0.2mm	10	DD1699174	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	63 mm	0.5mm	10	DD1699180	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	63 mm	0.2mm	12	DD1699175	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	63 mm	0.5mm	12	DD1699181	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	63 mm	1 mm	12	DD1699186	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	63 mm	0.2mm	16	DD1699176	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	63 mm	0.5mm	16	DD1699182	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	75 mm	0.2mm	20	DD1699177	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	75 mm	0.5mm	20	DD1699183	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	75 mm	0.2mm	25	DD1699178	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	75 mm	0.5mm	25	DD1699184	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	75 mm	0.2mm	30	DD1699179	53.20	<b>32.88</b>
4 mm	6 mm	6 mm	75 mm	0.5mm	30	DD1699185	53.20	<b>32.88</b>
6 mm	6 mm	9 mm	75 mm	0.3mm	20	DD1699187	57.47	<b>35.51</b>
6 mm	6 mm	9 mm	75 mm	0.5mm	20	DD1699188	57.47	<b>35.51</b>
6 mm	6 mm	9 mm	75 mm	1 mm	20	DD1699189	57.47	<b>35.51</b>
6 mm	6 mm	9 mm	75 mm	1.5 mm	20	DD1699190	57.47	<b>35.51</b>
6 mm	6 mm	9 mm	100 mm	0.3mm	30	DD1699191	57.86	<b>35.76</b>
6 mm	6 mm	9 mm	100 mm	0.5mm	30	DD1699192	57.86	<b>35.76</b>
6 mm	6 mm	9 mm	100 mm	1 mm	30	DD1699193	57.86	<b>35.76</b>
6 mm	6 mm	9 mm	100 mm	1.5 mm	30	DD1699194	57.86	<b>35.76</b>
8 mm	8 mm	12 mm	75 mm	0.3mm	30	DD1699195	69.37	<b>42.87</b>
8 mm	8 mm	12 mm	75 mm	0.5mm	30	DD1699196	69.37	<b>42.87</b>
8 mm	8 mm	12 mm	75 mm	1 mm	30	DD1699197	69.37	<b>42.87</b>
8 mm	8 mm	12 mm	75 mm	2 mm	30	DD1699198	69.37	<b>42.87</b>
8 mm	8 mm	12 mm	100 mm	0.3mm	40	DD1699199	75.53	<b>46.68</b>
8 mm	8 mm	12 mm	100 mm	0.5mm	40	DD1699200	75.53	<b>46.68</b>
8 mm	8 mm	12 mm	100 mm	1 mm	40	DD1699201	75.53	<b>46.68</b>
8 mm	8 mm	12 mm	100 mm	2 mm	40	DD1699202	75.53	<b>46.68</b>
8 mm	8 mm	12 mm	120 mm	0.3mm	50	DD1699203	97.44	<b>60.22</b>
8 mm	8 mm	12 mm	120 mm	0.5mm	50	DD1699204	97.44	<b>60.22</b>
8 mm	8 mm	12 mm	120 mm	1 mm	50	DD1699205	97.44	<b>60.22</b>
8 mm	8 mm	12 mm	120 mm	2 mm	50	DD1699206	97.44	<b>60.22</b>
10 mm	10 mm	15 mm	75 mm	0.3mm	30	DD1699207	78.26	<b>48.37</b>
10 mm	10 mm	15 mm	75 mm	0.5mm	30	DD1699208	78.26	<b>48.37</b>
10 mm	10 mm	15 mm	75 mm	1 mm	30	DD1699209	78.26	<b>48.37</b>
10 mm	10 mm	15 mm	75 mm	2 mm	30	DD1699210	78.26	<b>48.37</b>
10 mm	10 mm	15 mm	100 mm	0.3mm	50	DD1699211	97.68	<b>60.37</b>
10 mm	10 mm	15 mm	100 mm	0.5mm	50	DD1699212	97.68	<b>60.37</b>
10 mm	10 mm	15 mm	100 mm	1 mm	50	DD1699213	97.68	<b>60.37</b>
10 mm	10 mm	15 mm	100 mm	2 mm	50	DD1699214	97.68	<b>60.37</b>
10 mm	10 mm	15 mm	130 mm	0.3mm	60	DD1699215	133.28	<b>82.37</b>
10 mm	10 mm	15 mm	130 mm	0.5mm	60	DD1699216	133.28	<b>82.37</b>
10 mm	10 mm	15 mm	130 mm	1 mm	60	DD1699217	133.28	<b>82.37</b>
10 mm	10 mm	15 mm	130 mm	2 mm	60	DD1699218	133.28	<b>82.37</b>
12 mm	12 mm	18 mm	100 mm	0.3mm	40	DD1699219	130.31	<b>80.53</b>
12 mm	12 mm	18 mm	100 mm	1 mm	40	DD1699220	130.31	<b>80.53</b>
12 mm	12 mm	18 mm	100 mm	2 mm	40	DD1699221	130.31	<b>80.53</b>
12 mm	12 mm	18 mm	140 mm	0.3mm	60	DD1699222	175.17	<b>108.26</b>
12 mm	12 mm	18 mm	140 mm	1 mm	60	DD1699223	175.17	<b>108.26</b>
12 mm	12 mm	18 mm	140 mm	2 mm	60	DD1699224	175.17	<b>108.26</b>
16 mm	16 mm	24 mm	100 mm	0.3mm	50	DD1699225	174.72	<b>107.98</b>
16 mm	16 mm	24 mm	100 mm	1 mm	50	DD1699226	174.72	<b>107.98</b>
16 mm	16 mm	24 mm	100 mm	3 mm	50	DD1699227	174.72	<b>107.98</b>
16 mm	16 mm	24 mm	150 mm	0.3mm	70	DD1699228	233.38	<b>144.23</b>
16 mm	16 mm	24 mm	150 mm	1 mm	70	DD1699229	233.38	<b>144.23</b>
16 mm	16 mm	24 mm	150 mm	3 mm	70	DD1699230	233.38	<b>144.23</b>

29251

## Long Shank T-Slot Milling Cutters

- High speed steel or M42 cobalt
- Right hand cut
- Straight shank



Cutting Diameter (DC)	Cutting Width (CW)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	HSS			HSSCo		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1"	1/8"	5/8"	4-15/16"	DS9610294	108.25	<b>95.14</b>	DS9620294	139.75	<b>122.82</b>
1-1/2"	1/8"	1"	5-5/16"	DS9610308	167.35	<b>147.08</b>	DS9620308	214.95	<b>188.94</b>
1-1/4"	1/8"	3/4"	5-1/8"	DS9610301	144.20	<b>126.75</b>	DS9620301	174.80	<b>153.64</b>
1"	3/16"	5/8"	4-15/16"	DS9610295	108.25	<b>95.14</b>	DS9620295	139.75	<b>122.82</b>
1-1/2"	3/16"	1"	5-5/16"	DS9610309	167.35	<b>147.08</b>	DS9620309	214.95	<b>188.94</b>
1-1/4"	3/16"	3/4"	5-1/8"	DS9610302	144.20	<b>126.75</b>	DS9620302	174.80	<b>153.64</b>
2"	3/16"	1"	5-11/16"	DS9610315	283.00	<b>248.75</b>	DS9620315	333.30	<b>292.94</b>
1"	1/4"	5/8"	4-15/16"	DS9610296	108.25	<b>95.14</b>	DS9620296	139.75	<b>122.82</b>
1-1/2"	1/4"	1"	5-5/16"	DS9610310	167.35	<b>147.08</b>	DS9620310	214.95	<b>188.94</b>
1-1/4"	1/4"	3/4"	5-1/8"	DS9610303	144.20	<b>126.75</b>	DS9620303	174.80	<b>153.64</b>
2"	1/4"	1"	5-11/16"	DS9610316	283.00	<b>248.75</b>	DS9620316	333.30	<b>292.94</b>
1"	5/16"	5/8"	4-15/16"	DS9610297	108.25	<b>95.14</b>	DS9620297	139.75	<b>122.82</b>
1-1/2"	5/16"	1"	5-5/16"	DS9610311	167.35	<b>147.08</b>	DS9620311	214.95	<b>188.94</b>
1-1/4"	5/16"	3/4"	5-1/8"	DS9610304	144.20	<b>126.75</b>	DS9620304	174.80	<b>153.64</b>
2"	5/16"	1"	5-11/16"	DS9610317	283.00	<b>248.75</b>	DS9620317	333.30	<b>292.94</b>
1"	3/8"	5/8"	4-15/16"	DS9610298	108.25	<b>95.14</b>	DS9620298	139.75	<b>122.82</b>
1-1/2"	3/8"	1"	5-5/16"	DS9610312	167.35	<b>147.08</b>	DS9620312	214.95	<b>188.94</b>
1-1/4"	3/8"	3/4"	5-1/8"	DS9610305	144.20	<b>126.75</b>	DS9620305	174.80	<b>153.64</b>
2"	3/8"	1"	5-11/16"	DS9610318	283.00	<b>248.75</b>	DS9620318	333.30	<b>292.94</b>
1"	1/2"	5/8"	4-15/16"	DS9610299	108.25	<b>95.14</b>	DS9620299	139.75	<b>122.82</b>
1-1/2"	1/2"	1"	5-5/16"	DS9610313	167.35	<b>147.08</b>	DS9620313	214.95	<b>188.94</b>
1-1/4"	1/2"	3/4"	5-1/8"	DS9610306	144.20	<b>126.75</b>	DS9620306	174.80	<b>153.64</b>
2"	1/2"	1"	5-11/16"	DS9610319	283.00	<b>248.75</b>	DS9620319	333.30	<b>292.94</b>
1"	5/8"	5/8"	4-15/16"	DS9610300	108.25	<b>95.14</b>	DS9620300	139.75	<b>122.82</b>
1-1/2"	5/8"	1"	5-5/16"	DS9610314	167.35	<b>147.08</b>	DS9620314	214.95	<b>188.94</b>
1-1/4"	5/8"	3/4"	5-1/8"	DS9610307	144.20	<b>126.75</b>	DS9620307	174.80	<b>153.64</b>
2"	5/8"	1"	5-11/16"	DS9610320	283.00	<b>248.75</b>	DS9620320	333.30	<b>292.94</b>
2"	3/4"	1"	5-11/16"	DS9610321	283.00	<b>248.75</b>	DS9620321	333.30	<b>292.94</b>

10667

## PRO-CUT Corner Rounding End Mill Sets

High Speed Steel & Cobalt - 8 Pc. Sets



Diameter Range	Cutting Edge Material	Order No.	Regular Price	SALE
1/16"R x 3/8"   3/32R x 3/8"   1/8"R x 1/2"   5/32R x 1/2"   3/16"R x 1/2"   1/4"R x 1/2"   5/16"R x 1/2"   3/8"R x 1/2"	HSS	DK50RC	248.18	<b>136.50</b>
3/16"R x 3/4"   1/4"R x 3/4"   5/16"R x 3/4"   3/8"R x 3/4"   7/16"R x 3/4"   1/2"R x 3/4"   5/8"R x 3/4"   3/4"R x 3/4"	HSS	DK50RC34	494.92	<b>272.21</b>
1/16"R x 3/8"   3/32R x 3/8"   1/8"R x 1/2"   5/32R x 1/2"   3/16"R x 1/2"   1/4"R x 1/2"   5/16"R x 1/2"   3/8"R x 1/2"	HSSCo	DK55RCCO	280.25	<b>202.06</b>

† Has 3/4" shanks

10300

# CUTTING TOOLS

## 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	7.79	<b>6.42</b>
#1	1/8"	1-1/4"	AV4110100	5.43	<b>4.47</b>
#2	3/16"	1-7/8"	AV4110200	5.67	<b>4.67</b>
#3	1/4"	2"	AV4110300	5.91	<b>4.87</b>
#4	5/16"	2-1/8"	AV4110400	6.09	<b>5.02</b>
#4.5	3/8"	2-1/2"	AV4114500	8.40	<b>6.92</b>
#5	7/16"	2-3/4"	AV4110500	9.67	<b>7.97</b>
#6	1/2"	3"	AV4110600	14.54	<b>11.98</b>
#7	5/8"	3-1/4"	AV4110700	22.05	<b>18.17</b>
#8	3/4"	3-1/2"	AV4110800	30.29	<b>24.96</b>
#9	7/8"	3-5/8"	AV4110900	54.96	<b>45.29</b>
#10	1"	3-3/4"	AV4111000	72.14	<b>59.44</b>

22469

## INTERNAL TOOL Solid Carbide Dovetail Cutters

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



Connection Diameter Machine Side (DCONMS)	Cutting Diameter (DC)	Overall Length (OAL)	Number of Teeth	Angle	Uncoated			AlTiN		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	2"	3	60 Degrees	GE97861095	50.32	<b>42.77</b>	GE97861095C	52.13	<b>44.31</b>
3/16"	3/16"	2-1/2"	3	60 Degrees	GE97861100	56.70	<b>48.20</b>	GE97861100C	58.13	<b>50.26</b>
1/4"	1/4"	2-1/2"	4	60 Degrees	GE97861105	60.37	<b>51.31</b>	GE97861105C	65.24	<b>55.45</b>
0.312"	5/16"	2-1/2"	4	60 Degrees	GE97861107	63.13	<b>53.66</b>	GE97861107C	72.21	<b>61.38</b>
3/8"	3/8"	2-1/2"	5	60 Degrees	GE97861110	64.96	<b>55.22</b>	GE97861110C	70.39	<b>59.83</b>
1/2"	1/2"	3"	6	60 Degrees	GE97861115	79.83	<b>67.86</b>	GE97861115C	89.51	<b>76.08</b>
5/8"	5/8"	3-1/2"	6	60 Degrees	GE97861117	104.01	<b>88.41</b>	GE97861117C	117.95	<b>100.26</b>
3/4"	3/4"	4"	6	60 Degrees	GE97861118	139.76	<b>118.80</b>	GE97861118C	151.90	<b>129.12</b>

30137

## 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



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	90 Degrees			60 Degrees		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/32"	3/32"	1-1/2"	BC5420680	13.18	<b>10.54</b>	BC5420620	13.18	<b>10.54</b>
1/8"	1/8"	1-1/2"	BC5422249	17.17	<b>13.74</b>	BC5422250	17.17	<b>13.74</b>
3/16"	3/16"	2"	BC5420682	25.44	<b>20.35</b>	BC5420622	25.44	<b>20.35</b>
1/4"	1/4"	2"	BC5422412	32.41	<b>25.93</b>	BC5422411	32.41	<b>25.93</b>
5/16"	1/4"	2-1/4"	BC5420688	33.12	<b>26.50</b>	BC5420628	33.12	<b>26.50</b>
3/8"	1/4"	2-1/4"	BC5420689	35.39	<b>28.31</b>	BC5420629	35.39	<b>28.31</b>
1/2"	1/4"	2-1/4"	BC5420693	37.47	<b>29.98</b>	BC5420633	37.47	<b>29.98</b>
1/2"	3/8"	2-1/8"	BC5420694	37.47	<b>29.98</b>	BC5420634	37.47	<b>29.98</b>
5/8"	1/4"	2-3/8"	BC5420699	41.49	<b>33.19</b>	BC5420639	41.49	<b>33.19</b>
5/8"	3/8"	2-3/8"	BC5420700	41.49	<b>33.19</b>	BC5420640	41.49	<b>33.19</b>
3/4"	1/2"	2-11/16"	BC5420704	69.73	<b>55.78</b>	BC5420644	69.73	<b>55.78</b>
1"	1/2"	2-13/16"	BC5420710	139.48	<b>111.58</b>	BC5420650	139.48	<b>111.58</b>

10572

## 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



SAVE 35%

Range	Included	Type	Order No.	Regular Price	SALE
3-5.5 mm	Steel Handle / R1 Blade	Mini-Reversible Set	FN55RC1000	29.64	<b>19.27</b>
5-10 mm	Steel Handle / R2 Blade	Medium-Reversible Set	FN55RC2000	29.64	<b>19.27</b>
10-22 mm	Steel Handle / R3 Blade	Large-Reversible Set	FN55RC2200	35.31	<b>22.95</b>
3.5 - 22 mm	Set of all 3	Mini, Medium, Large	FN55RC3300	94.61	<b>61.50</b>

24089

## Countersink, Holders and Blades



SAVE 35%

Included	Order No.	Regular Price	SALE
NogaGrip 3 Handle / C Holder / C20 Countersink Blade (20 mm)	FN55NG3100	32.65	<b>21.22</b>

22470

## Uniflute® Countersinks

High Speed Steel

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



SAVE 30%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	82 Degrees			90 Degrees		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	1/4"	2"	BC7061056	9.83	<b>7.11</b>	BC7061061	9.83	<b>7.11</b>
3/8"	1/4"	2"	BC7061081	11.17	<b>8.08</b>	BC7061086	11.17	<b>8.08</b>
1/2"	1/4"	2"	BC7061106	13.61	<b>9.84</b>	BC7061111	13.61	<b>9.84</b>
5/8"	1/4"	2-1/4"	BC7061131	18.17	<b>13.15</b>	BC7061136	18.17	<b>13.15</b>
3/4"	1/2"	2-3/4"	BC7061156	26.53	<b>19.19</b>	BC7061161	26.53	<b>19.19</b>
1"	1/2"	2-3/4"	BC7061181	44.19	<b>31.96</b>	BC7061186	44.19	<b>31.96</b>
1-1/4"	1/2"	3"	BC7061206	86.45	<b>62.54</b>	BC7061211	86.45	<b>62.54</b>
1-1/2"	3/4"	3-1/2"	BC7061221	117.05	<b>84.67</b>	BC7061226	117.05	<b>84.67</b>

23769

†Straight shank with tang drive.

## PRO-CUT Single Flute Countersinks

High Speed Steel 60°, 82° & 90°



SAVE 60%

Cutting Diameter (DC)	Overall Length (OAL)	60 Degrees			82 Degrees			90 Degrees		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16"	1-1/2"	BC52RF360	4.97	<b>1.99</b>	BC52RF382	4.97	<b>1.99</b>	BC52RF390	4.93	<b>1.97</b>
1/4"	2"	BC52RF460	5.29	<b>2.12</b>	BC52RF482	5.29	<b>2.12</b>	BC52RF490	5.29	<b>2.12</b>
5/16"	2"	BC52RF560	5.47	<b>2.19</b>	BC52RF582	5.47	<b>2.19</b>	BC52RF590	5.47	<b>2.19</b>
3/8"	2"	BC52RF660	5.96	<b>2.38</b>	BC52RF682	5.96	<b>2.38</b>	BC52RF690	5.96	<b>2.38</b>
1/2"	2"	BC52RF860	7.78	<b>3.11</b>	BC52RF882	7.78	<b>3.11</b>	BC52RF890	7.78	<b>3.11</b>
5/8"	2-1/2"	BC52RF1060	10.64	<b>4.26</b>	BC52RF1082	10.64	<b>4.26</b>	BC52RF1090	10.64	<b>4.26</b>
3/4"	2-3/4"	BC52RF1260	14.43	<b>5.77</b>	BC52RF1282	14.43	<b>5.77</b>	BC52RF1290	14.43	<b>5.77</b>
7/8"	2-3/4"	BC52RF1460	23.35	<b>9.34</b>	BC52RF1482	23.35	<b>9.43</b>	BC52RF1490	23.35	<b>9.43</b>
1"	2-3/4"	BC52RF1660	25.32	<b>10.13</b>	BC52RF1682	25.32	<b>10.13</b>	BC52RF1690	25.32	<b>10.13</b>
1-1/4"	3"	BC52RF2060	38.50	<b>15.40</b>	BC52RF2082	38.50	<b>15.40</b>	BC52RF2090	38.50	<b>15.40</b>
1-1/2"	3-3/8"	BC52RF2460	59.96	<b>23.98</b>	BC52RF2482	60.52	<b>24.21</b>	BC52RF2490	60.52	<b>24.21</b>
2"	3-3/4"	BC52RF3260	98.16	<b>39.26</b>	BC52RF3282	99.09	<b>39.64</b>	BC52RF3290	99.09	<b>39.64</b>

24491

## Replacement Blades



**SAVE 35%**

Product Name	Blade Type	Shaviv Equivalent	Order No.	Regular Price	SALE
Deburring Blade, for Steel, Plastic and Aluminum	B10CO	None	FN55B10CO	2.60	<b>1.69</b>
Deburring Blade-TiN Coated, HSS-HD, for Very Small Holes	S150-TiN	None	FN55BK3112	4.02	<b>2.61</b>
Deburring Blade, for Steel, Plastic and Aluminum	N1	B10	FN55N1	2.03	<b>1.32</b>
Deburring Blade, for Steel, Plastic and Aluminum	N1C	B10C	FN55N1C	7.30	<b>4.75</b>
Deburring Blade, for Steel, Plastic and Aluminum	N1D	None	FN55N1D	12.36	<b>8.03</b>
Deburring Blade, left handed, for Steel, Plastic and Aluminum	N1LH	None	FN55N1LH	2.87	<b>1.87</b>
Deburring Blade, for High Wear Materials	N1TiN	B10P	FN55N1TiN	2.65	<b>1.72</b>
Deburring Blade, for Brass and Cast Iron	N2	B20	FN55N2	2.04	<b>1.33</b>
Deburring Blade, for Brass and Cast Iron	N2C	B20C	FN55N2C	7.31	<b>4.75</b>
Deburring Blade, to Remove External & Internal Burrs	N3	B30	FN55N3	2.62	<b>1.70</b>
Deburring Blade, for Inside Cross Holes & Back	N6	B60	FN55N6	3.93	<b>2.55</b>
Deburring Blade, for Steel, Aluminum and Plastic	S10	E100	FN55S10	2.72	<b>1.77</b>
NOGA S100 COBALT HD BLADE	S100	None	FN55S100	3.09	<b>2.01</b>
Deburring Blade, HSS-HD, for Small Holes	S101	None	FN55S101	2.76	<b>1.79</b>
Deburring Blade, left handed, for Small Holes	S101LH	None	FN55S101LH	3.25	<b>2.11</b>
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10D	None	FN55S10D	12.70	<b>8.26</b>
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10LH	None	FN55S10LH	3.67	<b>2.39</b>
NOGA S10TiN HD BLADE TiN	S10TiN	E100P	FN55S10TiN	3.42	<b>2.22</b>
NOGA S150 HEAVY DUTY	S150	None	FN55S150	3.08	<b>2.00</b>
Deburring Blade, HSS-HD, for Brass and Cast Iron	S20	E200	FN55S20	2.91	<b>1.89</b>
Deburring Blade, for Fine Point for Brass & Cast Iron	S202	None	FN55S202	3.08	<b>2.00</b>
Deburring Blade, for Removing External & Internal Burrs	S30	E300	FN55S30	2.93	<b>1.90</b>
Deburring Blade, HSS-HD, for Straight Edges	S35	E350	FN55S35	2.97	<b>1.93</b>
Deburring Blade, for Inside Cross Hole & Back	S60	E600	FN55S60	4.14	<b>2.69</b>

24088

## NG Handles & S & N Holders



**SAVE 35%**

For Use With	Type	Order No.	Regular Price	SALE
N Blades	N Blade Holder	FN55EL01003	6.88	<b>4.47</b>
S Blades	S Blade Holder	FN55EL02003	6.88	<b>4.47</b>
S Blades	NG-1 Handle	FN55NG1000	8.60	<b>5.59</b>
N Blades	NG-2 Handle	FN55NG2000	8.84	<b>5.75</b>
All Blade Holders	NG-3 Handle	FN55NG3000	8.84	<b>5.75</b>

24075

## Adjustable Scraper

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



**SAVE 35%**

Application	Order No.	Regular Price	SALE
Scraping, Trimming, Deburring	FN55SC8000	20.01	<b>13.01</b>

24094

## 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

Quantity	60 Degrees			90 Degrees			82 Degrees			100 Degrees			90 Degrees, TiN			60 Degrees, TiN			82 Degrees, TiN		
	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	100.88	<b>78.18</b>	BC7579013	100.88	<b>78.18</b>	BC7579008	100.88	<b>78.18</b>	BC7579019	100.88	<b>78.18</b>	BC7579384	138.77	<b>107.55</b>	BC7579380	138.77	<b>107.55</b>	BC7579382	138.77	<b>107.55</b>
7	BC7579001	146.79	<b>113.76</b>	BC7579011	146.79	<b>113.76</b>	BC7579006	146.79	<b>113.76</b>	BC7579016	146.79	<b>113.76</b>	-	-	-	-	-	-	-	-	-

9905

## 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



**SAVE 35%**

Order No.	Regular Price	SALE
FN55DB1000	23.23	<b>15.10</b>

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



**SAVE 35%**

Order No.	Regular Price	SALE
FN55007	60.00	<b>39.00</b>

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



**SAVE 35%**

Order No.	Regular Price	SALE
FN55PV1000	57.63	<b>37.46</b>

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



**SAVE 35%**

Included	Order No.	Regular Price	SALE
Cera-Cut Handle / 250 mm Convex Blade	FN55CR2000	34.59	<b>22.48</b>

10069

# CUTTING TOOLS

## 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	60.90	<b>51.77</b>
M1.6	0.35 mm	13.6 mm	D3	40 mm	2	TP531650003108	60.90	<b>51.77</b>
M1.7	0.35 mm	13.4 mm	D3	40 mm	2	TP531650003208	60.90	<b>51.77</b>
M2	0.25 mm	10 mm	D2	45 mm	2	TP531650003308	67.07	<b>57.01</b>
M2	0.4 mm	10 mm	D3	45 mm	2	TP531650003408	50.24	<b>42.70</b>
M2.2	0.25 mm	11 mm	D2	45 mm	2	TP531650003508	75.10	<b>63.84</b>
M2.2	0.45 mm	11 mm	D3	45 mm	2	TP531650003608	50.24	<b>42.70</b>
M2.3	0.4 mm	11.9 mm	D3	45 mm	2	TP531650003708	50.24	<b>42.70</b>
M2.5	0.35 mm	13 mm	D3	50 mm	2	TP531650003808	50.24	<b>42.70</b>
M2.5	0.45 mm	13 mm	D3	50 mm	2	TP531650003908	47.66	<b>40.51</b>
M2.6	0.45 mm	13 mm	D3	50 mm	2	TP531650004008	44.18	<b>37.55</b>
M3	0.5 mm	18 mm	D3	56 mm	3	TP531650000108	35.70	<b>30.35</b>
M3	0.35 mm	18 mm	D3	56 mm	2	TP531650004108	42.26	<b>35.92</b>
M3.5	0.35 mm	20 mm	D3	56 mm	2	TP531650004208	46.62	<b>39.63</b>
M3.5	0.6 mm	20 mm	D3	56 mm	2	TP531650004308	39.74	<b>33.78</b>
M3	0.35 mm	18 mm	D2	56 mm	2	TP531650009708	42.26	<b>35.92</b>
M3	0.5 mm	18 mm	D3	56 mm	3	TP531650009808	35.60	<b>30.26</b>
M3.5	0.35 mm	20 mm	D3	56 mm	3	TP531650009908	46.62	<b>39.63</b>
M3.5	0.6 mm	20 mm	D3	56 mm	3	TP531650010008	39.74	<b>33.78</b>
M4	0.5 mm	20.9 mm	D3	63 mm	3	TP531650000208	31.24	<b>26.55</b>
M4	0.7 mm	20.9 mm	D4	63 mm	3	TP531650000308	29.75	<b>25.29</b>
M4	0.5 mm	20.9 mm	D3	63 mm	3	TP531650010108	31.24	<b>26.55</b>
M4	0.7 mm	20.9 mm	D4	63 mm	3	TP531650010208	29.75	<b>25.29</b>
M5	0.5 mm	25.1 mm	D3	70 mm	3	TP531650000408	31.90	<b>27.12</b>
M5	0.8 mm	25.1 mm	D4	70 mm	3	TP531650000508	30.37	<b>25.81</b>
M4.5	0.5 mm	24.9 mm	D3	70 mm	3	TP531650004408	37.73	<b>32.07</b>
M4.5	0.75 mm	24.9 mm	D4	70 mm	3	TP531650004508	35.93	<b>30.54</b>
M4.5	0.5 mm	24.9 mm	D3	70 mm	3	TP531650010308	37.73	<b>32.07</b>
M4.5	0.75 mm	24.9 mm	D4	70 mm	3	TP531650010408	35.93	<b>30.54</b>
M5	0.5 mm	25.1 mm	D3	70 mm	3	TP531650010508	31.90	<b>27.12</b>
M5	0.8 mm	25.1 mm	D4	70 mm	3	TP531650010608	30.37	<b>25.81</b>
M6	0.5 mm	29.9 mm	D3	80 mm	3	TP531650000608	38.72	<b>32.91</b>
M6	0.75 mm	29.9 mm	D4	80 mm	3	TP531650000708	35.20	<b>29.92</b>
M6	1 mm	29.9 mm	D5	80 mm	3	TP531650000808	33.51	<b>28.48</b>
M5.5	0.5 mm	30.1 mm	D3	80 mm	3	TP531650004608	35.90	<b>30.52</b>
M7	0.75 mm	30 mm	D4	80 mm	3	TP531650004708	42.92	<b>36.48</b>
M7	1 mm	30 mm	D5	80 mm	3	TP531650004808	42.92	<b>36.48</b>
M8	0.75 mm	33 mm	D4	80 mm	3	TP531650004908	42.82	<b>36.40</b>
M5.5	0.5 mm	30.1 mm	D3	80 mm	3	TP531650010708	35.90	<b>30.52</b>
M6	0.5 mm	29.9 mm	D3	80 mm	3	TP531650010808	38.72	<b>32.91</b>
M6	0.75 mm	29.9 mm	D4	80 mm	3	TP531650010908	35.20	<b>29.92</b>
M6	1 mm	29.9 mm	D5	80 mm	3	TP531650011008	33.51	<b>28.48</b>
M7	0.75 mm	30 mm	D4	80 mm	3	TP531650011108	42.92	<b>36.48</b>
M7	1 mm	30 mm	D5	80 mm	3	TP531650011208	42.92	<b>36.48</b>
M8	0.75 mm	33 mm	D4	80 mm	3	TP531650011308	42.82	<b>36.40</b>
M8	1 mm	35 mm	D5	90 mm	3	TP531650000908	38.99	<b>33.14</b>
M8	1.25 mm	35 mm	D5	90 mm	3	TP531650001008	37.13	<b>31.56</b>
M10	1 mm	35 mm	D5	90 mm	3	TP531650001108	58.40	<b>49.64</b>
M9	0.75 mm	35 mm	D4	90 mm	3	TP531650000508	57.35	<b>48.75</b>
M9	1 mm	35 mm	D5	90 mm	3	TP531650005108	54.87	<b>46.64</b>
M9	1.25 mm	35 mm	D5	90 mm	3	TP531650005208	52.75	<b>44.84</b>
M10	0.75 mm	35 mm	D4	90 mm	3	TP531650005308	65.05	<b>55.29</b>
M8	1 mm	35 mm	D5	90 mm	3	TP531650011408	38.99	<b>33.14</b>
M8	1.25 mm	35 mm	D5	90 mm	3	TP531650011508	37.13	<b>31.56</b>
M9	0.75 mm	35 mm	D4	90 mm	3	TP531650011608	57.35	<b>48.75</b>
M9	1 mm	35 mm	D5	90 mm	3	TP531650011708	54.87	<b>46.64</b>
M9	1.25 mm	35 mm	D5	90 mm	3	TP531650011808	52.75	<b>44.84</b>
M10	0.75 mm	35 mm	D4	90 mm	3	TP531650011908	65.05	<b>55.29</b>
M10	1 mm	35 mm	D5	90 mm	3	TP531650012008	58.40	<b>49.64</b>
M11	0.75 mm	43.5 mm	D4	90 mm	3	TP531650005408	69.40	<b>58.99</b>
M11	1 mm	43.5 mm	D5	90 mm	3	TP531650005508	66.34	<b>56.39</b>
M11	0.75 mm	43.5 mm	D4	90 mm	3	TP531650012308	69.40	<b>58.99</b>
M11	1 mm	43.5 mm	D5	90 mm	3	TP531650012408	66.34	<b>56.39</b>

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
M10	1.25 mm	39 mm	D5	100 mm	3	TP531650001208	58.40	<b>49.64</b>
M10	1.5 mm	39 mm	D6	100 mm	3	TP531650001308	58.40	<b>49.64</b>
M12	1 mm	49.1 mm	D5	100 mm	3	TP531650001408	69.67	
M12	1.25 mm	49.1 mm	D6	100 mm	3	TP531650001508	69.67	<b>59.22</b>
M12	1.5 mm	49.1 mm	D6	100 mm	3	TP531650001608	69.66	<b>59.21</b>
M14	1.5 mm	50.1 mm	D6	100 mm	3	TP531650001808	95.89	<b>81.51</b>
M16	1.5 mm	54 mm	D6	100 mm	3	TP531650002008	102.49	<b>87.12</b>
M10	1.25 mm	39 mm	D5	100 mm	3	TP531650012108	58.40	<b>49.64</b>
M10	1.5 mm	39 mm	D6	100 mm	3	TP531650012208	58.40	<b>49.64</b>
M11	1.5 mm	43.5 mm	D6	100 mm	3	TP531650005608	63.12	<b>53.65</b>
M14	1 mm	50.1 mm	D5	100 mm	3	TP531650005708	110.53	<b>93.95</b>
M14	1.25 mm	50.1 mm	D6	100 mm	3	TP531650005808	105.51	<b>89.68</b>
M15	1 mm	54 mm	D5	100 mm	3	TP531650005908	111.89	<b>95.11</b>
M15	1.5 mm	54 mm	D6	100 mm	3	TP531650006008	101.69	<b>86.44</b>
M16	1 mm	54 mm	D5	100 mm	3	TP531650006108	112.73	<b>95.82</b>
M17	1.5 mm	55 mm	D6	100 mm	3	TP531650006208	125.56	<b>106.73</b>
M17	1 mm	55 mm	D5	100 mm	3	TP531650006308	138.13	<b>117.41</b>
M18	1 mm	55 mm	D5	100 mm	4	TP531650006408	170.69	<b>145.09</b>
M11	1.25 mm	43.5 mm	D5	100 mm	3	TP531650012508	63.12	<b>53.65</b>
M11	1.5 mm	43.5 mm	D6	100 mm	3	TP531650012608	63.12	<b>53.65</b>
M12	1 mm	49.1 mm	D5	100 mm	3	TP531650012708	69.67	<b>59.22</b>
M12	1.25 mm	49.1 mm	D6	100 mm	3	TP531650012808	69.67	<b>59.22</b>
M12	1.5 mm	49.1 mm	D6	100 mm	3	TP531650012908	69.66	<b>59.21</b>
M15	1.25 mm	54 mm	D6	100 mm	3	TP531650013208	111.89	<b>95.11</b>
M16	1.25 mm	54 mm	D6	100 mm	3	TP531650013308	112.73	<b>95.82</b>
M17	1.25 mm	55 mm	D6	100 mm	3	TP531650013408	138.13	<b>117.41</b>
M12	1.75 mm	49.1 mm	D6	110 mm	3	TP531650001708	69.66	<b>59.21</b>
M14	2 mm	50.1 mm	D7	110 mm	3	TP531650001908	95.90	<b>81.52</b>
M16	2 mm	54 mm	D7	110 mm	3	TP531650002108	102.47	<b>87.10</b>
M18	1.5 mm	55 mm	D6	110 mm	4	TP531650002208	148.29	<b>126.05</b>
M12	1.75 mm	49.1 mm	D6	110 mm	3	TP531650013008	69.66	<b>59.21</b>
M15	2 mm	54 mm	D7	110 mm	3	TP531650013108	111.89	<b>95.11</b>
M18	1.25 mm	55 mm	D6	110 mm	4	TP531650013508	170.69	<b>145.09</b>
M18	2.5 mm	55 mm	D7	125 mm	4	TP531650002308	148.29	<b>126.05</b>
M20	1.5 mm	61.8 mm	D6	125 mm	4	TP531650002408	206.40	<b>175.44</b>
M22	1.5 mm	67.4 mm	D6	125 mm	4	TP531650002608	225.38	<b>191.57</b>
M18	2 mm	55 mm	D7	125 mm	4	TP531650006508	148.29	<b>126.05</b>
M20	1 mm	61.8 mm	D5	125 mm	4	TP531650006608	231.06	<b>196.40</b>
M22	1 mm	67.4 mm	D5	125 mm	4	TP531650006808	249.31	<b>211.91</b>
M20	2.5 mm	61.8 mm	D7	140 mm	4	TP531650002508	206.39	<b>175.43</b>
M22	2.5 mm	67.4 mm	D7	140 mm	4	TP531650002708	225.39	<b>191.58</b>
M24	1.5 mm	68.4 mm	D6	140 mm	4	TP531650002808	294.82	<b>250.60</b>
M20	2 mm	61.8 mm	D7	140 mm	4	TP531650006708	206.40	<b>175.44</b>
M22	2 mm	67.4 mm	D7	140 mm	4	TP531650006908	225.38	<b>191.57</b>
M24	1 mm	68.4 mm	D5	140 mm	4	TP531650007008	331.21	<b>281.53</b>
M24	2 mm	68.4 mm	D7	140 mm	4	TP531650007108	294.82	<b>250.60</b>
M27	1.5 mm	60 mm	D8	140 mm	4	TP531650007208	342.15	<b>290.83</b>
M27	2 mm	60 mm	D8	140 mm	4	TP531650007308	342.15	<b>290.83</b>
M30	1.5 mm	70 mm	D8	150 mm	4	TP531650007508	376.91	<b>320.37</b>
M30	2 mm	70 mm	D9	150 mm	4	TP531650007608	376.91	<b>320.37</b>
M24	3 mm	68.4 mm	D8	160 mm	4	TP531650002908	294.82	<b>250.60</b>
M27	3 mm	80 mm	D10	160 mm	4	TP531650007408	342.15	<b>290.83</b>
M33	1.5 mm	75 mm	D8	160 mm	4	TP531650007808	437.74	<b>372.08</b>
M33	2 mm	75 mm	D9	160 mm	4	TP531650007908	437.74	<b>372.08</b>
M36	1.5 mm	85 mm	D8	170 mm	4	TP531650008108	568.80	<b>483.48</b>
M36	2 mm	85 mm	D9	170 mm	4	TP531650008208	568.80	<b>483.48</b>
M42	1.5 mm	70 mm	D8	170 mm	4	TP531650008608	688.72	<b>585.41</b>
M42	2 mm	70 mm	D9	170 mm	4	TP531650008708	688.72	<b>585.41</b>
M30	3.5 mm	100 mm	D11	180 mm	4	TP531650007708	376.91	<b>320.37</b>
M33	3.5 mm	95 mm	D11	180 mm	4	TP531650008008	437.74	<b>372.08</b>
M48	1.5 mm	80 mm	D8	190 mm	4	TP531650009208	981.92	<b>834.63</b>
M48	2 mm	80 mm	D9	190 mm	4	TP531650009308	981.92	<b>834.63</b>
M36	3 mm	115 mm	D10	200 mm	4	TP531650008308	568.80	<b>483.48</b>
M36	4 mm	115 mm	D11	200 mm	4	TP531650008408	568.80	<b>483.48</b>
M39	4 mm	110 mm	D11	200 mm	4			

## 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	51.31	<b>43.61</b>
M1.6	0.35 mm	9 mm	D3	40 mm	2	TP531651003108	51.31	<b>43.61</b>
M1.7	0.35 mm	11 mm	D3	40 mm	2	TP531651003208	51.31	<b>43.61</b>
M2	0.25 mm	12 mm	D2	45 mm	2	TP531651003308	58.29	<b>49.55</b>
M2	0.4 mm	12 mm	D3	45 mm	2	TP531651003408	42.81	<b>36.39</b>
M2.2	0.25 mm	12 mm	D2	45 mm	2	TP531651003508	58.29	<b>49.55</b>
M2.2	0.45 mm	12 mm	D3	45 mm	2	TP531651003608	47.74	<b>40.58</b>
M2.3	0.4 mm	12 mm	D3	45 mm	2	TP531651003708	40.03	<b>34.03</b>
M2.5	0.35 mm	14 mm	D3	50 mm	2	TP531651003808	51.31	<b>43.61</b>
M2.5	0.45 mm	14 mm	D3	50 mm	2	TP531651003908	37.38	<b>31.77</b>
M2.6	0.45 mm	14 mm	D3	50 mm	2	TP531651004008	35.61	<b>30.27</b>
M3	0.5 mm	18 mm	D3	56 mm	3	TP531651001018	27.39	<b>23.28</b>
M3	0.35 mm	18 mm	D3	56 mm	3	TP531651004108	35.58	<b>30.24</b>
M3.5	0.35 mm	20 mm	D3	56 mm	3	TP531651004208	35.46	<b>30.14</b>
M3.5	0.6 mm	20 mm	D3	56 mm	3	TP531651004308	26.36	<b>22.41</b>
M4	0.5 mm	21 mm	D3	63 mm	3	TP531651000208	22.61	<b>19.22</b>
M4	0.7 mm	21 mm	D4	63 mm	3	TP531651000308	21.54	<b>18.31</b>
M4.5	0.5 mm	25 mm	D3	70 mm	3	TP531651004408	27.21	<b>23.13</b>
M4.5	0.75 mm	25 mm	D4	70 mm	3	TP531651004508	26.17	<b>22.24</b>
M5	0.5 mm	25 mm	D3	70 mm	3	TP531651000408	23.19	<b>19.71</b>
M5	0.8 mm	25 mm	D4	70 mm	3	TP531651000508	22.07	<b>18.76</b>
M5.5	0.5 mm	30 mm	D3	70 mm	3	TP531651004608	29.77	<b>25.30</b>
M6	0.5 mm	30 mm	D3	80 mm	3	TP531651000608	29.40	<b>24.99</b>
M6	0.75 mm	30 mm	D4	80 mm	3	TP531651000708	26.72	<b>22.71</b>
M6	1 mm	30 mm	D5	80 mm	3	TP531651000808	25.44	<b>21.62</b>
M7	0.75 mm	30 mm	D4	80 mm	3	TP531651004708	35.40	<b>30.09</b>
M7	1 mm	30 mm	D5	80 mm	3	TP531651004808	35.97	<b>30.57</b>
M8	1 mm	35 mm	D5	90 mm	3	TP531651000908	32.13	<b>27.31</b>
M8	1.25 mm	35 mm	D5	90 mm	3	TP531651001008	30.60	<b>26.01</b>
M8	0.75 mm	30 mm	D4	90 mm	3	TP531651004908	38.92	<b>33.08</b>
M9	0.75 mm	35 mm	D4	90 mm	3	TP531651005008	57.70	<b>49.05</b>
M9	1 mm	35 mm	D5	90 mm	3	TP531651005108	50.95	<b>43.31</b>
M9	1.25 mm	35 mm	D5	90 mm	3	TP531651005208	46.27	<b>39.33</b>
M10	0.75 mm	35 mm	D4	90 mm	3	TP531651005308	53.63	<b>45.59</b>
M10	1 mm	29 mm	D5	90 mm	3	TP531651005408	53.97	<b>45.87</b>
M10	1.25 mm	29 mm	D5	90 mm	3	TP531651005508	72.12	<b>61.30</b>
M10	1 mm	35 mm	D5	100 mm	3	TP531651001108	44.21	<b>37.58</b>
M10	1.25 mm	39 mm	D5	100 mm	3	TP531651001208	44.21	<b>37.58</b>
M10	1.5 mm	39 mm	D6	100 mm	3	TP531651001308	44.21	<b>37.58</b>
M11	1.5 mm	29 mm	D6	100 mm	3	TP531651005608	48.46	<b>41.19</b>
M12	1 mm	32 mm	D5	100 mm	3	TP531651001408	53.57	<b>45.53</b>
M12	1.25 mm	32 mm	D6	100 mm	3	TP531651001508	53.57	<b>45.53</b>
M12	1.5 mm	32 mm	D6	100 mm	3	TP531651001608	53.57	<b>45.53</b>
M14	1.5 mm	36 mm	D6	100 mm	4	TP531651001808	81.31	<b>69.11</b>
M14	1 mm	36 mm	D5	100 mm	4	TP531651005708	89.93	<b>76.44</b>
M14	1.25 mm	36 mm	D6	100 mm	4	TP531651005808	85.85	<b>72.97</b>
M15	1 mm	36 mm	D5	100 mm	4	TP531651005908	98.00	<b>83.30</b>
M15	1.5 mm	36 mm	D6	100 mm	4	TP531651006008	89.08	<b>75.72</b>
M15	1.25 mm	36 mm	D6	100 mm	4	TP531651007308	98.00	<b>83.30</b>
M16	1.5 mm	36 mm	D6	100 mm	4	TP531651002008	89.80	<b>76.33</b>
M16	1 mm	36 mm	D5	100 mm	4	TP531651006108	98.79	<b>83.97</b>
M16	1.25 mm	36 mm	D6	100 mm	4	TP531651007408	98.79	<b>83.97</b>
M17	1 mm	36 mm	D5	100 mm	4	TP531651006208	129.57	<b>110.13</b>
M17	1.5 mm	36 mm	D6	100 mm	4	TP531651006308	117.78	<b>100.11</b>
M17	1.25 mm	36 mm	D6	100 mm	4	TP531651007508	129.57	<b>110.13</b>
M12	1.75 mm	32 mm	D6	110 mm	3	TP531651001708	53.57	<b>45.53</b>
M14	2 mm	36 mm	D7	110 mm	3	TP531651001908	81.31	<b>69.11</b>
M15	2 mm	36 mm	D7	110 mm	3	TP531651007208	89.08	<b>75.72</b>
M16	2 mm	36 mm	D7	110 mm	3	TP531651002108	89.80	<b>76.33</b>
M18	1.5 mm	43 mm	D6	110 mm	4	TP531651002208	126.71	<b>107.70</b>
M18	1 mm	43 mm	D5	110 mm	4	TP531651006408	149.59	<b>127.15</b>
M18	1.25 mm	43 mm	D6	110 mm	4	TP531651007608	149.59	<b>127.15</b>
M18	2.5 mm	43 mm	D7	125 mm	3	TP531651002308	126.71	<b>107.70</b>
M18	2 mm	43 mm	D7	125 mm	4	TP531651006508	135.97	<b>115.57</b>

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
M20	1.5 mm	44 mm	D6	125 mm	4	TP531651002408	176.38	<b>149.92</b>
M20	1 mm	44 mm	D5	125 mm	4	TP531651006608	202.45	<b>172.08</b>
M22	1.5 mm	44 mm	D6	125 mm	4	TP531651002608	192.60	<b>163.71</b>
M22	1 mm	44 mm	D5	125 mm	4	TP531651006808	218.47	<b>185.70</b>
M20	2.5 mm	44 mm	D7	140 mm	3	TP531651002508	176.37	<b>149.91</b>
M20	2 mm	44 mm	D7	140 mm	4	TP531651006708	184.03	<b>156.43</b>
M22	2.5 mm	44 mm	D7	140 mm	3	TP531651002708	192.58	<b>163.69</b>
M22	2 mm	44 mm	D7	140 mm	4	TP531651006908	198.60	<b>168.81</b>
M24	1.5 mm	51 mm	D6	140 mm	4	TP531651002808	251.93	<b>214.14</b>
M24	1 mm	51 mm	D5	140 mm	4	TP531651007008	290.18	<b>246.65</b>
M24	2 mm	51 mm	D7	140 mm	4	TP531651007108	263.77	<b>224.20</b>
M24	3 mm	51 mm	D8	16 mm	3	TP531651002908	251.94	<b>214.15</b>

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	63.35	<b>53.85</b>
M3.5	0.35 mm	18 mm	D3	100 mm	3	TP531652001408	67.91	<b>57.72</b>
M3.5	0.6 mm	20 mm	D3	100 mm	3	TP531652001508	62.48	<b>53.11</b>
M4	0.5 mm	21 mm	D3	100 mm	3	TP531652001608	49.36	<b>41.96</b>
M4	0.7 mm	21 mm	D4	100 mm	3	TP531652001708	47.87	<b>40.69</b>
M4.5	0.5 mm	25 mm	D3	100 mm	3	TP531652001808	53.45	<b>45.43</b>
M4.5	0.7 mm	25 mm	D4	100 mm	3	TP531652001908	50.68	<b>43.08</b>
M5	0.5 mm	25 mm	D3	125 mm	3	TP531652002008	57.77	<b>49.10</b>
M5	0.8 mm	25 mm	D4	125 mm	3	TP531652002108	54.82	<b>46.60</b>
M5.5	0.5 mm	30 mm	D3	125 mm	3	TP531652002208	59.17	<b>50.29</b>
M6	0.5 mm	30 mm	D3	125 mm	3	TP531652002308	59.56	<b>50.63</b>
M6	0.75 mm	30 mm	D4	150 mm	3	TP531652002508	58.03	<b>49.33</b>
M6	1 mm	30 mm	D5	150 mm	3	TP531652002708	56.52	<b>48.04</b>
M8	0.75 mm	35 mm	D4	150 mm	3	TP531652003308	63.28	<b>53.79</b>
M8	1 mm	35 mm	D5	150 mm	3	TP531652003508	61.22	<b>52.04</b>
M8	1.25 mm	35 mm	D5	150 mm	3	TP531652003708	60.18	<b>51.15</b>
M10	0.75 mm	39 mm	D4	150 mm	3	TP531652004508	96.94	<b>82.40</b>
M10	1 mm	39 mm	D5	150 mm	3	TP531652004708	89.51	<b>76.08</b>
M10	1.25 mm	39 mm	D5	150 mm	3	TP531652004908	89.51	<b>76.08</b>
M10	1.5 mm	39 mm	D6	150 mm	3	TP531652005108	89.51	<b>76.08</b>
M12	1 mm	72 mm	D5	180 mm	3	TP531652006108	102.47	<b>87.10</b>
M12	1.25 mm	72 mm	D6	180 mm	3	TP531652006308	99.42	<b>84.51</b>
M12	1.5 mm	72 mm	D6	180 mm	3	TP531652006508	99.42	<b>84.51</b>
M14	1 mm	60 mm	D5	150 mm	3	TP531652006808	143.21	<b>121.73</b>
M14	1.25 mm	60 mm	D6	150 mm	3	TP531652006908	135.70	<b>115.35</b>
M14	1.5 mm	60 mm	D6	150 mm	3	TP531652007008	125.89	<b>107.01</b>
M14	2 mm	60 mm	D7	150 mm	3	TP531652007108	125.89	<b>107.01</b>
M15	1 mm	64 mm	D5	160 mm	3	TP531652007208	163.61	<b>139.07</b>
M15	1.5 mm	64 mm	D6	160 mm	3	TP531652007308	155.82	<b>132.45</b>
M16	1 mm	64 mm	D5	160 mm	3	TP531652007408	157.15	<b>133.58</b>
M16	1.5 mm	64 mm	D6	160 mm	3	TP531652007508	140.96	<b>119.82</b>
M16	2 mm	72 mm	D7	180 mm	3	TP531652007708	140.96	<b>119.82</b>
M18	1 mm	72 mm	D5	180 mm	4	TP531652008008	211.56	<b>179.83</b>
M18	1.5 mm	72 mm	D6	180 mm	4	TP531652008108	205.91	<b>175.02</b>
M18	2 mm	72 mm	D7	180 mm	4	TP531652008208	205.91	<b>175.02</b>
M18	2.5 mm	72 mm	D7	180 mm	4	TP531652008308	205.91	<b>175.02</b>
M20	2 mm	80 mm	D7	200 mm	4	TP531652008608	298.95	<b>254.11</b>
M20	2.5 mm	80 mm	D7	200 mm	4	TP531652008708	298.95	<b>254.11</b>
M20	1 mm	80 mm	D5	200 mm	4	TP531652008408	311.63	<b>264.89</b>
M20	1.5 mm	80 mm	D6	200 mm	4	TP531652008508	298.95	<b>254.11</b>
M22	1 mm	80 mm	D5	200 mm	4	TP531652008808	342.50	<b>291.13</b>
M22	1.5 mm	80 mm	D6	200 mm	4	TP531652008908	328.71	<b>279.40</b>
M22	2 mm	80 mm	D7	200 mm	4	TP531652009008	328.71	<b>279.40</b>
M22	2.5 mm	80 mm	D7	200 mm	4	TP531652009108	328.71	<b>279.40</b>
M24	1 mm	83 mm	D5	200 mm	4	TP531652009208	458.50	<b>389.73</b>
M24	1.5 mm	83 mm	D6	200 mm	4	TP531652009308	414.07	<b>351.96</b>
M24	2 mm	83 mm	D7	200 mm	4	TP531652009408	414.07	<b>3</b>

# CUTTING TOOLS

## PRO CUT Jobber Drills

High Speed Steel • 118° 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

**SAVE 60%**



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	1.25	<b>0.50</b>
1/32"	0.0312	1/2"	1-3/8"	AC40002B	0.80	<b>0.32</b>
3/64"	0.0469	3/4"	1-3/4"	AC40003B	0.80	<b>0.32</b>
1/16"	0.0625	7/8"	1-7/8"	AC40004A	0.80	<b>0.32</b>
5/64"	0.0781	1"	2"	AC40005B	0.87	<b>0.35</b>
3/32"	0.0938	1-1/4"	2-1/4"	AC40006B	0.87	<b>0.35</b>
7/64"	0.1094	1-1/2"	2-5/8"	AC40007B	0.87	<b>0.35</b>
1/8"	0.1250	1-5/8"	2-3/4"	AC40008B	0.87	<b>0.35</b>
9/64"	0.1406	1-3/4"	2-7/8"	AC40009B	1.36	<b>0.54</b>
5/32"	0.1562	2"	3-1/8"	AC40010B	0.93	<b>0.37</b>
11/64"	0.1719	2-1/8"	3-1/4"	AC40011B	0.99	<b>0.40</b>
3/16"	0.1875	2-5/16"	3-1/2"	AC40012B	1.12	<b>0.45</b>
13/64"	0.2030	2-7/16"	3-5/8"	AC40013B	1.25	<b>0.50</b>
7/32"	0.2188	2-1/2"	3-3/4"	AC40014B	1.42	<b>0.57</b>
15/64"	0.2344	2-5/8"	3-7/8"	AC40015B	1.42	<b>0.57</b>
1/4E	0.2500	2-3/4"	4"	AC40016B	1.62	<b>0.65</b>
17/64"	0.2656	2-7/8"	4-1/8"	AC40017B	1.94	<b>0.78</b>
9/32"	0.2812	2-15/16"	4-1/4"	AC40018B	2.05	<b>0.82</b>
19/64"	0.2969	3-1/16"	4-3/8"	AC40019B	2.37	<b>0.95</b>
5/16"	0.3125	3-3/16"	4-1/2"	AC40020B	2.61	<b>1.04</b>
21/64"	0.3281	3-5/16"	4-5/8"	AC40021B	2.80	<b>1.12</b>
11/32"	0.3438	3-7/16"	4-3/4"	AC40022B	3.23	<b>1.29</b>
23/64"	0.3594	3-1/2"	4-7/8"	AC40023B	3.55	<b>1.42</b>
3/8"	0.3750	3-5/8"	5"	AC40024B	3.67	<b>1.47</b>
25/64"	0.3906	3-3/4"	5-1/8"	AC40025B	4.22	<b>1.69</b>
13/32"	0.4060	3-7/8"	5-1/4"	AC40026B	4.28	<b>1.71</b>
27/64"	0.4219	3-15/16"	5-3/8"	AC40027B	4.72	<b>1.89</b>
7/16"	0.4375	4-1/16"	5-1/2"	AC40028B	4.91	<b>1.96</b>
29/64"	0.4531	4-3/16"	5-5/8"	AC40029B	5.53	<b>2.21</b>
15/32"	0.4688	4-5/16"	5-3/4"	AC40030B	5.85	<b>2.34</b>
31/64"	0.4844	4-3/8"	5-7/8"	AC40031B	7.15	<b>2.86</b>
1/2"	0.5000	4-1/2"	6"	AC40032B	7.47	<b>2.99</b>
17/32"	0.5312	4-13/16"	6-5/8"	AC40034B	12.32	<b>4.93</b>
9/16"	0.5625	4-13/16"	6-5/8"	AC40036B	13.57	<b>5.43</b>
19/32"	0.5938	5-3/16"	7-1/8"	AC40038B	13.94	<b>5.58</b>
5/8"	0.6250	5-3/16"	7-1/8"	AC40040B	15.91	<b>6.36</b>
21/32"	0.6562	5-3/16"	7-1/8"	AC40042B	16.11	<b>6.44</b>
11/16"	0.6875	5-5/8"	7-5/8"	AC40044B	18.41	<b>7.36</b>

24478

## Heavy Duty Cobalt Screw Machine Drills

Cobalt • 135° Split Point

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

**SAVE 55%**



Drill Bit Size / Cutting Diameter (DC)	Cutting Depth	Overall Length (OAL)	Order No.	Regular Price	SALE
1/16"	5/8"	1-5/8"	PT1840304	3.97	<b>1.79</b>
5/64"	11/16"	1-11/16"	PT1840305	3.99	<b>1.80</b>
3/32"	3/4"	1-3/4"	PT1840306	3.97	<b>1.79</b>
7/64"	13/16"	1-13/16"	PT1840307	4.50	<b>2.03</b>
1/8"	7/8"	1-7/8"	PT1840308	5.15	<b>2.32</b>
9/64"	15/16"	1-15/16"	PT1840309	5.22	<b>2.35</b>
5/32"	1"	2-1/16"	PT1840310	5.65	<b>2.54</b>
11/64"	1-1/16"	2-1/8"	PT1840311	6.42	<b>2.89</b>
3/16"	1-1/8"	2-3/16"	PT1840312	7.52	<b>3.38</b>
13/64"	1-3/16"	2-1/4"	PT1840313	8.58	<b>3.86</b>
7/32"	1-1/4"	2-3/8"	PT1840314	9.46	<b>4.26</b>
15/64"	1-5/16"	2-7/16"	PT1840315	10.51	<b>4.73</b>
1/4" - E	1-3/8"	2-1/2"	PT1840316	10.51	<b>4.73</b>
17/64"	1-7/16"	2-5/8"	PT1840317	12.36	<b>5.56</b>
9/32"	1-1/2"	2-11/16"	PT1840318	13.03	<b>5.86</b>
5/16"	1-5/8"	2-13/16"	PT1840320	16.27	<b>7.32</b>
3/8"	1-13/16"	3-1/8"	PT1840324	22.51	<b>10.13</b>
13/32"	1-15/16"	3-5/16"	PT1840326	26.57	<b>11.96</b>
1/2"	2-1/4"	3-3/4"	PT1840332	36.10	<b>16.25</b>

24345

## 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	0.0217"	3 mm	4 mm	57 mm	AX2804696	30.67	<b>25.27</b>
0.5 mm	0.0197"	3 mm	4 mm	57 mm	AX2804694	30.67	<b>25.27</b>
0.65 mm	0.0256"	3 mm	5 mm	57 mm	AX2804700	30.67	<b>25.27</b>
0.6 mm	0.0236"	3 mm	5 mm	57 mm	AX2804698	30.67	<b>25.27</b>
0.75 mm	0.0295"	3 mm	6 mm	57 mm	AX2804704	30.67	<b>25.27</b>
0.7 mm	0.0276"	3 mm	5 mm	57 mm	AX2804702	30.67	<b>25.27</b>
0.85 mm	0.0335"	3 mm	7 mm	57 mm	AX2804708	30.67	<b>25.27</b>
0.8 mm	0.0315"	3 mm	6 mm	57 mm	AX2804706	30.67	<b>25.27</b>
0.95 mm	0.0374"	3 mm	7 mm	57 mm	AX2804712	30.67	<b>25.27</b>
0.9 mm	0.0354"	3 mm	7 mm	57 mm	AX2804710	30.67	<b>25.27</b>
1 mm	0.0394"	3 mm	8 mm	57 mm	AX2804714	30.67	<b>25.27</b>
1.05 mm	0.0413"	3 mm	8 mm	57 mm	AX2804716	30.67	<b>25.27</b>
1.15 mm	0.0453"	3 mm	9 mm	57 mm	AX2804720	30.67	<b>25.27</b>
1.1 mm	0.0433"	3 mm	8 mm	57 mm	AX2804718	30.67	<b>25.27</b>
1.25 mm	0.0492"	3 mm	9 mm	57 mm	AX2804724	30.67	<b>25.27</b>
1.2 mm	0.0472"	3 mm	9 mm	57 mm	AX2804722	30.67	<b>25.27</b>
1.35 mm	0.0531"	3 mm	10 mm	57 mm	AX2804728	30.67	<b>25.27</b>
1.3 mm	0.0512"	3 mm	10 mm	57 mm	AX2804726	30.67	<b>25.27</b>
1.45 mm	0.0571"	3 mm	11 mm	57 mm	AX2804732	30.67	<b>25.27</b>
1.4 mm	0.0551"	3 mm	10 mm	57 mm	AX2804730	30.67	<b>25.27</b>
1.55 mm	0.0611"	3 mm	12 mm	57 mm	AX2804736	37.37	<b>30.79</b>
1.5 mm	0.0591"	3 mm	11 mm	57 mm	AX2804734	30.67	<b>25.27</b>
1.65 mm	0.0651"	3 mm	12 mm	57 mm	AX2804740	37.37	<b>30.79</b>
1.6 mm	0.0631"	3 mm	12 mm	57 mm	AX2804738	37.37	<b>30.79</b>
1.75 mm	0.0689"	3 mm	13 mm	57 mm	AX2804744	37.37	<b>30.79</b>
1.7 mm	0.0669"	3 mm	13 mm	57 mm	AX2804742	37.37	<b>30.79</b>
1.8 mm	0.0709"	3 mm	13 mm	57 mm	AX2804746	37.37	<b>30.79</b>
1.85 mm	0.0728"	3 mm	14 mm	57 mm	AX2804748	37.37	<b>30.79</b>
1.9 mm	0.0748"	3 mm	14 mm	57 mm	AX2804750	37.37	<b>30.79</b>
1.95 mm	0.0768"	3 mm	14 mm	57 mm	AX2804752	37.37	<b>30.79</b>
2 mm	0.0787"	3 mm	15 mm	57 mm	AX2804754	37.37	<b>30.79</b>
2.05 mm	0.0807"	3 mm	15 mm	57 mm	AX2804756	37.37	<b>30.79</b>
2.1 mm	0.0827"	3 mm	15 mm	57 mm	AX2804758	37.37	<b>30.79</b>
2.15 mm	0.0846"	3 mm	16 mm	57 mm	AX2804760	37.37	<b>30.79</b>
2.2 mm	0.0866"	3 mm	16 mm	57 mm	AX2804762	37.37	<b>30.79</b>
2.25 mm	0.0886"	3 mm	17 mm	57 mm	AX2804764	37.37	<b>30.79</b>
2.3 mm	0.0906"	3 mm	17 mm	57 mm	AX2804766	37.37	<b>30.79</b>
2.35 mm	0.0925"	3 mm	17 mm	57 mm	AX2804768	37.37	<b>30.79</b>
2.4 mm	0.0945"	3 mm	18 mm	57 mm	AX2804770	37.37	<b>30.79</b>
2.45 mm	0.0965"	3 mm	18 mm	57 mm	AX2804772	37.37	<b>30.79</b>
2.5 mm	0.0984"	3 mm	18 mm	57 mm	AX2804774	37.37	<b>30.79</b>
2.55 mm	0.1004"	3 mm	19 mm	57 mm	AX2804776	41.11	<b>33.87</b>
2.6 mm	0.1024"	3 mm	19 mm	57 mm	AX2804778	41.11	<b>33.87</b>
2.65 mm	0.1043"	3 mm	19 mm	57 mm	AX2804780	41.11	<b>33.87</b>
2.7 mm	0.1063"	3 mm	20 mm	57 mm	AX2804782	41.11	<b>33.87</b>
2.75 mm	0.1083"	3 mm	20 mm	57 mm	AX2804784	41.11	<b>33.87</b>
2.8 mm	0.1102"	3 mm	20 mm	57 mm	AX2804786	41.11	<b>33.87</b>
2.85 mm	0.1122"	3 mm	21 mm	57 mm	AX2804788	41.11	<b>33.87</b>
2.9 mm	0.1142"	3 mm	21 mm	57 mm	AX2804790	41.11	<b>33.87</b>
2.95 mm	0.1161"	3 mm	21 mm	57 mm	AX2804792	41.11	<b>33.87</b>

9949

## PRO CUT 29 Pc. Taper Length Drill Set

Straight Shank • 1/16"-1/2" by 64ths

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



**SAVE 50%**

Order No.	Regular Price	SALE
AP50104E	177.39	<b>88.70</b>

24453



## WALTER X-treme DH20 High Performance Solid Carbide Coolant Thru Geometry Drills

- 20xD Length
- 140° Point
- TiAlN Coated
- Ideal in steel and applicable in stainless steel, cast iron, aluminum and titanium
- Walter List# A6794TFP

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
3 mm	0.1181"	6 mm	60 mm	107 mm	TT105564938	315.18	<b>299.42</b>
1/8"	0.125"	0.236"	3-25/64"	5-9/32"	TT105564939	315.18	<b>299.42</b>
3.5 mm	0.1378"	6 mm	86 mm	134 mm	TT105564960	315.18	<b>299.42</b>
9/64"	0.1406"	0.236"	3-25/64"	5-9/32"	TT105564961	315.18	<b>299.42</b>
5/32"	0.1563"	0.236"	3-25/64"	5-9/32"	TT105564962	315.18	<b>299.42</b>
4 mm	0.1575"	6 mm	86 mm	134 mm	TT105564963	315.18	<b>299.42</b>
4.5 mm	0.1772"	6 mm	110 mm	158 mm	TT105564964	315.18	<b>299.42</b>
3/16"	0.1875"	0.236"	4-21/64"	6-7/32"	TT105564965	315.18	<b>299.42</b>
4.8 mm	0.189"	6 mm	110 mm	158 mm	TT105564966	315.18	<b>299.42</b>
5 mm	0.1969"	6 mm	110 mm	158 mm	TT105564967	315.18	<b>299.42</b>
5.5 mm	0.2165"	6 mm	123 mm	170 mm	TT105564968	315.18	<b>299.42</b>
7/32"	0.2188"	0.236"	5-5/16"	7-11/64"	TT105564969	315.18	<b>299.42</b>
5.8 mm	0.2283"	6 mm	135 mm	182 mm	TT105564970	315.18	<b>299.42</b>
6 mm	0.2362"	6 mm	135 mm	182 mm	TT105564971	315.18	<b>299.42</b>
6.1 mm	0.2402"	8 mm	151 mm	200 mm	TT105564972	378.01	<b>359.11</b>
1/4"	0.25"	0.315"	5.94"	7-7/8"	TT105564973	378.01	<b>359.11</b>
6.5 mm	0.2559"	8 mm	151 mm	200 mm	TT105564974	378.01	<b>359.11</b>
6.8 mm	0.2677"	8 mm	151 mm	200 mm	TT105564975	378.01	<b>359.11</b>
7 mm	0.2756"	8 mm	151 mm	200 mm	TT105564976	378.01	<b>359.11</b>
9/32"	0.2813"	0.315"	6-49/64"	8-47/64"	TT105564977	378.01	<b>359.11</b>
7.4 mm	0.2913"	8 mm	172 mm	222 mm	TT105564978	378.01	<b>359.11</b>
7.5 mm	0.2953"	8 mm	172 mm	222 mm	TT105564979	378.01	<b>359.11</b>
5/16"	0.3125"	0.315"	6-49/64"	8-47/64"	TT105564980	378.01	<b>359.11</b>
8 mm	0.315"	8 mm	172 mm	222 mm	TT105564981	378.01	<b>359.11</b>
8.3 mm	0.3268"	10 mm	184 mm	240 mm	TT105564982	440.84	<b>418.80</b>
8.5 mm	0.3346"	10 mm	184 mm	240 mm	TT105564983	440.84	<b>418.80</b>
11/32"	0.3438"	0.394"	7-1/4"	9-29/64"	TT105564984	440.84	<b>418.80</b>
9 mm	0.3543"	10 mm	184 mm	240 mm	TT105564985	440.84	<b>418.80</b>
3/8"	0.375"	0.394"	8-5/64"	10-5/16"	TT105564986	440.84	<b>418.80</b>
9.8 mm	0.3858"	10 mm	205 mm	262 mm	TT105564987	440.84	<b>418.80</b>
10 mm	0.3937"	10 mm	205 mm	262 mm	TT105564988	440.84	<b>418.80</b>

29606

## WALTER 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



Connection Diameter Machine Side (DCONMS)	Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Flute Count (NOF)	Overall Length (OAL)	Bright, 90 Degrees			Bright, 120 Degrees			AITN, 142 Degrees		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	0.125"	2	2"	ER4SE-FU31000317	20.25	<b>19.24</b>	ER4SE-FU32000317	20.25	<b>19.24</b>	ER-45FU133000317	22.27	<b>21.18</b>
1/4"	1/4"	0.25"	2	2-1/2"	ER4SE-FU31000635	39.95	<b>37.95</b>	ER4SE-FU32000635	39.95	<b>37.95</b>	ER-45FU133000635	43.95	<b>41.75</b>
3/8"	3/8"	0.375"	2	3"	ER4SE-FU31000952	66.14	<b>62.83</b>	ER4SE-FU32000952	66.14	<b>62.83</b>	ER-45FU133000952	72.75	<b>69.11</b>
1/2"	1/2"	0.5"	2	3"	ER4SE-FU31001270	114.14	<b>108.43</b>	ER-45FU132001270	114.14	<b>108.43</b>	ER-45FU133001270	125.57	<b>119.29</b>
5/8"	5/8"	0.625"	2	4"	ER4SE-FU31001587	135.01	<b>128.26</b>	ER-45FU132001587	135.01	<b>128.26</b>	ER-45FU133001587	148.52	<b>141.09</b>
3/4"	3/4"	0.75"	2	4"	ER4SE-FU31001905	241.09	<b>228.04</b>	ER-45FU132001905	241.09	<b>228.04</b>	ER-45FU133001905	265.20	<b>251.94</b>

28891

## WALTER Alpha® 4 XD16 High Performance Solid Carbide Coolant Thru Geometry Drills

- 16xD Length
- 140° Point
- DPP Coated
- Ideal in steel, cast iron, aluminum and titanium
- Walter List# A6685TFP

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
3 mm	0.1181"	6 mm	52 mm	100 mm	TT105154852	266.77	<b>253.43</b>
3.5 mm	0.1378"	6 mm	72 mm	120 mm	TT105293827	258.53	<b>245.60</b>
5/32"	0.1563"	0.236"	2-53/64"	4-23/32"	TT105293829	266.77	<b>253.43</b>
4 mm	0.1575"	6 mm	72 mm	120 mm	TT105154850	258.53	<b>245.60</b>
4.5 mm	0.1772"	6 mm	92 mm	140 mm	TT105154849	258.53	<b>245.60</b>
3/16"	0.1875"	0.236"	3-5/8"	5-33/64"	TT105293830	258.53	<b>245.60</b>
5.5 mm	0.2165"	6 mm	101 mm	150 mm	TT105154858	258.53	<b>245.60</b>
7/32"	0.2188"	0.236"	4-3/8"	6-19/64"	TT105293832	258.53	<b>245.60</b>
5.8 mm	0.2283"	6 mm	111 mm	160 mm	TT105293833	258.53	<b>245.60</b>
6 mm	0.2362"	6 mm	111 mm	160 mm	TT105154859	258.53	<b>245.60</b>
6.1 mm	0.2402"	8 mm	124 mm	175 mm	TT105293834	310.03	<b>294.53</b>
1/4"	0.25"	0.315"	4-7/8"	6-57/64"	TT105154905	310.03	<b>294.53</b>
6.5 mm	0.2559"	8 mm	124 mm	175 mm	TT105154860	310.03	<b>294.53</b>
6.8 mm	0.2677"	8 mm	124 mm	175 mm	TT105293835	310.03	<b>294.53</b>
7 mm	0.2756"	8 mm	124 mm	175 mm	TT105154861	310.03	<b>294.53</b>
9/32"	0.2813"	0.315"	5-33/64"	7-9/16"	TT105293836	310.03	<b>294.53</b>
7.4 mm	0.2913"	8 mm	140 mm	192 mm	TT105293837	310.03	<b>294.53</b>
7.5 mm	0.2953"	8 mm	140 mm	192 mm	TT105293838	310.03	<b>294.53</b>
5/16"	0.3125"	0.315"	5-33/64"	7-9/16"	TT105293839	310.03	<b>294.53</b>
8 mm	0.315"	8 mm	140 mm	192 mm	TT105154862	310.03	<b>294.53</b>
8.3 mm	0.3268"	10 mm	148 mm	206 mm	TT105293840	361.53	<b>343.45</b>
8.5 mm	0.3346"	10 mm	148 mm	206 mm	TT105154863	361.53	<b>343.45</b>
11/32"	0.3438"	0.394"	5-53/64"	8-7/64"	TT105293841	361.53	<b>343.45</b>
9 mm	0.3543"	10 mm	148 mm	206 mm	TT105154864	361.53	<b>343.45</b>
3/8"	0.375"	0.394"	6-1/2"	8-13/16"	TT105154851	361.53	<b>343.45</b>
9.8 mm	0.3858"	10 mm	165 mm	224 mm	TT105293842	361.53	<b>343.45</b>
10.2 mm	0.4016"	12 mm	181 mm	247 mm	TT105293843	490.28	<b>465.77</b>
13/32"	0.4063"	0.472"	7-1/8"	9-23/32"	TT105293844	490.28	<b>465.77</b>
11 mm	0.4331"	12 mm	181 mm	247 mm	TT105154854	490.28	<b>465.77</b>
7/16"	0.4375"	0.472"	7-51/64"	10-7/16"	TT105293845	490.28	<b>465.77</b>
11.5 mm	0.4528"	12 mm	198 mm	265 mm	TT105293846	490.28	<b>465.77</b>
11.8 mm	0.4646"	12 mm	198 mm	265 mm	TT105293847	490.28	<b>465.77</b>
15/32"	0.4688"	0.472"	7-51/64"	10-7/16"	TT105293848	490.28	<b>465.77</b>
12 mm	0.4724"	12 mm	198 mm	265 mm	TT105154853	490.28	<b>465.77</b>
1/2"	0.5"	0.551"	9-3/8"	11-27/32"	TT105293849	671.56	<b>637.98</b>
13 mm	0.5118"	14 mm	238 mm	301 mm	TT105293850	671.56	<b>637.98</b>
14 mm	0.5512"	14 mm	238 mm	301 mm	TT105293851	671.56	<b>637.98</b>
9/16"	0.5625"	0.63"	10-45/64"	13-25/64"	TT105293852	877.56	<b>833.68</b>
15 mm	0.5906"	16 mm	272 mm	340 mm	TT105293853	877.56	<b>833.68</b>
16 mm	0.6299"	16 mm	272 mm	340 mm	TT105293854	877.56	<b>833.68</b>

29604

## ASHBURN APEX 7700EP

Heavy Duty Semi-Synthetic Coolant

- Extreme pressure lubricity for extended tool life
- Clean fluid - leaves no sticky deposits on machine or parts
- Excellent corrosion protection
- Stable emulsion in hard and soft water
- Resilient fluid with excellent microbial resistance
- Heavy duty semi-synthetic water soluble metalworking fluid
- For use on ferrous and most nonferrous metals including cast iron and aluminum
- Suitable for turning, milling, drilling, sawing and grinding in individual sumps or central systems



Container Size	Order No.	Regular Price	SALE
5 gallon	LK70A770405	218.13	163.60
55 gallon	LK70A770455	1986.44	1489.83

All 55 Gallon Drums FOB Factory

8140

## DYKEM Hi-Spot Blue

- Used for locating high spots on bearing and gear surfaces
- Non-drying and non-hardening
- Transfers clearly from one surface to another
- Save valuable time and money in surface scraping work



Container Size	Order No.	Regular Price	SALE
55 oz	LL6083307	7.96	6.37

23341

## 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



Container Size	Order No.	Regular Price	SALE
11 oz	LJ6000216	13.15	10.52
1 gallon	LJ6002128	53.86	43.09

8363

## Morprod Cool-Tool® II Cutting & Tapping Fluids

- #1 Selling tapping fluid
- No 1,1,1-Trichloroethane chlorine and sulphur free
- Excellent performance on: aluminum, inconel, titanium, stainless steel & certain plastics



Container Size	Order No.	Regular Price	SALE
1 pint	LK5003016	13.64	12.00
16 oz	LK5003017	20.22	17.79
1 gallon	LK5003102	81.82	72.00

23958

## Vari High Pressure Cool Arm

- Long articulated arms provide full axis rotation
- Sturdy tightening fixtured for total stability
- Includes CA1010 hex key and CA1004 nozzle 4mm standard



Nozzle Size	Thread Type	Hose Length	Order No.	Regular Price	SALE
1/4"	NPT	238 mm	LV40CA3000	191.33	153.06

24067

## Rustlick WS-5050

Heavy-Duty Soluble Oil

- Effective chlorinated E.P. additive provides excellent tool life
- Can be used on all metals except titanium
- Compatible with CNC machining
- Additional handling charges may apply



Container Size	Order No.	Regular Price	SALE
1 gallon	LK6074016	61.48	46.65
5 gallon	LK6074056	245.71	186.44

8314

## TAP MAGIC Cutting Fluids

A cutting fluid for tapping, drilling, reaming, profile milling and sawing

- **Tap Magic with EP-Xtra:** Ozone friendly for any cut on any metal. Without equal on hard metals
- **Tap Magic/Aluminum:** The most effective cutting fluid for work on aluminum



LJ5020016A

Container Size	Ferrous Metals Non-Ferrous Metals			Aluminum		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 oz	LJ5010004E	4.22	3.17	LJ5020004A	4.22	3.17
16 oz	LJ5010016E	13.49	10.12	LJ5020016A	13.49	10.12
1 gallon	LJ5010128E	78.49	58.87	LJ5020128A	78.49	58.87

8539

## CRC Contact Cleaner 2000®

- Effective alternative to 141b-based cleaners when sensitive plastics are not a concern
- Evaporates quickly, leaves no residue
- Has no flash or fire point and contains no Class I or Class II ozone depleting chemicals
- Can be used on contacts, metal switches, motors, relays, generators, edge connectors, buss bars, circuit breakers, scales & sensors
- Not recommended for use on LEXAN®, Noryl®, or polycarbonate-type plastics



Size	Order No.	Regular Price	SALE
16 oz	LR5003150	37.42	32.93

8169

**CRC Heavy Duty Degreaser II**

- Non-chlorinated degreaser
- High flash point and non-ozone depleting
- Controlled evaporation for enhanced cleaning
- Use caution on plastics



8178

Size	Order No.	Regular Price	SALE
20 oz	LR5003120	25.93	<b>22.82</b>

**DYKEM Remover & Cleaner**

The preferred solution for all surface preparation, for application and removal of Dykem staining color and layout fluids. It has been proven that layout fluids and stains adhere better to surfaces that are prepared with this product.

- Unique formulation dilutes stains for thinner coatings
- Does not contain toluene or chlorinated solvents
- Dries in minutes



8287

Container Size	Order No.	Regular Price	SALE
16 oz	LL6082038	12.50	<b>10.00</b>
1 gallon	LL6082738	36.53	<b>29.22</b>

**GORILLA Contact Adhesive**

- Permanent Bond
- Crystal Clear
- Fast Grab - Holds in Just Seconds
- 100% Waterproof - for indoor/outdoor
- No-Run Formula
- Paintable
- Flexible
- Bonds: Metal, Glass, Fabric, Wood, Ceramic, Leather, Paper, Plastic\*, and More!



29431

Container Size	Container Type	Standard Pack	Order No.	Regular Price	SALE
0.8 oz	Tube	4	GR3230002	5.99	<b>5.24</b>
3 oz	Tube	1	GR3240002	5.99	<b>5.24</b>

**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



23725

Container Size	Color	Adhesion Strength	Order No.	Regular Price	SALE
10 ml	Blue	Medium Primerless	LM501329837	20.47	<b>19.45</b>
50 ml	Blue	Medium Primerless	LM501329467	56.94	<b>54.09</b>
250 ml	Blue	Medium Primerless	LM501329505	197.80	<b>187.91</b>

**MARKAL QUIK STIK® Fast-drying Solid Paint Marker**

- Solid paint marker advances and retracts by turning twist-up knob
- Fast-drying, vibrant paint marks dry in 5 to 7 minutes
- Marks on virtually any surface: wet, smooth, rough, or hot
- HAZ57



Color	Order No.	Regular Price	SALE
Red	LH5261049	7.32	<b>5.86</b>
Black	LH5261050	7.32	<b>5.86</b>
White	LH5261051	7.32	<b>5.86</b>
Yellow	LH5261053	7.32	<b>5.86</b>
Blue	LH5261070	7.32	<b>5.86</b>

8479

**MARKAL Valve Action® Liquid Paint Marker**

- Fast-drying, permanent paint for immediate handling reduces work downtime
- Dura-Nib medium bullet tip resists wear to provide long marking life
- Xylene-free paint reduces user health risks



Color	Order No.	Regular Price	SALE
White	LH5296820	3.00	<b>2.40</b>
Yellow	LH5296821	3.00	<b>2.40</b>
Red	LH5296822	3.00	<b>2.40</b>
Black	LH5296823	3.00	<b>2.40</b>
Orange	LH5296824	3.00	<b>2.40</b>
Blue	LH5296825	3.00	<b>2.40</b>
Green	LH5296826	3.00	<b>2.40</b>

23817

**RUST-OLEUM 1600 System Multi-Purpose Enamel Spray**

- 1600 multi-purpose paint provides up to twice the coverage of competitive brands.
- Dries to the touch in 12 minutes
- For indoor/outdoor industrial-maintenance use
- Resists chipping, fading and peeling; withstands heat to 200° F
- Extra-wide comfort nozzle prevents finger fatigue and sprays from any angle, even upside down



Container Size	Color	Order No.	Regular Price	SALE
12 oz.	Yellow Safety	RU1010795	9.12	<b>5.93</b>
12 oz.	Black-Ultra	RU1010855	9.12	<b>5.93</b>
12 oz.	Black -Glossy	RU1010865	9.12	<b>5.93</b>
12 oz.	White	RU1010890	9.12	<b>5.93</b>

28641

# ABRASIVES

## CGW Fast Cut Stationary Saw Wheels

- Aluminum oxide grain for use on metal, steel and general applications



Diam.	Thickness	Arbor Hole	Specification	Max. RPM	Standard Pack	Order No.	Regular Price	SALE
12"	1/8"	1"	A24-RBF	5100	10	MG9070105	6.77	<b>5.80</b>
14"	1/8"	5/8"	A24-QBF	4400	10	MG9036233	7.08	<b>6.20</b>
16"	5/32"	1"	A24-RBF	3820	10	MG9070106	20.29	<b>17.80</b>
20"	5/32"	1"	A24-RBF	3100	10	MG9070108	30.30	<b>26.50</b>
20"	3/16"	1"	A24-RBF	3100	10	MG9070109	34.14	<b>29.90</b>
20"	3/16"	1"	A24-RBF	3100	10	MG9070147	39.21	<b>34.30</b>

215

## WALTER Zip One Aluminum Oxide Type 1 Cut Off Wheel

- Fast, free precision cuts
- Clean cutting for less rework
- Unique mix of abrasive grains ensures cool cutting for less discoloration and warping
- Fe-free formulation-guaranteed not to contaminate stainless steel



Diameter	Thickness	Arbor Hole	Grit	Max. RPM	Standard Pack	Order No.	Regular Price	SALE
4 1/2"	1/32"	7/8"	60	13,000	25	WS011T542	5.25	<b>4.10</b>

710

## WEILER TIGER Premium Aluminum Oxide Grinding Wheels

- Delivers the right combination of performance and value
- Premium aluminum oxide grains provide an even, sharp, clean cut and a hard bond extends life and maximizes performances
- Type 27 designed with fiberglass cut back from the edge to provide instant aggressive grinding on new wheels



Diam.	Thick-ness	Specifi-cation	Max. RPM	Standard Pack	5/8"-11			7/8"		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	1/4"	A24R	13,000	10	MK5157120	4.63	<b>4.50</b>	MK5157121	2.70	<b>2.60</b>
5"	1/4"	A24R	12,200	10	MK5157122	5.64	<b>5.50</b>	MK5157123	3.84	<b>3.75</b>
6"	1/4"	A24R	10,200	10	MK5157128	7.18	<b>7.10</b>	MK5157129	4.51	<b>4.40</b>
7"	1/4"	A24R	8,500	10	MK5157124	7.79	<b>7.60</b>	MK5157125	5.50	<b>5.40</b>
9"	1/4"	A24R	6,600	10	MK5157126	9.77	<b>9.60</b>	MK5157127	7.91	<b>7.80</b>

21977

## 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.



Diam.	Thickness	Arbor Hole	Specification	Order No.	Regular Price	SALE
4 1/2"	.045"	7/8"	A36-TBF	MG9035514	2.09	<b>2.00</b>
6"	.045"	7/8"	A36-TBF	MG9035517	2.64	<b>2.50</b>
4 1/2"	.035"	7/8"	A60-TB Flex	MG9045010	2.07	<b>2.00</b>
6"	.040"	7/8"	A60-TB Flex	MG9045012	2.67	<b>2.50</b>

22862

## CGW Super Quickie Cut Reinforced Cut-Off Wheels

- Type 1 & Type 27
- #1 Wheel choice for steel applications.



Diam.	Thickness	Arbor Hole	Max. RPM	Specifi-cation	Standard Pack	Type 1			Type 27		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	.045"	7/8"	13300	A60-TBF	50	MG9045102	2.74	<b>2.60</b>	MG9045103	2.69	<b>2.60</b>

22873

## BlueFire Small Diameter Reinforced Cut Off Wheels

- BlueFire- Zirconia alumina and aluminum oxide blend
- Up to 20% improvement over previous zirconia products oxide grain blend
- 3 times the life of aluminum oxide wheels
- Ideal for stainless steel and carbon steel applications
- Excellent performance to price ratio lowers total cutting costs



- Gemini- Quality aluminum oxide
- Good choice for steel and ferrous metals
- Consistent performance at a competitive price

Diam.	Thick-ness	Arbor Hole	Max. RPM	Standard Pack	Aluminum Oxide			Zirconia Alumina		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3"	0.035"	3/8"	25,465	25	MH60030010628	2.29	<b>1.80</b>	MH60030043174	3.34	<b>2.60</b>
3"	1/16"	3/8"	25,465	25	MH60030010647	2.29	<b>2.10</b>	MH60030043175	3.39	<b>2.70</b>
4"	0.035"	3/8"	19,100	25	MH60040010630	3.52	<b>3.10</b>	MH60040043173	4.62	<b>3.60</b>
4"	1/16"	3/8"	19,100	25	MH60040010655	3.13	<b>2.80</b>	MH60040043171	4.62	<b>3.60</b>

24126

## Reinforced Toolroom Cut-Off Wheels

- Layers of fiberglass mesh extending from the wheel's center to its periphery, help these wheels withstand lateral stress and rough usage
- Contains premium aluminum oxide with high temperature resin bonds formulated for long life and fast cutting ability
- Package quantity: 25



Diam.	Thickness	Arbor Hole	Specification	Order No.	Regular Price	SALE
3"	0.06"	1/4"	A60-OBNA2	MH60030028471	9.84	<b>8.60</b>
3"	0.06"	3/8"	A60-OBNA2	MH60030028552	9.84	<b>8.60</b>
4"	0.035"	3/8"	A60-OBNA2	MH60040029621	6.68	<b>5.20</b>
6"	0.035"	1/2"	A60-OBNA2	MH60060035053	14.10	<b>11.00</b>
6"	0.035"	5/8"	A60-OBNA2	MH60060035054	14.10	<b>11.00</b>
6"	0.06"	1/2"	A60-OBNA2	MH60060035164	35.71	<b>31.30</b>
6"	0.06"	1-1/4"	A60-OBNA2	MH60060035165	38.70	<b>33.90</b>
7"	1/16"	5/8"	57A364-TB25N	MH60070022673	40.93	<b>35.80</b>
7"	0.035"	5/8"	A60-OBNA2	MH60070038787	40.93	<b>35.80</b>
7"	0.035"	1-1/4"	A60-OBNA2	MH60070038788	40.93	<b>35.80</b>
7"	0.06"	1-1/4"	A602-OBNA2	MH60070038796	40.93	<b>35.80</b>
7"	0.06"	5/8"	A60-OBNA2	MH60070038811	40.93	<b>35.80</b>
8"	0.035"	5/8"	A60-OBNA2	MH60080042979	48.53	<b>42.50</b>
8"	0.06"	5/8"	A60-OBNA2	MH60080042981	48.53	<b>42.50</b>
8"	0.06"	1-1/4"	A60-OBNA2	MH60080042983	48.53	<b>42.50</b>

24155

## 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	SP010301252146Z	3.81	<b>3.40</b>
3"	1/8"	3/8"	46	SP010301253146Z	3.76	<b>3.30</b>
4"	1/8"	1/4"	36	SP010401252136Z	8.25	<b>7.30</b>
4"	1/8"	3/8"	36	SP010401253136Z	4.42	<b>3.90</b>

25163

## SURF PRO Small Diameter Thin Cut-Off Wheels - Ceramic - Type 1

- Ceramic grain
- Fiberglass reinforced
- Durable and self-sharpening for fast, cool cutting and long wheel life
- Use on stainless steel, high tensile alloys and ferrous metals (iron, steel, welds, etc)



Diam.	Thickness	Arbor Hole	Max. RPM	Specification	Order No.	Regular Price	SALE
2"	.060"	1/4"	30,550	#707	SP010200602160C	4.07	<b>3.60</b>
2"	.060"	3/8"	30,550	#707	SP010200603160C	4.07	<b>3.60</b>
3"	.060"	1/4"	25,000	#707	SP010300602160C	6.97	<b>6.10</b>
3"	.060"	3/8"	25,000	#707	SP010300603160C	6.97	<b>6.10</b>
4"	.060"	3/8"	25,000	#707	SP010400603160C	5.15	<b>4.50</b>

25174

## **SURF PRO** Small Diameter Thin 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



Diam.	Thickness	Arbor Hole	Grit	Order No.	Regular Price	SALE
2"	.060"	1/4"	46	SP010200602146Z	3.41	<b>3.00</b>
2"	.060"	1/4"	60	SP010200602160Z	3.41	<b>3.00</b>
2"	.060"	3/8"	46	SP010200603146Z	3.41	<b>3.00</b>
2"	.060"	3/8"	60	SP010200603160Z	3.41	<b>3.00</b>
4"	.060"	3/8"	46	SP010400603146Z	5.20	<b>4.60</b>
4"	.060"	3/8"	60	SP010400603160Z	3.76	<b>3.30</b>
4"	1/16"	1/4"	46	SP010400622146Z	3.02	<b>2.70</b>
4"	1/16"	3/8"	46	SP010400623146Z	3.31	<b>2.90</b>

25176

## **CGW** Rubber Back-Up Pads

- Rubber back-up pads for use with coarse grits
- Spiral ribs provide contact points and form channels for air flow, extending disc life 30% to 50%
- Larger air holes provide cooler operating and longer abrasive disc life
- Pad size meets ANIS B186.1 standards
- Smooth face pads are excellent for general purpose applications



Air Cooled Spiral Pattern					
Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
4 1/2"	5/8"-11	Medium	MG9048220	36.42	<b>23.40</b>
5"	5/8"-11	Medium	MG9048221	37.22	<b>24.40</b>
7"	5/8"-11	Medium	MG9048222	49.41	<b>35.10</b>
9"	5/8"-11	Medium	MG9048239	56.96	<b>40.70</b>
7"	5/8"-11	Flexible	MG9049510	49.41	<b>35.10</b>
7"	5/8"-11	Rigid	MG9049511	49.41	<b>35.10</b>
4 1/2"	7/8	Medium	MG9049521	35.58	<b>23.40</b>

Air Cooled Smooth Face					
Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
7"	5/8"-11	Medium	MG9049506	40.15	<b>35.10</b>
4 1/2"	5/8"-11	Medium	MG9049508	35.58	<b>23.40</b>

Roll-On					
Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
2"	1/4"	Medium	MG9059732	10.04	<b>8.40</b>
3"	1/4"	Medium	MG9059734	11.47	<b>9.80</b>

Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
2"	1/4"	Medium	MG9059733	10.56	<b>10.40</b>
3"	1/4"	Medium	MG9059735	12.37	<b>12.20</b>

22870

## **SUPERIOR** 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	15.42	<b>13.50</b>
2"	MM5964198	12.20	<b>10.70</b>
2"	MM5964922	12.39	<b>10.90</b>
3"	MM5964949	22.62	<b>19.80</b>

25121

## **CGW** Polishing Compound

- Compound will not discolor metals
- White SS51 (1200 Grit) compound helps buff aluminum, steel, stainless and natural stone to the desired finish without adding scratches
- High gloss



Grit	Order No.	Regular Price	SALE
1200	MG9049652	10.35	<b>8.30</b>

230

## **ALUMINUM** Shop Rolls

- Coated abrasive rolls are designed for fast and easy sanding of various surfaces and can be torn to exact lengths as needed
- Handy rolls are packaged in a protective, convenient dispenser which eliminates costly waste and permits neat, easy storage
- Length - 50 yds



Grit	Width - 1"			Width - 1-1/2"			Width - 2"		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
P50	MH61R0127728	62.10	<b>54.30</b>	MH61R0127730	86.91	<b>76.00</b>	MH61R0227732	110.60	<b>96.70</b>
P60	MH61R0127729	58.12	<b>50.80</b>	MH61R0127731	81.12	<b>70.90</b>	MH61R0227733	103.27	<b>90.30</b>
P80	MH61R0126276	49.26	<b>43.10</b>	MH61R0126288	68.91	<b>60.30</b>	MH61R0226299	87.67	<b>76.70</b>
P100	MH61R0126275	47.58	<b>41.60</b>	MH61R0126287	66.68	<b>58.30</b>	MH61R0226298	84.73	<b>74.10</b>
P120	MH61R0126274	47.58	<b>41.60</b>	MH61R0126286	66.68	<b>58.30</b>	MH61R0226297	84.73	<b>74.10</b>
P150	MH61R0126273	47.58	<b>41.60</b>	MH61R0126285	66.68	<b>58.30</b>	MH61R0226296	84.73	<b>74.10</b>
P180	MH61R0126272	47.58	<b>41.60</b>	MH61R0126284	66.68	<b>58.30</b>	MH61R0226295	84.73	<b>74.10</b>
P220	MH61R0126271	47.58	<b>41.60</b>	MH61R0126283	66.68	<b>58.30</b>	MH61R0226294	84.73	<b>74.10</b>
P240	MH61R0126270	47.58	<b>41.60</b>	MH61R0126282	66.68	<b>58.30</b>	MH61R0226293	84.73	<b>74.10</b>
P280	MH61R0126269	47.58	<b>41.60</b>	MH61R0126281	66.68	<b>58.30</b>	MH61R0226292	84.73	<b>74.10</b>
P320	MH61R0126268	47.58	<b>41.60</b>	MH61R0126280	66.68	<b>58.30</b>	MH61R0226291	84.73	<b>74.10</b>
P400	MH61R0126267	47.58	<b>41.60</b>	MH61R0126279	66.68	<b>58.30</b>	MH61R0226290	84.73	<b>74.10</b>

24159

## **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



Diam.	Max. RPM	Grade	Color	Standard Pack	Order No.	Regular Price	SALE
1"	30,000	Medium	Maroon	200	TM2115392	1.25	<b>1.00</b>
1"	30,000	Very Fine	Blue	200	TM2115391	1.25	<b>1.00</b>
1 1/2"	30,000	Coarse	Brown	50	TM2108764	1.27	<b>1.00</b>
1 1/2"	30,000	Medium	Maroon	50	TM2108765	1.27	<b>1.00</b>
1 1/2"	30,000	Very Fine	Blue	50	TM2108766	1.27	<b>1.00</b>
2"	25,000	Coarse	Brown	50	TM2105528	1.84	<b>1.40</b>
2"	25,000	Medium	Maroon	50	TM2105527	1.84	<b>1.40</b>
2"	25,000	Medium	Maroon	50	TM2133791	1.98	<b>1.50</b>
2"	25,000	Very Fine	Blue	50	TM2105523	1.84	<b>1.40</b>
3"	18,000	Coarse	Brown	25	TM2105532	3.52	<b>2.60</b>
3"	18,000	Medium	Maroon	25	TM2105531	3.52	<b>2.60</b>
3"	18,000	Very Fine	Blue	25	TM2105530	3.52	<b>2.60</b>
4"	12,000	Coarse	Brown	4	TM2312954	5.10	<b>3.70</b>

Holder: MM59-64922

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## **SURF PRO** 5" & 6" PSA Discs - Aluminum Oxide

- For use on disc grinders and sanders
- Long wearing, fast cutting abrasive
- Heavy duty "X" weight resin cloth
- Easily removed without leaving residue on holders or backing plates



Diameter	Grit	Order No.	Regular Price	SALE
5"	36	SP11PSAD05036A	1.05	<b>1.00</b>
5"	40	SP11PSAD05040A	3.05	<b>2.70</b>
5"	60	SP11PSAD05060A	0.87	<b>0.80</b>
5"	80	SP11PSAD05080A	0.79	<b>0.70</b>
5"	100	SP11PSAD05100A	0.73	<b>0.70</b>
5"	120	SP11PSAD05120A	0.73	<b>0.70</b>
6"	36	SP11PSAD06036A	1.49	<b>1.40</b>
6"	40	SP11PSAD06040A	1.29	<b>1.20</b>
6"	60	SP11PSAD06060A	1.18	<b>1.10</b>
6"	80	SP11PSAD06080A	1.13	<b>1.00</b>
6"	100	SP11PSAD06100A	1.08	<b>1.00</b>
6"	120	SP11PSAD06120A	1.08	<b>1.00</b>

25146

# ABRASIVES

## 3M PSA Discs

348D

- Aluminum Oxide - X wt. cloth
- Heavy duty, cloth backed discs for more aggressive applications
- Provides excellent adhesion while removing easily



Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
2"	50	50	TM1120911	1.04	<b>0.80</b>
2"	60	50	TM1120910	1.02	<b>0.80</b>
2"	80	50	TM1120909	0.96	<b>0.70</b>
2"	120	50	TM1120907	0.91	<b>0.70</b>
3"	120	50	TM1101335	1.23	<b>0.90</b>
3"	50	50	TM1101334	1.20	<b>0.90</b>
3"	60	50	TM1101333	1.15	<b>0.90</b>
3"	80	50	TM1101332	1.10	<b>0.80</b>
3"	100	50	TM1101331	1.06	<b>0.80</b>
3"	120	50	TM1101330	1.06	<b>0.80</b>
5"	36	50	TM1120891	1.84	<b>1.40</b>
5"	40	50	TM1120890	1.73	<b>1.30</b>
5"	50	50	TM1120889	1.66	<b>1.20</b>
5"	60	50	TM1120888	1.57	<b>1.20</b>
5"	80	50	TM1120887	1.49	<b>1.10</b>
5"	100	50	TM1120886	1.43	<b>1.10</b>
5"	120	50	TM1120885	1.43	<b>1.10</b>
5"	150	50	TM1120884	1.43	<b>1.10</b>
5"	180	50	TM1120883	1.43	<b>1.10</b>
5"	240	50	TM1120881	1.43	<b>1.10</b>
6"	50	50	TM1120879	2.46	<b>1.80</b>
6"	60	50	TM1120878	2.31	<b>1.70</b>
6"	80	50	TM1120877	2.19	<b>1.60</b>
6"	100	50	TM1120876	2.04	<b>1.50</b>
6"	120	50	TM1121497	2.04	<b>1.50</b>
8"	36	50	TM1120874	4.86	<b>3.50</b>
8"	40	50	TM1120873	4.62	<b>3.30</b>
8"	60	50	TM1120871	4.20	<b>3.00</b>
8"	80	50	TM1120870	3.98	<b>2.90</b>
8"	120	50	TM1120868	3.80	<b>2.70</b>
12"	36	10	TM1188906	11.34	<b>8.10</b>
12"	40	10	TM1188905	10.70	<b>7.60</b>
12"	60	10	TM1188903	9.50	<b>6.80</b>
12"	80	10	TM1188902	8.98	<b>6.40</b>
12"	100	10	TM1188901	8.46	<b>6.00</b>
16"	36	10	TM1188890	20.85	<b>14.80</b>
16"	60	10	TM1188887	17.52	<b>12.50</b>
16"	80	10	TM1188886	16.52	<b>11.70</b>
18"	36	10	TM1188882	26.44	<b>18.80</b>
18"	60	10	TM1188880	22.19	<b>15.80</b>
20"	36	10	TM1188878	32.11	<b>22.80</b>
20"	40	10	TM1188877	30.35	<b>21.60</b>
20"	50	10	TM1188876	28.63	<b>20.30</b>
20"	60	10	TM1188875	27.01	<b>19.20</b>
20"	80	10	TM1188874	25.45	<b>18.10</b>
24"	36	10	TM1120802	45.92	<b>32.60</b>
24"	40	10	TM1120801	42.89	<b>30.40</b>
24"	80	10	TM1120798	35.30	<b>25.00</b>

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## 3M Stikit™ Disc Rolls 236U

- Aluminum Oxide - C weight paper backing
- Discs for paint, primer, wood, metal, plastic and fiberglass
- Strong paper backing provides durability and increased cut rates
- Open coat and stearate coating minimizes loading
- 100 Discs per roll, 4 rolls per case



Diameter - 6"			
Grit	Order No.	Regular Price	SALE
P80	TM1155560	95.54	<b>67.70</b>
P120	TM1155562	88.21	<b>62.50</b>
P320	TM1155567	88.21	<b>62.50</b>
400	TM1186476	88.21	<b>62.50</b>

Diameter - 5"			
Grit	Order No.	Regular Price	SALE
P150	TM1155543	62.45	<b>44.30</b>
120	TM1186490	62.45	<b>44.30</b>
180	TM1186492	62.45	<b>44.30</b>
320	TM1186495	51.15	<b>38.10</b>

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## Metallurgical Silicon Carbide Sanding Discs

- Pasco Metallurgical Silicon Carbide Sanding Discs



Plain Back					
Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
8"	60/60	25	MG9452931	0.86	<b>0.80</b>
8"	120/120	100	MG9452932	0.54	<b>0.50</b>
8"	180/180	100	MG9452933	0.66	<b>0.60</b>
8"	240/240	100	MG9452934	0.44	<b>0.40</b>
8"	320/400	100	MG9452935	0.44	<b>0.40</b>
8"	400/800	100	MG9452936	0.44	<b>0.40</b>
8"	600/1200	100	MG9452937	0.44	<b>0.40</b>
12"	60/60	100	MG9452938	1.91	<b>1.70</b>
12"	120/120	100	MG9452939	1.11	<b>1.00</b>
12"	180/180	100	MG9452940	0.98	<b>0.90</b>
12"	240/240	100	MG9452941	0.90	<b>0.80</b>
12"	320/400	100	MG9452942	0.90	<b>0.80</b>
12"	400/800	100	MG9452943	0.90	<b>0.80</b>
12"	600/1200	100	MG9452944	0.90	<b>0.80</b>

PSA					
Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
8"	60/P60	100	MG9452945	1.09	<b>1.00</b>
8"	120/P120	100	MG9452946	0.77	<b>0.70</b>
8"	180/P180	100	MG9452947	0.70	<b>0.70</b>
8"	240/P240	100	MG9452948	0.66	<b>0.60</b>
8"	320/P400	100	MG9452949	0.66	<b>0.60</b>
8"	400/P800	100	MG9452950	0.66	<b>0.60</b>
8"	600/P1200	100	MG9452951	0.66	<b>0.60</b>
12"	60/P60	100	MG9452952	2.41	<b>2.20</b>
12"	120/P120	100	MG9452953	2.39	<b>2.10</b>
12"	180/P180	100	MG9452954	1.43	<b>1.30</b>
12"	240/P240	100	MG9452955	1.45	<b>1.30</b>
12"	320/P400	100	MG9452956	1.33	<b>1.20</b>
12"	400/P800	100	MG9452957	1.33	<b>1.20</b>
12"	600/P1200	100	MG9452958	1.33	<b>1.20</b>

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## SURF PRO SGZ-SG Ceramic & Zirconia Resin Fiber Discs

Applicable Material: Stainless Steel, Titanium & Super Alloys, Mild Carbon Steel, Cold Rolled Steel, Cast Iron



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016SGZ	1.59	<b>1.40</b>
4 1/2"	7/8"	24	SP11RF457024SGZ	1.42	<b>1.30</b>
4 1/2"	7/8"	36	SP11RF457036SGZ	1.41	<b>1.30</b>
4 1/2"	7/8"	50	SP11RF457050SGZ	1.21	<b>1.10</b>
4 1/2"	7/8"	60	SP11RF457060SGZ	1.08	<b>1.00</b>
4 1/2"	7/8"	80	SP11RF457080SGZ	1.01	<b>0.90</b>
4 1/2"	7/8"	100	SP11RF457100SGZ	0.97	<b>0.90</b>
4 1/2"	7/8"	120	SP11RF457120SGZ	0.93	<b>0.90</b>
5"	7/8"	16	SP11RF057016SGZ	2.04	<b>1.80</b>
5"	7/8"	24	SP11RF057024SGZ	1.82	<b>1.60</b>
5"	7/8"	36	SP11RF057036SGZ	1.68	<b>1.50</b>
5"	7/8"	50	SP11RF057050SGZ	1.56	<b>1.40</b>
5"	7/8"	60	SP11RF057060SGZ	1.38	<b>1.30</b>
5"	7/8"	80	SP11RF057080SGZ	1.29	<b>1.20</b>
5"	7/8"	100	SP11RF057100SGZ	1.19	<b>1.10</b>
5"	7/8"	120	SP11RF057120SGZ	1.16	<b>1.10</b>
7"	7/8"	16	SP11RF077016SGZ	3.83	<b>3.40</b>
7"	7/8"	24	SP11RF077024SGZ	3.38	<b>3.00</b>
7"	7/8"	36	SP11RF077036SGZ	3.08	<b>2.70</b>
7"	7/8"	50	SP11RF077050SGZ	2.81	<b>2.50</b>
7"	7/8"	60	SP11RF077060SGZ	2.48	<b>2.20</b>
7"	7/8"	80	SP11RF077080SGZ	2.31	<b>2.10</b>
7"	7/8"	100	SP11RF077100SGZ	2.18	<b>2.00</b>
7"	7/8"	120	SP11RF077120SGZ	2.12	<b>1.90</b>

28693

## SUPERIOR CERAMIC with Grinding Aid Quick Change Discs

- Ideal for nickel alloys and heat sensitive metals
- Continuous, aggressive cutting action with self-sharpening grain
- Longest life with maximum grain retention of all quick change products



Diameter - 2"						
Type S				Type R		
Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6440311	1.03	<b>0.90</b>	MM6440329	1.03	<b>0.90</b>
50	MM6440313	0.98	<b>0.90</b>	MM6440331	0.98	<b>0.90</b>
60	MM6440314	0.90	<b>0.80</b>	MM6440332	0.90	<b>0.80</b>
80	MM6440315	0.87	<b>0.80</b>	MM6440333	0.87	<b>0.80</b>
120	MM6440316	0.87	<b>0.80</b>	MM6440334	0.87	<b>0.80</b>

Diameter - 3"						
Type S				Type R		
Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6440317	1.42	<b>1.30</b>	MM6440335	1.42	<b>1.30</b>
50	MM6440319	1.28	<b>1.20</b>	MM6440337	1.28	<b>1.20</b>
60	MM6440320	1.22	<b>1.10</b>	MM6440338	1.22	<b>1.10</b>
80	MM6440321	1.18	<b>1.10</b>	MM6440339	1.18	<b>1.10</b>
120	MM6440322	1.16	<b>1.10</b>	MM6440340	1.18	<b>1.10</b>

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## CGW Resin Fiber Discs

### Premium Aluminum Oxide:

- Designed for long life, high stock removal and cool cutting action on metal and welds.

### Zirconia Alumina:

- High concentration of Zirconia and heat-treated AO grain provides twice the cutting action of premium AO discs and is extremely heat resistant



Diameter - 4 1/2"							
Zirconia Alumina				Aluminum Oxide			
Arbor Hole	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
7/8"	36	MG9048102	1.15	<b>0.90</b>	MG9048012	0.78	<b>0.60</b>
7/8"	50	MG9048104	1.07	<b>1.05</b>	MG9048014	0.76	<b>0.60</b>
7/8"	60	MG9048105	0.97	<b>0.95</b>	MG9048015	0.71	<b>0.60</b>
7/8"	80	MG9048106	0.97	<b>0.70</b>	MG9048016	0.68	<b>0.60</b>
7/8"	100	-	-	-	MG9048017	0.68	<b>0.60</b>
7/8"	120	-	-	-	MG9048018	0.68	<b>0.60</b>

Diameter - 5"							
Zirconia Alumina				Aluminum Oxide			
Arbor Hole	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
7/8"	16	-	-	-	MG9048020	1.12	<b>0.90</b>
7/8"	24	MG9048111	1.28	<b>1.20</b>	MG9048021	0.78	<b>0.70</b>
7/8"	36	MG9048112	1.21	<b>1.10</b>	MG9048022	0.87	<b>0.80</b>
7/8"	50	MG9048114	1.12	<b>1.00</b>	MG9048024	0.81	<b>0.70</b>
7/8"	60	MG9048115	1.02	<b>1.00</b>	MG9048025	0.76	<b>0.70</b>
7/8"	80	MG9048116	0.99	<b>1.00</b>	MG9048026	0.73	<b>0.70</b>

22869

## 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	Max. RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	13,000	MK5131343	4.20	<b>4.10</b>	-	-	-
40	13,000	MK5131387	5.95	<b>5.90</b>	MK5131390	7.18	<b>7.10</b>
60	13,000	MK5131345	4.20	<b>4.10</b>	MK5131409	5.31	<b>5.20</b>
60	13,000	MK5131388	5.95	<b>5.90</b>	MK5131410	5.31	<b>5.20</b>
80	13,000	MK5131389	5.95	<b>5.90</b>	-	-	-

804

## SURF PRO Velcro Backed Resin Paper Abrasive Discs

- Aluminum oxide resin free cut treated for metal, wood and plastic
- Easy press-on/peel-off - saves time
- Hook and loop backing adds strength, reducing tearing and run cooler for longer life
- Holding power not affected by dirt, dust, heat, humidity
- We also offer the vacuum hole paper disc and conversion hardware for the clean air vacuum sanders



Order No.	Regular Price	SALE
SP11VBD500400AE	1.37	<b>1.20</b>
SP11VBD500600AE	1.21	<b>1.10</b>
SP11VBD500800AC	0.90	<b>0.80</b>
SP11VBD500800AE	1.14	<b>1.00</b>
SP11VBD500808AC	0.91	<b>0.80</b>
SP11VBD501000AC	0.82	<b>0.80</b>
SP11VBD501008AC	0.90	<b>0.80</b>
SP11VBD501200AC	0.90	<b>0.80</b>
SP11VBD501208AC	0.90	<b>0.80</b>
SP11VBD501500AC	0.90	<b>0.80</b>
SP11VBD501508AC	0.90	<b>0.80</b>
SP11VBD501800AC	0.82	<b>0.80</b>
SP11VBD501808AC	0.82	<b>0.80</b>
SP11VBD502200AC	0.82	<b>0.80</b>
SP11VBD502208AC	0.82	<b>0.80</b>
SP11VBD502400AC	0.82	<b>0.80</b>
SP11VBD502408AC	0.82	<b>0.80</b>
SP11VBD502800AC	0.82	<b>0.80</b>
SP11VBD502808AC	0.82	<b>0.80</b>
SP11VBD503200AC	0.82	<b>0.80</b>
SP11VBD503208AC	0.82	<b>0.80</b>
SP11VBD504000AC	0.82	<b>0.80</b>
SP11VBD504008AC	0.82	<b>0.80</b>
SP11VBD600400AE	1.85	<b>1.70</b>
SP11VBD600600AE	1.68	<b>1.50</b>
SP11VBD600800AC	1.21	<b>1.10</b>
SP11VBD600800AE	1.59	<b>1.40</b>
SP11VBD600808AC	1.21	<b>1.10</b>
SP11VBD601000AC	1.00	<b>0.90</b>
SP11VBD601008AC	1.00	<b>0.90</b>
SP11VBD601200AC	1.00	<b>0.90</b>
SP11VBD601208AC	0.92	<b>0.90</b>
SP11VBD601500AC	1.00	<b>0.90</b>
SP11VBD601508AC	1.00	<b>0.90</b>
SP11VBD601800AC	1.00	<b>0.90</b>
SP11VBD601808AC	1.00	<b>0.90</b>
SP11VBD602200AC	1.00	<b>0.90</b>
SP11VBD602208AC	1.00	<b>0.90</b>
SP11VBD602400AC	1.00	<b>0.90</b>
SP11VBD602408AC	1.00	<b>0.90</b>
SP11VBD602800AC	1.00	<b>0.90</b>
SP11VBD602808AC	2.81	<b>2.50</b>
SP11VBD603200AC	1.00	<b>0.90</b>
SP11VBD603208AC	1.00	<b>0.90</b>
SP11VBD604000AC	1.00	<b>0.90</b>
SP11VBD604008AC	1.00	<b>0.90</b>

25182

## SURF PRO 4-1/2" Ceramic Flap Discs

- Best choice for grinding stainless steel, titanium, inconel, and other hard metals.
- Self-sharpening grain creates a "cool grinding surface" for longer disc life and reduced production cost.
- 13300 Max. RPM



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	36	SP11FD45A27036C	10.51	<b>9.20</b>
4 1/2"	7/8"	40	SP11FD45A27040C	10.51	<b>9.20</b>
4 1/2"	7/8"	60	SP11FD45A27060C	8.88	<b>7.80</b>
4 1/2"	7/8"	80	SP11FD45A27080C	8.25	<b>7.30</b>
4 1/2"	5/8"-11	36	SP11FD45H27036C	11.71	<b>10.30</b>
4 1/2"	5/8"-11	40	SP11FD45H27040C	11.71	<b>10.30</b>
4 1/2"	5/8"-11	60	SP11FD45H27060C	10.98	<b>9.60</b>
4 1/2"	5/8"-11	80	SP11FD45H27080C	10.22	<b>9.00</b>

25134

## **SURF PRO** EAO-Premium Aluminum Oxide Resin Fiber Discs

- **Applicable Material:** Mild Carbon Steel, Cold Rolled Steel, Brass, Bronze, Aluminum & Non-Ferrous Metals, Wood & Sheetrock/Drywall



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016EAO	0.96	<b>0.90</b>
4 1/2"	7/8"	24	SP11RF457024EAO	0.90	<b>0.80</b>
4 1/2"	7/8"	36	SP11RF457036EAO	0.83	<b>0.80</b>
4 1/2"	7/8"	50	SP11RF457050EAO	0.76	<b>0.70</b>
4 1/2"	7/8"	60	SP11RF457060EAO	0.78	<b>0.70</b>
4 1/2"	7/8"	80	SP11RF457080EAO	0.71	<b>0.70</b>
4 1/2"	7/8"	100	SP11RF457100EAO	0.70	<b>0.70</b>
4 1/2"	7/8"	120	SP11RF457120EAO	0.70	<b>0.70</b>
5"	7/8"	16	SP11RF057016EAO	1.05	<b>1.00</b>
5"	7/8"	24	SP11RF057024EAO	1.05	<b>1.00</b>
5"	7/8"	36	SP11RF057036EAO	0.99	<b>0.90</b>
5"	7/8"	50	SP11RF057050EAO	0.96	<b>0.90</b>
5"	7/8"	60	SP11RF057060EAO	0.90	<b>0.80</b>
5"	7/8"	80	SP11RF057080EAO	0.90	<b>0.80</b>
5"	7/8"	100	SP11RF057100EAO	0.87	<b>0.80</b>
5"	7/8"	120	SP11RF057120EAO	0.87	<b>0.80</b>
7"	7/8"	16	SP11RF077016EAO	1.98	<b>1.80</b>
7"	7/8"	24	SP11RF077024EAO	1.88	<b>1.70</b>
7"	7/8"	36	SP11RF077036EAO	1.74	<b>1.60</b>
7"	7/8"	50	SP11RF077050EAO	1.71	<b>1.50</b>
7"	7/8"	60	SP11RF077060EAO	1.62	<b>1.50</b>
7"	7/8"	80	SP11RF077080EAO	1.56	<b>1.40</b>
7"	7/8"	100	SP11RF077100EAO	1.52	<b>1.40</b>
7"	7/8"	120	SP11RF077120EAO	1.52	<b>1.40</b>

28711

## **SURF PRO** PSC-Silicon Carbide Resin Fiber Discs

- **Applicable Material:** Concrete, Stone, Granite, Marble & Ceramic Tile, Fiberglass & Composites, Cast Iron



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016PSC	0.96	<b>0.90</b>
4 1/2"	7/8"	24	SP11RF457024PSC	0.87	<b>0.80</b>
4 1/2"	7/8"	36	SP11RF457036PSC	0.83	<b>0.80</b>
4 1/2"	7/8"	50	SP11RF457050PSC	0.80	<b>0.70</b>
4 1/2"	7/8"	60	SP11RF457060PSC	0.80	<b>0.70</b>
4 1/2"	7/8"	80	SP11RF457080PSC	0.74	<b>0.70</b>
4 1/2"	7/8"	100	SP11RF457100PSC	0.78	<b>0.70</b>
4 1/2"	7/8"	120	SP11RF457120PSC	0.78	<b>0.70</b>
5"	7/8"	16	SP11RF057016PSC	1.11	<b>1.00</b>
5"	7/8"	24	SP11RF057024PSC	1.02	<b>0.90</b>
5"	7/8"	36	SP11RF057036PSC	0.99	<b>0.90</b>
5"	7/8"	50	SP11RF057050PSC	0.96	<b>0.90</b>
5"	7/8"	60	SP11RF057060PSC	0.93	<b>0.90</b>
5"	7/8"	80	SP11RF057080PSC	0.93	<b>0.90</b>
5"	7/8"	100	SP11RF057100PSC	0.90	<b>0.80</b>
5"	7/8"	120	SP11RF057120PSC	0.90	<b>0.80</b>
7"	7/8"	16	SP11RF077016PSC	1.98	<b>1.80</b>
7"	7/8"	24	SP11RF077024PSC	2.09	<b>1.90</b>
7"	7/8"	36	SP11RF077036PSC	1.74	<b>1.60</b>
7"	7/8"	50	SP11RF077050PSC	1.68	<b>1.50</b>
7"	7/8"	60	SP11RF077060PSC	1.62	<b>1.50</b>
7"	7/8"	80	SP11RF077080PSC	1.59	<b>1.40</b>
7"	7/8"	100	SP11RF077100PSC	1.59	<b>1.40</b>
7"	7/8"	120	SP11RF077120PSC	1.56	<b>1.40</b>

28714

## **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 stainless steel, aluminum, sheet metal mild steel and brass
- CGW White (1200 Grit) Compound for aluminum, steel, and stainless steel



Diameter	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	7/8"	13,300	MG9049698	19.00	<b>17.30</b>
5"	7/8"	12,200	MG9049699	22.04	<b>21.70</b>

MUST USE WITH BUFFING COMPOUND

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## **SURF PRO** AOC- Premium Ceramic & Aluminum Oxide Resin Fiber Discs

- **Applicable Material:** Stainless Steel, Titanium & Super Alloys, Mild Carbon Steel, Cold Rolled Steel, Cast Iron



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016AOC	1.71	<b>1.50</b>
4 1/2"	7/8"	24	SP11RF457024AOC	1.56	<b>1.40</b>
4 1/2"	7/8"	36	SP11RF457036AOC	1.44	<b>1.30</b>
4 1/2"	7/8"	50	SP11RF457050AOC	1.27	<b>1.20</b>
4 1/2"	7/8"	60	SP11RF457060AOC	1.27	<b>1.20</b>
4 1/2"	7/8"	80	SP11RF457080AOC	1.12	<b>1.00</b>
4 1/2"	7/8"	100	SP11RF457100AOC	1.07	<b>1.00</b>
4 1/2"	7/8"	120	SP11RF457120AOC	1.01	<b>0.90</b>
5"	7/8"	16	SP11RF057016AOC	2.04	<b>1.80</b>
5"	7/8"	24	SP11RF057024AOC	1.98	<b>1.80</b>
5"	7/8"	36	SP11RF057036AOC	1.85	<b>1.70</b>
5"	7/8"	50	SP11RF057050AOC	1.65	<b>1.50</b>
5"	7/8"	60	SP11RF057060AOC	1.62	<b>1.50</b>
5"	7/8"	80	SP11RF057080AOC	1.44	<b>1.30</b>
5"	7/8"	100	SP11RF057100AOC	1.38	<b>1.30</b>
5"	7/8"	120	SP11RF057120AOC	1.29	<b>1.20</b>
7"	7/8"	16	SP11RF077016AOC	4.25	<b>3.80</b>
7"	7/8"	24	SP11RF077024AOC	3.69	<b>3.30</b>
7"	7/8"	36	SP11RF077036AOC	3.41	<b>3.00</b>
7"	7/8"	50	SP11RF077050AOC	3.00	<b>2.70</b>
7"	7/8"	60	SP11RF077060AOC	2.97	<b>2.60</b>
7"	7/8"	80	SP11RF077080AOC	2.58	<b>2.30</b>
7"	7/8"	100	SP11RF077100AOC	2.42	<b>2.20</b>
7"	7/8"	120	SP11RF077120AOC	2.31	<b>2.10</b>

28712

## **3M** 6" x 9" 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 of 20 only
- Save up to 10% on case qty. (60 pieces)

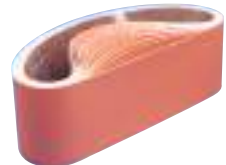


Color	Grade	Order No.	Regular Price	SALE
Light Gray	Ultra Fine	TM2204028	2.88	<b>1.70</b>
Maroon	Very Fine	TM2204029	2.88	<b>1.90</b>
Tan	Medium	TM2218451	289.78	<b>183.70</b>
Tan	Coarse	TM2265055	5.89	<b>3.60</b>
Gray	Medium	TM2265056	3.96	<b>2.40</b>

22601

## **3M** Abrasive Belts - 241D

- Aluminum oxide - X wt. cloth
- Excellent all around abrasive belt for blending and finishing



Width	Length	Grit	Order No.	Regular Price	SALE
1"	42"	60	TM1001450	2.88	<b>2.20</b>
1"	42"	80	TM1001451	2.61	<b>2.00</b>
1"	42"	100	TM1001452	2.45	<b>1.90</b>
1"	42"	120	TM1001453	2.45	<b>1.90</b>
6"	48"	60	TM1001457	12.74	<b>9.70</b>
6"	48"	80	TM1010454	11.57	<b>8.80</b>
6"	48"	100	TM1010455	10.84	<b>8.30</b>
6"	48"	120	TM1010456	10.84	<b>8.30</b>
2"	72"	180	TM1026309	4.64	<b>3.60</b>
2"	72"	60	TM1026316	5.46	<b>4.20</b>
2"	72"	80	TM1033067	4.96	<b>3.80</b>
2"	72"	240	TM1081752	4.64	<b>3.60</b>

22576



**SURF PRO** CGT-100% SG Ceramic Resin Fiber Discs

- **Applicable Material:** Stainless Steel, Titanium & Super Alloys, Mild Carbon Steel, Cold Rolled Steel



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016CGT	2.41	<b>2.20</b>
4 1/2"	7/8"	24	SP11RF457024CGT	2.19	<b>2.00</b>
4 1/2"	7/8"	36	SP11RF457036CGT	2.12	<b>1.90</b>
4 1/2"	7/8"	50	SP11RF457050CGT	1.75	<b>1.60</b>
4 1/2"	7/8"	60	SP11RF457060CGT	1.53	<b>1.40</b>
4 1/2"	7/8"	80	SP11RF457080CGT	1.41	<b>1.30</b>
4 1/2"	7/8"	100	SP11RF457100CGT	1.29	<b>1.20</b>
4 1/2"	7/8"	120	SP11RF457120CGT	1.10	<b>1.00</b>
5"	7/8"	16	SP11RF057016CGT	2.92	<b>2.60</b>
5"	7/8"	24	SP11RF057024CGT	2.84	<b>2.50</b>
5"	7/8"	36	SP11RF057036CGT	2.84	<b>2.50</b>
5"	7/8"	50	SP11RF057050CGT	2.31	<b>2.10</b>
5"	7/8"	60	SP11RF057060CGT	1.98	<b>1.80</b>
5"	7/8"	80	SP11RF057080CGT	1.82	<b>1.60</b>
5"	7/8"	100	SP11RF057100CGT	1.68	<b>1.50</b>
5"	7/8"	120	SP11RF057120CGT	1.41	<b>1.30</b>
7"	7/8"	16	SP11RF077016CGT	5.95	<b>5.20</b>
7"	7/8"	24	SP11RF077024CGT	5.45	<b>4.80</b>
7"	7/8"	36	SP11RF077036CGT	4.82	<b>4.30</b>
7"	7/8"	50	SP11RF077050CGT	4.28	<b>3.80</b>
7"	7/8"	60	SP11RF077060CGT	3.69	<b>3.30</b>
7"	7/8"	80	SP11RF077080CGT	3.38	<b>3.00</b>
7"	7/8"	100	SP11RF077100CGT	3.08	<b>2.70</b>
7"	7/8"	120	SP11RF077120CGT	2.54	<b>2.30</b>

28713

**SURF PRO** 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	Max. RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	MH60060036571	43.83	<b>34.10</b>
Medium Grit	4,140	1	MH60060036572	43.83	<b>34.10</b>
Fine Grit	4,140	1	MH60060036573	43.83	<b>34.10</b>

Diameter - 6", Width - 1", Arbor Hole - 1"					
Grade	Max. RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	MH60060037187	60.33	<b>46.90</b>
Medium Grit	4,140	1	MH60060037193	60.33	<b>46.90</b>
Fine Grit	4,140	1	MH60060037194	60.33	<b>46.90</b>

Diameter - 6", Width - 3/4", Arbor Hole - 1"					
Grade	Max. RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	MH60060037190	52.19	<b>40.60</b>
Medium Grit	4,140	1	MH60060037191	52.19	<b>40.60</b>
Fine Grit	4,140	1	MH60060037192	52.19	<b>40.60</b>

Diameter - 7", Width - 1", Arbor Hole - 1"					
Grade	Max. RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	3,600	1	MH60070042300	73.72	<b>57.30</b>
Medium Grit	3,600	1	MH60070042301	73.72	<b>57.30</b>
Fine Grit	3,600	1	MH60070042302	73.72	<b>57.30</b>

24160

**SURF PRO** Economy Diamond Wheel Dressers

- For dressing vitrified grinding wheels



Diamond Carat Size	Shank Diameter - 3/8", Shank Length - 3"			Shank Diameter - 7/16", Shank Length - 3"		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	MN45ED025A	6.66	<b>5.20</b>	MN45ED025B	6.66	<b>5.20</b>
1/2"	MN45ED050A	10.83	<b>8.50</b>	MN45ED050B	10.83	<b>8.50</b>
1"	MN45ED100A	21.63	<b>16.80</b>	MN45ED100B	21.63	<b>16.80</b>
1-1/2"	MN45ED150A	33.70	<b>26.20</b>	MN45ED150B	33.70	<b>26.20</b>
2"	MN45ED200A	42.07	<b>32.70</b>	MN45ED200B	42.07	<b>32.70</b>

674

**3M** Cubitron II Type Q Depressed Center Grinding Wheels

- 3M Cubitron II Type-Q depressed center grinding wheel uses ceramic aluminum oxide as the abrasive material
- Can be run at a maximum speed of 8,500 RPMs



Diameter	Width	Arbor Hole	Max. RPM	Order No.	Regular Price	SALE
4"	1/4"	3/8"	15,300	TM0178469	13.21	<b>10.10</b>
4"	1/4"	5/8"	15,300	TM0178468	13.21	<b>10.10</b>
4 1/2"	1/4"	5/8"	13,300	TM0164320	15.49	<b>11.80</b>
4 1/2"	1/4"	5/8"-11	13,300	TM0187397	6.81	<b>5.20</b>
4 1/2"	1/4"	5/8"-11	13,300	TM0187453	4.27	<b>3.30</b>
4 1/2"	1/4"	7/8"	13,300	TM0178466	13.72	<b>10.50</b>
5"	1/4"	5/8"	12,250	TM0164317	17.53	<b>13.30</b>
5"	1/4"	5/8"-11	12,250	TM0187446	7.76	<b>5.90</b>
5"	1/4"	7/8"	12,250	TM0178467	15.83	<b>12.10</b>
5"	1/4"	7/8"	12,250	TM0187454	4.96	<b>3.80</b>
6"	1/4"	5/8"	10,200	TM0164318	21.33	<b>16.20</b>
7"	1/4"	5/8"	8,500	TM0164319	22.68	<b>17.20</b>
7"	1/4"	5/8"-11	8,500	TM0187448	11.01	<b>8.40</b>
7"	1/4"	5/8"-11	8,500	TM0187451	9.47	<b>7.20</b>
7"	1/4"	7/8"	10,200	TM0164314	19.31	<b>14.70</b>
7"	1/4"	7/8"	8,500	TM0164315	20.25	<b>15.40</b>
9"	1/4"	5/8"	6,650	TM0187153	29.79	<b>22.60</b>
9"	1/4"	5/8"-11	6,650	TM0187449	16.17	<b>12.30</b>
9"	1/4"	5/8"-11	6,650	TM0187452	14.28	<b>10.90</b>
9"	1/4"	7/8"	6,650	TM0164316	27.39	<b>20.80</b>

95

**SURF PRO** Quantum 3 Depressed Center Wheels - Type 27 - 1/4" Wide

- Reduced hand fatigue from less cutting vibration
- For high metal removal and reduced pressure from faster cutting action
- Less downtime & waste



Diameter	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	5/8"-11	13,580	MH60D045070793	12.73	<b>9.90</b>
4 1/2"	7/8"	13,580	MH60D045070794	10.90	<b>8.50</b>
5"	5/8"-11	12,225	MH60D050070795	14.26	<b>11.10</b>
5"	7/8"	12,225	MH60D050070796	12.81	<b>10.00</b>
6"	5/8"-11	10,185	MH60D060070797	17.58	<b>13.70</b>
6"	7/8"	10,185	MH60D060070798	15.52	<b>12.10</b>
7"	5/8"-11	8,600	MH60D070070799	18.49	<b>14.40</b>
7"	7/8"	8,600	MH60D070070800	16.29	<b>12.70</b>

478

**SURF PRO** Single Point Diamond Dressing Tools

**Features:**

- Consistent diamond structure and shape for repeatable dressing performance
- Well defined diamond point
- Non-resettable



Model No	Shank Diam.	Shank Length	Max. Compatible Wheel Diameter	Order No.	Regular Price	SALE
BC2M6	3/8"	2"	7"	MH63BC95000	72.35	<b>56.20</b>
BC2M7	7/16"	2"	7"	MH63BC95001	72.35	<b>56.20</b>
BC3M6	3/8"	2"	10"	MH63BC95002	80.41	<b>62.50</b>
BC3M7	7/16"	2"	10"	MH63BC95003	80.41	<b>62.50</b>
BC5M6	3/8"	2"	14"	MH63BC95004	95.79	<b>74.40</b>
BC5M7	7/16"	2"	14"	MH63BC95005	95.79	<b>74.40</b>

24162

**Mounted Point Kits**

Tool Room Assortment

- Convenient storage box
- Use on die or in-line/straight shaft grinders
- Blending contours
- Deburring molded parts and mold finishing
- ID grinding, offhand bench grinding, tool and die
- Shank length: 1-1/2"



Spindle Diameter	Number of Pieces	Order No.	Regular Price	SALE
1/8"	100 Piece Assortment	ML50MP100	93.96	<b>71.40</b>
1/4"	50 Piece Assortment	ML50MP50	93.96	<b>71.40</b>

23264

## 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	3.19	<b>2.71</b>
1/8"	14"	5 Lb Package	7018605	HR7120250	2.99	<b>2.54</b>
5/32"	12"	5 Lb Package	7018705	HR7120260	2.99	<b>2.54</b>
3/32"	12"	10 Lb Package	70185010	HR7120270	2.99	<b>2.54</b>

2656

## 301AR/CD Shielding Gas Kit

- Kit includes 10 feet of 3/16" ID approved hose with inert fittings
- Features the Harris time proven 301 flowgauge regulators to give precise control of the most common welding shield gases up to 60 SCFH



Fuel Type	Flow Capacity	Max Inlet PSIG	Outlet Connection	ManufacturerNo	Order No.	Regular Price	SALE
Ar + Mixes	60	3000	5/8-18 RH (F)	4400229	HR7010100	159.34	<b>111.54</b>

2651

## 18 in. Utility Cart

- So rugged, it will keep up with all your jobs
- Provides versatility to the welder
- Makes your application portable
- Weighs 33 lbs.



Application	Order No.	Regular Price	SALE
For moving MIG Welders and Cylinder by hand.	LE01K520	603.32	<b>394.16</b>

Pricing could change from the mfg please call for current pricing

29083

## 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



Size	Material	Khaki			Black		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Medium	Cotton	LE01KH841M	53.53	<b>50.85</b>	LE01KH809M	53.53	<b>50.85</b>
Large	Cotton	LE01KH841L	53.53	<b>50.85</b>	LE01KH809L	53.53	<b>50.85</b>
X-Large	Cotton	LE01KH841XL	53.53	<b>50.85</b>	LE01KH809XL	53.53	<b>50.85</b>
2X-Large	Cotton	LE01KH841XXL	60.27	<b>57.26</b>	LE01KH809XXL	58.59	<b>55.66</b>

Pricing could change from the mfg please call for current pricing

28737

## 255 MIG Welder

- Welds 18ga to 1/2"
- Brass-to-brass gun connection enhances conductivity
- Built in thermal overload protection
- The welder comes with a gas regulator and hose, work cable and clamp, gun and cable assembly, contact tips, MIG welding nozzle, and an input cable with attached plug
- Smooth arc starts with minimal spatter



Output Current	Input Current	AMP Rating	Phase	Duty Cycle	Width	Height	Length	Order No.	Regular Price	SALE
255 Amp	50A	30-255 Amp	Single	20	17"	30"	34"	LE01K27831	1810.82	<b>1720.28</b>

Pricing could change from the mfg please call for current pricing

28747

## One Size Fits All Red and Black Premium Leather Welding Gloves

- Kevlar thread provides heat resistance and added seam strength
- Forearm coverage is extended for extra spatter protection
- Gloves protect hands from heat and absorb perspiration
- Is very important that the gloves selected matches the nature of the job



Size	Type	Color	Material	Order No.	Regular Price	SALE
One Size	Welding Gloves	Black/Red	Leather	LE01KH962	32.87	<b>31.23</b>

Pricing could change from the mfg please call for current pricing

29106

## Precision Tig® 275 Tig Welder

- AC Auto-Balance® automatically adjusts for the optimal mix of cleaning and penetration when welding aluminum
- Or, take full control - adjust the AC Balance® to increase or decrease cleaning action or penetration on aluminum
- Delivers the widest output range in its class with an amperage range of 2 to 340 amps
- Upgrade with the optional Advanced Pulse Control panel to enable better control over heat input, resulting in less warping and distortion on thin metals
- The Precision TIG 275 features the patented Micro-Start™ II Technology, which enhances starting and arc stability, and provides for more precise welds and crater fills



Min. Output Amps	Max. Output Amps	Amperage Rating	Input Voltage	Phase	Order No.	Regular Price	SALE
2	340	2-340	230	Single	LE01K26181	8455.92	<b>8033.12</b>
2	340	2-340	230	Single	LE01K26191	5441.78	<b>5169.69</b>
2	340	2-340	460/575	Single	LE01K26192	5835.69	<b>5543.91</b>

Pricing could change from the mfg please call for current pricing

29469

## 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
- Clamps 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	20.87	<b>14.61</b>

2763

## PRM<sup>PRO</sup> TIG Torches

Series 9, 17

- Air-cooled
- 125 & 150 Torch



150 Amp Air-cooled			
Type	Order No.	Regular Price	SALE
Flex Torch Body	WE1017F	36.10	<b>30.69</b>
Flex Torch Body	WE1017FV	37.91	<b>32.22</b>
Flex Torch Body	WE1017FVMT	99.86	<b>84.88</b>
Torch	WE1017V	30.66	<b>26.06</b>

125 Amp Air-cooled			
Type	Order No.	Regular Price	SALE
Flex Torch Body	WE109F	36.10	<b>30.69</b>
Flex Torch Body	WE109FV	61.34	<b>52.14</b>

2906

## PRM<sup>PRO</sup> Carbons

Pointed or Jointed

- Pointed sold in package quantity of 50 only
- Jointed sold in package quantity of 100 only



Pointed				
Diameter	Length	Order No.	Regular Price	SALE
3/16"	12"	WE1022033003	15.30	<b>14.54</b>
1/4"	12"	WE1022043003	17.90	<b>16.47</b>
5/16"	12"	WE1022053003	21.98	<b>20.22</b>
3/8"	12"	WE1022063003	27.53	<b>25.33</b>

Jointed				
Diameter	Length	Order No.	Regular Price	SALE
3/8"	17"	WE1024064003	191.25	<b>175.95</b>
1/2"	17"	WE1024084003	234.53	<b>215.77</b>

2950

## SOLDER-IT<sup>®</sup> Workbench Torches/Heat Gun

- Automatic Piezo ignition
- Complete portability
- Comfortable rubber grip
- Separate controls for fuel and air
- Unparalleled safety features
- 4 Hours burn time per fill
- Removable safety stand included
- Shipped empty with no fuel



Order No.	Regular Price	SALE
RT52PT200	65.61	<b>52.49</b>

3106

## 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



Silica						Cotton Duck		
Width	Height	Color	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3 feet	8 feet	Tan	RT586713M	842.95	<b>674.36</b>	-	-	-
6 feet	6 feet	Olive	-	-	-	RT5850166	206.00	<b>164.80</b>
6 feet	8 feet	Olive	-	-	-	RT5850186	248.95	<b>199.16</b>

3141

## Welding Curtain Rolls

- Ideal for instant curtains needed for maintenance projects and used widely in robotic welding areas where large curtains are needed to enclose the perimeter of a welding area
- Protects against welding spark and UV flash
- Curtains are grommeted on one side every 12"
- Simply roll out the curtain needed and cut it with scissors



Width	Length	Color	Order No.	Regular Price	SALE
60"	25 yard	Gray	RT5863225	380.69	<b>304.55</b>
60"	25 yard	Orange	RT5863825	380.69	<b>304.55</b>
60"	25 yard	Yellow	RT5863425	380.69	<b>304.55</b>

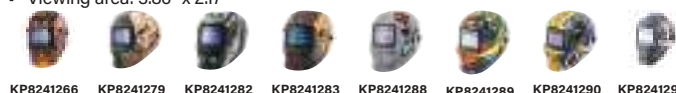
3144

## Titan Solar Powered Auto Dark Welding Helmets

- Durable, lightweight material is corrosion resistant and flame retardant
- Ultra high performance filters protect against UV and IR
- Returns to normal when welding stops w/ dark to clear adjustments available
- Special turnover headband mechanism allows for greater comfort and reduces fatigue
- Utilizes high performance solar cells with 2 built-in 3V lithium batteries as power back-up
- Viewing area: 3.86" x 2.17"



KP8241265



KP8241266 KP8241279 KP8241282 KP8241283 KP8241288 KP8241289 KP8241290 KP8241295

Window Style	Order No.	Regular Price	SALE
Auto Darkening	KP8241265	175.60	<b>114.14</b>
Auto Darkening	KP8241266	175.60	<b>114.14</b>
Auto Darkening	KP8241279	175.60	<b>114.14</b>
Fixed Front	KP8241282	175.60	<b>114.14</b>
Fixed Front	KP8241283	175.60	<b>114.14</b>
Auto Darkening	KP8241288	175.60	<b>114.14</b>
Auto Darkening	KP8241289	175.60	<b>114.14</b>
Auto Darkening	KP8241290	175.60	<b>114.14</b>
Auto Darkening	KP8241295	175.60	<b>114.14</b>

25292

## Weller Pro-Series Soldering Iron

- Heats up to working temperatures in under 15 seconds
- White LED light illuminates working surface
- Dual power (hi/lo) indicated by red and green LEDs
- Co-molded grip for a comfortable feel
- Protective safety cap turns off power when placed on tool
- Over 150 intermittent solder joints with fresh batteries
- Perfect for field service repair on small parts and components
- Includes iron, 2 tips, 4 AA batteries, lead-free solder, and tip wrench



Order No.	Regular Price	SALE
RT50BP860MP	34.40	<b>31.65</b>

3225

## 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	91.67	<b>84.34</b>

3226

## DEWALT 20V MAX 1/2" IMPACT WRENCH

- Dual LEDs help illuminate the work surface
- Variable-speed dial allows the user to match speed of the router to the application
- Depth adjustment ring allows for fast and easy height adjustments
- Soft start motor with full-time electronic feedback allows the motor to maintain speed during cuts
- Electronic brake slows the motor down faster after the unit is shut off
- Tool only.... battery and charger not included
- Router Motor, Fixed Base, Instruction Manual, Wrench



new product

Drive	Maximum RPM	Model No	Order No.	Regular Price	SALE
1/2"	0-2,300	DCF880B	PD20DCF880B	234.01	<b>205.93</b>

30734

## DEWALT 5 IN. 20V MAX XR® ANGLE GRINDER WITH KICKBACK BRAKE

- Brushless motor requires no brush changes
- Kickback Brake engages when a pinch, stall, or bind-u... will shut off includes E-CLUTCH® / OVERLOAD PROTECTION
- POWER-LOSS RESET® - The ON/OFF trigger switch has a no-volt release function
- Two stage trigger requires two actions to activate tool
- Paddle Switch
- Tool only.... battery and charger sold separately
- Includes: Side Handle, Hex Key, Inner and outer flange, 4.5 in. type 27 guard



new product

Spindle Size	Voltage	Disc Diam.	Model No	Order No.	Regular Price	SALE
5/8"-11	20 V	5"	DCG413FB	PD20DCG413FB	464.17	<b>403.83</b>

30735

## DEWALT 4.5 IN. 20V MAX XR® PADDLE SWITCH SMALL ANGLE GRINDER KIT

- Brushless motor that elongates motor life and requires no time changing out worn brushes
- Brake stops wheel in 2 seconds or less on average
- Kickback Brake engages maximum force to stop the wheel when there is a pinch, stall, or bind-up to reduce kickback, and will shut off for further protection.... Features E-Switch Protection™
- Two stage trigger requires two actions to activate tool
- PINCLUDES: Grinder, Side Handle, Hex Key, Inner and outer flange, 4.5 in. type 27 guard, 6.0 AH DCB206 Batteries Qty 2, Charger DCB115, Kitbag



new product

Spindle Size	Model No	Order No.	Regular Price	SALE
5/8"-11	DCG413R2	PD20DCG413R2	576.60	<b>501.64</b>

30736

## DEWALT FLEXVOLT® 60V MAX\* BRUSHLESS 4-1/2 IN. - 6 IN. CORDLESS GRINDER

- 13 Amp motor equivalent power 9000 rpm no-load speed for applications with 6 in. grinder wheels
- Brake engages when trigger is released with stopping speeds of 1.5 seconds
- E-CLUTCH® activates in less than a tenth of a second when a pinch/stall is detected, shutting down the motor Up to 30% more power vs the DCG414 Grinder
- Tool Only.... battery and charger sold separately
- Spindle lock
- Includes: DCG418 60V MAX\* Brushless 4-1/2 in. - 6 in. Cordless Grinder, (1) Wrench, (2) Flanges, Side Handle, (1) 4-1/2 in. (115mm) Type 27 Guard, (1) 6 in. (150mm) Type 27 Guard



new product

Spindle Size	Voltage	Max. RPM	Type of Power	Order No.	Regular Price	SALE
5/8"-11	60 V	9,000	Cordless	PD20DCG418B	367.57	<b>319.79</b>

30737

## DEWALT 20V MAX\* BRUSHLESS DRYWALL SCREWGUN & CUT-OUT TOOL COMBO KIT (2.0AH)

- Screwgun with 4,400 rpm brushless motor provides corded performance without the cord
- Both tools have DEWALT built motors that deliver maximum run-time
- Screwgun is balanced and ergonomic - comparable to the DW272 DEWALT corded screwgun
- Cut-out tool provides a durable dust sealed switch to protect the life of the tool and 26,000 rpm
- Both tools have bright LEDs to provide greater visibility
- Includes: (1) DCF620 20V MAX\* XR® Li-Ion Brushless Drywall Screwgun - Tool, (1) DCS551 20v MAX\* XR Li-Ion Cordless Cut-out Tool, (2) DCB203: 20V MAX\* Compact Li-Ion Batteries (2.0 Ah), (1) DCB112 - Multi-voltage charger



new product

Type	Model No	Order No.	Regular Price	SALE
Screwgun & Cut-Out Tool Combo Kit	DCG263D2	PD20DCK263D2	489.84	<b>426.16</b>

30738

## DEWALT 20V MAX\* CORDLESS BRUSHLESS XR® DRYWALL SCREWGUN & IMPACT DRIVER KIT (4.0AH)

- Built brushless motor in both units that delivers maximum run time
- XR® Li-Ion batteries with fuel gauge provide 33% more capacity over standard packs
- Impact driver has compact and lightweight designed to fit into tight areas
- Screwgun has up to 4,400 rpm provides greater speed, a better balanced and ergonomic than DW272 corded screwgun
- Impact driver has one-handed loading 1/4" hex chuck accepts 1" bit-tips
- Belt hook included on both units for portability as well as LEDs for increased visibility
- 3-speed settings on impact driver for optimized application versatility
- Precision drive in speed 1 for precision applications and added control
- Includes: DCF620 20V MAX\* XR® Drywall Screwgun, DCF887 20V MAX\* XR® 1/4" 3-Speed Impact Driver, (2) DCB204 20V MAX\* XR 4.0AH Battery Pack, Charger, Contractor Bag, (2) Belt Clips



new product

Type	Model No	Order No.	Regular Price	SALE
Screwgun & Impact Wrench Kit	DCK267M2	PD20DCK267M2	604.50	<b>525.92</b>

30739

## DEWALT 20V MAX\* XR® BRUSHLESS CORDLESS 3-SPEED OSCILLATING MULTI-TOOL

- The 3-speed selector allows users to choose their speed setting based on application
- Brushless motor delivers up to 57% more runtime over brushed
- Dual-Grip variable-speed trigger gives users ultimate speed and application control
- Universal accessory adapter for use with most oscillating tool accessory brands
- Quick-Change accessory system allows blades and attachments to be changed quickly without wrenches
- Bright LED illuminates dark work surfaces for accurate cutting
- Tool only.... battery and charger sold separately
- Includes: DCS356 20V MAX\* XR® Brushless Cordless Oscillating Multi-Tool, Wood with Nails Blade, Fast-Cut Wood Blade, Universal Accessory Adaptor



new product

Type	Model No	Order No.	Regular Price	SALE
Oscillating	DCS356B	PD20DCS356B	235.35	<b>204.75</b>

30740

**DEWALT FLEXVOLT® 60V MAX\* BRUSHLESS 7-1/4 IN. CIRCULAR SAW**

- Up to 47% more power vs the DCS575
- Maximum cut depth of 2-9/16 in. at a 90° bevel
- Maximum bevel capacity of 57° with bevel stops at 22.5° & 45°
- Electric brake stops the blade after the trigger is released
- Integrated LED for increased visibility and cut accuracy
- Integrated rafter hook for quick and easy storage
- Tool only.....battery and charger sold separately
- Includes: (1) DCS578 60V MAX\* Brushless 7-1/2 in. Cordless Circular Saw, (1) Blade, (1) Blade Wren



new product

Model No	Order No.	Regular Price	SALE
DCS578B	PD20DCS578B	319.62	278.07

30741

**DEWALT FLEXVOLT® 60V MAX\* BRUSHLESS 7-1/4 IN. CORDLESS CIRCULAR SAW WITH BRAKE KIT**

- Up to 47% more power vs the DCS575\*\*
- Uses a 7-1/4 in. circular saw blade and features a maximum cut depth of 2-9/16 in. at a 90° bevel
- Maximum bevel capacity of 57° with bevel stops at 22.5° and 45°
- Electric brake stops the blade after the trigger is released
- Integrated LED for increased visibility and cut accuracy
- Integrated rafter hook for quick and easy storage
- 2-batteries and charger included
- (1) DCS578 60V MAX\* Brushless 7-1/2 in. Cordless Circular Saw, (1) Blade, (1) Blade Wrench, (1) Charger, (2) DCB609 FLEXVOLT® 9.0Ah Battery (1) Kit Bag



new product

Model No	Order No.	Regular Price	SALE
DCS578X2	PD20DCS578X2	733.88	638.48

30742

**DEWALT 20V MAX\* XR® 5 IN. BRUSHLESS VARIABLE-SPEED RANDOM ORBITAL SANDER**

- Brushless motor provides runtime and efficiency to get the job done
- Variable-speed control from 8,000 to 12,000 OPM to match the speed to the application
- Low-profile height allows user to get close to work surface for precise sanding
- Dust-sealed switch to protect against dust ingestion for long switch life
- One-handed locking dust bag
- Dust port is designed to fit directly to the DWV010 or DWV012 dust collectors (sold separately)
- Tool only.... battery and charger sold separately
- Includes dust Bag



new product

Type	Model No	Order No.	Regular Price	SALE
Orbital	DCW210B	PD20DCW210B	218.42	190.03

30749

**DEWALT 20V MAX\* XR® BRUSHLESS CORDLESS COMPACT ROUTER**

- Dual LEDs help illuminate the work surface
- Variable-speed dial allows the user to match speed of the router to the application
- Depth adjustment ring allows for fast and easy height adjustments
- Soft start motor with full-time electronic feedback allows the motor to maintain speed during cuts
- Electronic brake slows the motor down faster after the unit is shut off
- Tool only.... battery and charger not included
- Router Motor, Fixed Base, Instruction Manual, Wrench



new product

Model No	Order No.	Regular Price	SALE
DCW600B	PD20DCW600B	283.24	246.42

30750

**DEWALT FLEXVOLT® 60V MAX\* 7-1/4" BRUSHLESS CORDLESS RECIPROCATING SAW**

- FASTER CUTTING: Powerful brushless motor delivers 5,500 RPM for faster cutting... UP TO 77% MORE POWER\*\* when paired with FLEXVOLT® batteries
- ELECTRIC BRAKE stops the blade after the trigger is released
- INCREASED VISIBILITY: Bright LED increases visibility and cut accuracy
- EASY STORAGE: Integrated rafter hook for quick and easy storage
- Tool Connect™ Chip Ready: Chip pocket accepts Tool Connect™ Chip DCE042 and connects with Tool Connect™ Site Manager app for easy asset management on the jobsite. (DCE042 sold separately)
- COMPATIBLE with all DEWALT® 20V MAX\* and FLEXVOLT® Batteries
- MINIMIZES DUST: Optional dust port allows connection to a dust extractor to minimize dust during cutting (DWE575DC Dust Port sold separately)
- Tool only.....battery and charger sold separately
- Includes: (1) DCS573 20V MAX\* 7-1/4 in. Brushless Cordless Circular Saw, (1) DWA171424 Saw Blade, (1) Blade Change Wrench



new product

Model No	Order No.	Regular Price	SALE
DCS573B	PD20DCS573B	315.13	274.16

30743

**DEWALT 20V MAX XR® HIGH TORQUE IMPACT WRENCH**

- Up to 700 ft-lbs of max torque and 1200 ft-lbs of max breakaway torque
- Compact design of 8-13/16 in. in length
- Multi-speed control for a variety of applications (0-400/1,200/1,900 rpm)
- 1/2 in. Anvil with detent pin
- LED with 20-second delay for increased visibility
- 3 LEDs with 20-second delay after trigger release, provide visibility without shadows
- Tool only (batteries and charger sold separately)



new product

Drive	Torque	Impacts per Minute	Voltage	Model No	Order No.	Regular Price	SALE
1/2"	700 feet/lbs	2,400	20 V	DCF899B	PD20DCF899B	407.93	354.90

30744

**DEWALT FLEXVOLT® 60V MAX\* BRUSHLESS CORDLESS RECIPROCATING SAW**

- Power of corded with the freedom of cordless
- 0 - 3000 spm and 1-1/8 in. stroke length for fast and efficient cutting
- Keyless lever-action blade clamp for quick and easy blade changes
- Variable-speed trigger allows user to instantly control speed
- Pivoting shoe provides leverage for different applications
- LED helps illuminate dark jobsite work areas
- Tool only.... battery and charger sold separately
- Includes: (1) DCS389 60V MAX\* Brushless Cordless Reciprocating Saw, (1) Blade



new product

Strokes per Minute	Model No	Order No.	Regular Price	SALE
3,000 SPM	DCS389B	PD20DCS389B	367.57	319.79

30745



## 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	107.07	101.72

1964



## 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	14.92
6"	10	5	FX8414150194773	18.85	13.20
6"	10	10	FX8414150194827	28.07	19.65
6"	14	10	FX8414150194810	28.07	19.65
6"	14	5	FX8414150194766	18.85	13.20
6"	18	10	FX8414150194803	28.07	19.65
6"	18	5	FX8414150194759	18.85	13.20
8"	10 14	5	FX8414150194957	36.82	25.77
8"	10 14	10	FX8414150194964	58.45	40.92
9"	5 8	5	FX848246662	26.78	18.75
9"	10	10	FX8414150194889	44.29	31.00
9"	10	5	FX8414150194834	22.61	15.83
9"	14	5	FX8414150194841	22.61	15.83
9"	14	10	FX8414150194872	44.29	31.00
9"	18	10	FX8414150194865	44.29	31.00
12"	5 8	5	FX848246679	33.22	23.25
12"	10	5	FX8414150194940	22.61	15.83
12"	10	10	FX8414150194896	43.00	30.10
12"	18	10	FX8414150194919	44.29	31.00

2325

## DREMEL Rotary Tool Kit

Model 3000-1/24

- Variable speed 5,000-32,000 RPM
- EZ Twist™ nose cap with wrench for fast accessory changes
- Cool-running ball bearing construction for smooth and quiet operation
- Replaceable motor brushes extend tool life
- Can be used with all Dremel rotary tool accessories and most attachments
- 2 Year warranty



Order No.	Regular Price	SALE
PH503000124	120.78	90.59

2108



## 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	30.30	21.21

2274



## 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



Order No.	Regular Price	SALE
PF3040320	706.58	628.86

2166



## '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



Order No.	Regular Price	SALE
PF3014000	717.91	638.94

2167

**Jacobs** Ball Bearing Super Chucks

- Designed for extra heavy duty drilling applications on production drilling machines, jig borers, milling machines, lathes and radials
- The ball thrust bearing reduces friction in the chuck's closing mechanism



Model No	Maximum Capacity	Mount Type	Key Style	Minimum Capacity	Order No.	Regular Price	SALE
8 1/2N	1/4"	Tapered	K30	0.040"	HK5030209	181.10	<b>166.61</b>
11N	3/8"	Tapered	K32	0.040"	HK5030215	201.81	<b>185.67</b>
14N	1/2"	Tapered	K3	0.040"	HK5030221	282.13	<b>259.56</b>
16N	5/8"	Tapered	K4	1/8"	HK5030227	323.85	<b>297.94</b>
18N	3/4"	Tapered	K4	1/8"	HK5030233	487.07	<b>448.10</b>
20N	1"	Tapered	K5	3/8"	HK5030239	655.88	<b>603.41</b>

23491

**COLMASE PNEUMATICS** 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
1/4" NPT	High Flow	LT51TYP2500CS	30.78	<b>23.09</b>
1/4" NPT	High Flow	LT51TYP2501CS	48.96	<b>36.72</b>
3/8" NPT	High Flow Multi-Jet	LT51TYP3800MJ	61.79	<b>46.34</b>

1987

**Chicago Pneumatic** Air Powered Grinders



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	118.14	<b>94.51</b>
Right Angle	Mini angle grinder compact, lightweight design, 90° angle head allows flexibility in confined areas	22,500	11 CFM	1/4" NPT	PF50CP875	115.95	<b>92.76</b>

28772

**Levogy** Blow Guns

1/4" NPT Inlet Unless Otherwise Noted



Model No	Tip Type	Order No.	Regular Price	SALE
AG2-10	Extension Reach	LX55AG2	30.52	<b>19.84</b>
AG206-BX	Tamperproof Safety	LX55AG206	16.10	<b>10.47</b>
AG218-BX	Safety Booster	LX55AG218	18.47	<b>10.04</b>
AG7	Safety	LX55AG7	17.15	<b>11.15</b>

2239

## Mitutoyo QuantuMike Digital Outside Micrometers

- Resolution: 0.0005" / 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	<b>MT80293-185-30</b>	246.17	<b>209.70</b>

4199

## 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



Measuring Range	Thimble Type	Accuracy	Order No.	Regular Price	SALE
0"-1" / 0 mm-25.4 mm	Ratchet	±0.00005"	<b>MT80293-340-30</b>	216.30	<b>173.70</b>
1"-2" / 25.4 mm-50.8 mm	Ratchet	±0.00005"	<b>MT80293-341-30</b>	263.68	<b>225.00</b>
2"-3" / 50.8 mm-76.2 mm	Ratchet	±0.00005"	<b>MT80293-342-30</b>	329.60	<b>280.80</b>
3"-4" / 76.2 mm-101.6 mm	Ratchet	± 0.0001"	<b>MT80293-343-30</b>	394.49	<b>336.60</b>

4155

## Mitutoyo Digimatic Micrometers

SERIES 293 MDC- Lite

- Carbide tipped measuring faces
- Uses (1) SR44 battery (included)
- Large LCD screen
- Resolution .00005" / 0.001mm
- No data output
- Supplied in fitted case
- Replacement battery order number is KA56357BP3



Minimum Measurement	Maximum Measurement	Thimble Type	Order No.	Regular Price	SALE
0"	1" / 25.4 mm	Ratchet	<b>MT80293-330-30</b>	260.59	<b>227.70</b>
1"	2"	Ratchet	<b>MT80293-331-30</b>	306.94	<b>268.20</b>
2" / 50.8 mm	3" / 76.2 mm	Ratchet	<b>MT80293-332-30</b>	379.04	<b>341.10</b>

4218

## Mitutoyo Dial Calipers

- Smooth sliding
- Shock protection
- Lock screw on bezel
- White face
- 6" and 8" main beam coated with titanium nitride
- .001" Graduation
- .100" Range / revolution
- +/- .002" Accuracy



Measuring Range	Order No.	Regular Price	SALE
0-6"	<b>MT80505-742J</b>	136.99	<b>117.00</b>
0-8"	<b>MT80505-743</b>	194.97	<b>170.40</b>
0-12"	<b>MT80505-746</b>	304.88	<b>260.10</b>

4113

## 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	<b>MT80500-196-30</b>	169.95	<b>148.50</b>
0-8" / 0-200 mm	<b>MT80500-197-30</b>	244.11	<b>213.30</b>
0-12" / 0-300 mm	<b>MT80500-193-30</b>	477.92	<b>417.60</b>

4126

## Mitutoyo 6 Pc. Telescope Gage Set

- 5/16" to 6" Range
- Self centering plungers
- Knurled knob on handle
- Locks on any setting



Order No.	Regular Price	SALE
<b>MT80155-903</b>	222.48	<b>189.90</b>

4082



### 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	129.78	110.70

4078

### Mitutoyo IDS Digimatic Indicators

With Absolute Encoder

- Measuring range: 0-5" / 0-12.7mm
- LCD Resolution: .0005" / 0.01mm
- Functions: origin, on/off, in/mm +/-
- Data output: SPC digimatic output
- Stem diameter: .375" -.0012"
- Contact point .16" (dia.) steel ball (4-48 UNF) No. 900032
- For SPC output order connecting cable MT80905338 (1m) or MT80905409 (2m)



Indicator Style	Order No.	Regular Price	SALE
Lug Back	MT80543-783	192.61	172.90
Flat Back	MT80543-783B	192.61	172.90

4152

### Mitutoyo "Quik-Set" Test Indicators with Dovetail Mount

Set includes: (1).078" dia. carbide point installed, (1) stem - 3/8" dia. (8mm dia. for metric indicators) plus clamp with dovetail, holding bar and .039" and .118" steel ball contact point. Supplied with fitted plastic case.

- Jeweled bearings
- Automatic reverse



Dial Color	Range per Revolution	Graduation	Dial Reading	Order No.	Regular Price	SALE
White	0.008"	0.0001"	0-4-0	MT80513-403-10T	215.27	183.60
White	0.030"	0.0005"	0-15-0	MT80513-402-10T	167.89	143.10
White	0.030"	0.0005"	0-15-0	MT80513-412-10T	233.81	198.90
Yellow	0.2mm	0.002 mm	0-100-0	MT80513-405-10T	208.06	177.30

4202

### 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	139.05	121.50
Fine Adjustment	MT807011BN	161.71	137.70
Flexible Arm	MT807012-10	219.39	187.20

4168

### Mitutoyo Quill Kit

Easy Installation Fits Most Vertical Knee Mills

- Easy to read LCD with resolution of .0005" / 0.01mm
- Push button controls for inch/mm, zero-set and on/off
- Powered by a single SR-44 battery which lasts about 1 year with normal use
- SPC output for data transmission to data processors or LED remote display box
- Digimatic quill kit complete with brackets & scale for Bridgeport type machines



Order No.	Regular Price	SALE
MT85053906	327.54	279.00

23950

## Fowler X-DEPTH™ Electronic Depth Gauge

- 0-1" travel electronic indicator with 3/8" stem
- Zero reset at any position
- On/off button
- Relative/absolute measuring
- Bottom surface of the base is hardened, ground & lapped
- Full 22" range
- Resolution .0005" / 0.01mm
- Hold feature
- 4" Base
- Includes 2 extra points for small hole applications; one .078" dia. x 1" long and one needle point x 1" long
- Includes shop-hardened case



Order No.	Regular Price	SALE
NA5554125777	310.22	<b>271.10</b>

3763

## Fowler Euro-Cal IV Electronic Caliper

- Reads in inch, metric & fractions
- Resolution: .0005"/0.01mm (fractions in 1/64th increments)
- Direct inch/metric/fraction conversion
- Absolute incremental measurement
- Water resistant to IP54 standards
- Stainless steel frame
- 4-way measuring
- RS232 output
- Includes molded plastic case



Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	NA55541003301	151.37	<b>125.00</b>
0-8" / 0-200 mm	NA5554100331	179.13	<b>165.30</b>
0-12" / 0-300 mm	NA5554100332	241.26	<b>213.20</b>

3532

## Fowler Electronic Micrometers

Xtra Value II

- Jet black, gray enamel finish
- Large LCD display
- Resolution: .00005"/0.001mm
- Direct RS 232 output
- Carbide measuring faces
- Absolute and incremental modes
- Ratchet thimble
- Includes shop hardened case



Min. Measurement	Max. Measurement	Order No.	Regular Price	SALE
0"	1" / 25 mm	NA5554870001	113.53	<b>93.70</b>
1"	2"	NA5554870002	122.59	<b>113.10</b>
2" / 50 mm	3" / 75 mm	NA5554870003	138.91	<b>128.20</b>
3" / 75 mm	4" / 100 mm	NA5554870004	155.33	<b>143.30</b>

3634

## Fowler Poly-Cal™ Electronic Caliper

- Inch/Metric/Fraction
- Range 6"/150mm
- Polycarbonate frame
- Large easy-to-read display
- Resolution .0005"/0.01mm, fractions by 1/64 increments
- Absolute / incremental measurement
- 4-Way measuring
- Accuracy +/- .008"
- Supplied with vinyl pouch



Order No.	Regular Price	SALE
NA5554101175	33.31	<b>27.50</b>

3692

## Fowler Swiss Style Micrometers

- Carbide tipped measuring faces
- Insulated frame
- Ratchet thimble and locking nut
- .0001" graduations
- Standards provided for sizes over 1"
- Meets or exceeds federal accuracy specifications
- Complete in case



Min. Measurement	Max. Measurement	Order No.	Regular Price	SALE
0"	1"	NA5552229201	62.88	<b>51.90</b>
1"	2"	NA5552229202	73.65	<b>60.80</b>
2"	3"	NA5552229203	90.87	<b>83.90</b>

3717

## Fowler Electronic Calipers

- RS232C Direct output
- Hold feature
- Preset mode now includes offset for inside jaws
- All sizes feature fine adjustment screw
- Resolution: .0005"/0.01mm
- Inch/metric conversion
- Includes wooden case



Measuring Range	Inside Jaw Depth	Order No.	Regular Price	SALE
0-12" / 0-300 mm	3.5"	NA5554100312	259.31	<b>226.60</b>
0-24" / 0-600 mm	4"	NA5554100024	381.48	<b>351.90</b>
0-40" / 0-1000 mm	6"	NA5554100042	1278.14	<b>1054.80</b>

3786

## TESA IP67 Electronic Calipers

- Perform inside, outside, depth and step measurements
- Instant inch/metric conversion
- Square shaped depth measuring rod
- Thumbwheel
- Absolute and differential measuring system
- Durable stainless steel frame
- Auto shut-off
- Battery life: approx. 2 years
- Power supply: 3V lithium-battery, type CR 2032



Measuring Range	Resolution	Order No.	Regular Price	SALE
0-6" / 0-150 mm	0.0005" / 0.01 mm	MV4545601	159.44	<b>147.10</b>
0-8" / 0-200 mm	0.0005" / 0.01 mm	MV4545602	228.66	<b>210.90</b>
0-12" / 0-300 mm	0.0005" / 0.01 mm	MV4545603	315.18	<b>290.70</b>

3367

## INSIZE™ Digital Calipers

- Absolute and incremental measurement
- Take CR2032 battery
- Automatic power off
- Data output
- Stainless steel
- Fraction reading
- Supplied with certification



Measuring Range	Resolution	Model No	Order No.	Regular Price	SALE
0-6" / 0-150 mm	0.0005" / 0.01 mm	1102-150	SZ201102150	109.18	<b>95.40</b>
0-12" / 0-300 mm	0.0005" / 0.01 mm	1102-300	SZ201102300	192.61	<b>168.30</b>

3945

## PROCHECK 6" Lite-Cal Electronic Caliper

- Range: 6" / 150mm
- Polycarbonate frame
- Large easy-to-read display
- Resolution: .0005" / .01mm (Fractions by 1/64" increments)
- Absolute / Incremental Measurement
- Direct inch / metric / fraction conversion
- 4-way measuring
- Accuracy: +/- .008"
- Supplied with clip-on vinyl pouch
- 1 Year Warranty



Order No.	Regular Price	SALE
PC20EC06150FP	24.48	17.90

4407

## PROCHECK Electronic Calipers

- Inch / metric reading with direct conversion
- Resolution: .0005"/0.01mm
- Hardened stainless steel with precision lapped finish
- 4-Way measuring inside & outside measures
- Supplied with storage case
- Replacement battery: KA56ECR2032



Measuring Range	Inside Jaw Depth	Order No.	Regular Price	SALE
0-6" / 0-150mm	1-9/16"	PC20EC061505	64.99	47.40
0-6" / 0-150 mm	1-9/16"	PC20EC06150F	64.99	47.40
0-8" / 0-200 mm	1-15/16"	PC20EC082005	103.39	75.30
0-12" / 0-300 mm	2-1/2"	PC20EC123005	153.06	111.50

4574

## FLUKE 902 FC True-RMS HVAC Clamp Meter

The Fluke 902 FC Clamp Meter, with Fluke Connect wireless connectivity, can help HVAC technicians improve productivity in the field. The rugged dual-rated CAT III 600 V, CAT IV 300 V meter equips you to perform many essential HVAC system measurements: microamps for testing pilot light sensors; resistance up to 60 kΩ; AC current and AC/DC voltage; capacitance; and contact temperature, all with just one tool. Plus its small form factor makes it easy to hang on to and navigate in tight work spaces.

- 200 μA DC current measurements to measure flame rod
- Extended resistance range to measure thermistors up to 60kΩ
- Capture flue gas temperature
- Measure start and run motor capacitors



Order No.	Regular Price	SALE
FL0713190	345.04	318.30

29895

## PROCHECK 0 - 6" Electronic Caliper

IP67 Protection

- Inside & outside measures
- Hardened stainless steel with precision lapped finish
- Replacement battery: KA56ECR2032



Caliper Type	Order No.	Regular Price	SALE
IP67	PC20EC061505I67	100.39	73.10

4638

## PROCHECK Shockproof Dial Calipers

- Tough, shockproof design
- .100" per revolution
- Covered rack
- Inside, outside, step & depth measurement
- Hardened stainless steel rack
- Supplied with storage case



Measuring Range	Graduation	Inside Jaw Depth	Range Per Revolution	Dial Face Color	Order No.	Regular Price	SALE
0-6"	0.001"	1-9/16"	0.1"	White	PC21DC06SP	71.23	47.10
0-8"	0.001"	1-15/16"	0.1"	White	PC21DC08SP	96.87	70.60
0-12"	0.001"	2-1/2"	0.1"	White	PC21DC12SP	138.14	91.40

4800

## FLUKE 87-5 Digital Multimeter

Fluke 80 Series V Digital Multimeters: The Industrial Standard. The most trusted industrial multimeter in the business. Designed and built in the U.S.A. Lifetime warranty.

- True-RMS ac voltage and current for accurate measurements on non-linear signals
- Selectable filter for accurate voltage and frequency measurements on motor drives
- 0.05 % dc accuracy
- 6000 counts, 3-3/4 digits
- Measure up to 1000 V ac and dc
- Measure up to 10 A, 20 A for up to 30 seconds
- Built in thermometer lets you carry one less tool (TC probe included)
- Frequency to 200 kHz and % duty cycle



Order No.	Regular Price	SALE
FL0612920	480.99	443.70

29879

## FLUKE Digital Multimeter

- Measures up to 1000V AC/DC voltage, 10A AC/DC current and 40MΩ resistance plus temperature, capacitance, frequency, duty-cycle, test diodes and continuity
- CAT IV 600V / CAT III 1000V safety rating
- Built to endure a 6.6-foot (2 m) drop and withstand daily wear and tear on the job site
- Low battery indicator and easily accessible battery and fuse replacement compartment
- For use in basic and controlled electromagnetic environments such as residential, business and light-industrial locations
- Includes carrying pouch, test leads, alligator clips, thermocouple with adapter and batteries



Model No	Order No.	Regular Price	SALE
MM600	KP6016035	118.43	103.50

30004

## FLUKE T6-1000 Electrical Tester

The Fluke T6-1000 Electrical Tester with FieldSense™ technology lets you quickly, safely take True rms voltage and current measurements without test leads.

- Measure voltage with or without test leads
- Be safer: measure voltage to 1000V through the open fork, without test leads
- Be faster: no need to open covers or remove wire nuts - simultaneously measure voltage and current
- Be everywhere: widest open fork in the industry, measure 4/0 wires up to 200 A



Order No.	Regular Price	SALE
FL0713155	307.30	268.60

29896

## FLUKE T5-600 Electrical Tester

The T5-600 Electrical Tester is a versatile troubleshooting tool you can carry to every job site. Use it to check voltage, continuity, and current, all with one compact, rugged tool. Just select volts, ohms, or current and the tester does the rest. For higher voltage applications check out the Fluke T5-1000.

- Automatically measures volts AC and volts DC with precise digital resolution
- Displays resistance to 1000 Ω
- Easy and accurate OpenJaw™ current measurement
- Detachable SlimReach™ probe tips are customized for national electrical standards
- Continuity beeper
- Rugged enough to withstand a 10 ft (3 m) drop
- Auto off mode to conserve battery life
- 2 year warranty



Order No.	Regular Price	SALE
FL0713140	149.34	131.10

29899

## PROCHECK 6" Digital Height Gage

- 3-Read display in inches, metric 1/128"
- IP54: splash water, oil and dust resistant
- Resolution: .0005" / 0.01mm
- Magnetic base
- 1 Year Warranty



Order No.	Regular Price	SALE
PC20EHG06AB	103.92	<b>75.70</b>

4406

## PROCHECK ABSOLUTE Digital Height Gages

- Large easy to read LCD display
- Absolute technology that memorizes origin zero
- Resolution .0005" / 0.01mm
- Accuracy .0015"
- Indication variability .0005" / 0.01mm
- Connect and interactive with Procheck absolute digital indicators
- Optional USB data kit (PC26DCBL5PIN) available
- Compatible with optional wireless adaptor (PC26WTD1ABS)



Total Range	Order No.	Regular Price	SALE
0 - 12" / 0 - 300mm	PC20HG012E	581.85	<b>423.70</b>
0 - 24" / 0 - 600mm	PC20HG024E	801.39	<b>583.60</b>

4425

## PROCHECK Super Precision Deep Bore Dial Gage Set

- Measures bore to 10" deep, Range 0.7" to 6" diameter
- Super Precision Deep Bore Gauge
- Accuracy: 0.0005" with crisp precision graduations
- Includes gage and interchangeable contact points
- Carbide tip on measuring plunger
- ABS storage case included
- 1 Year Warranty



Order No.	Regular Price	SALE
PC21DBG0765	223.69	<b>162.90</b>

4824

## PROCHECK PREMIUM Electronic Digital Internal Bore Gages

- IP54 water and dust protective rating
- Resolution: 0.00005" / 0.001mm
- Carbide measuring surfaces
- Contact points are designed to allow measurements near the bottom of blind holes
- Setting ring included
- Compatible with 3 Procheck data output options: USB or Bluetooth wireless and hardwire connect (Not included)
- Friction thimble
- Completed with protective case
- Wrench included
- Complete in molded case
- 1 Year Warranty



Min. Measurement	Max. Measurement	Order No.	Regular Price	SALE
6 mm	8 mm	PC20EIBG68MI5	756.64	<b>551.00</b>
8 mm	10 mm	PC20EIBG810MI5	722.13	<b>525.90</b>
10 mm	12 mm	PC20EIBG1012MI5	722.13	<b>525.90</b>
12 mm	16.51 mm	PC20EIBG1216MI5	634.07	<b>461.80</b>
16.5 mm	20.32 mm	PC20EIBG1620MI5	634.07	<b>461.80</b>
20.32 mm	25.40 mm	PC20EIBG2025MI5	634.07	<b>461.80</b>
25.4 mm	30.48 mm	PC20EIBG2530MI5	634.07	<b>461.80</b>
30.48 mm	40.64 mm	PC20EIBG3040MI5	686.91	<b>500.20</b>
40.64 mm	50.80 mm	PC20EIBG4050MI5	774.97	<b>564.30</b>

4580

## PROCHECK Telescoping Gages

- Measure inside diameter
- Spring loaded plunger expands within the bore
- Knurled end clamp



Min. Measurement	Max. Measurement	Order No.	Regular Price	SALE
5/16"	1/2"	PC24TSG1P	7.12	<b>5.20</b>
1/2"	3/4"	PC24TSG2P	7.42	<b>5.50</b>
3/4"	1 1/4"	PC24TSG3P	7.42	<b>5.50</b>
1 1/4"	2 1/8"	PC24TSG4P	8.38	<b>6.20</b>
2 1/8"	3 1/2"	PC24TSG5P	8.38	<b>6.20</b>
3 1/2"	6"	PC24TSG6P	8.38	<b>6.20</b>

4827

## 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	193.67	<b>162.90</b>
6	5/16" / 8.0 mm	6" / 150.0 mm	MV7052617	329.56	<b>277.20</b>

5150

## WALSH Torpedo Billet Level

- Level's patented magnet track prevents powerful rare earth magnets from falling out
- Large, easy-to-read high-visibility vials at 4 angles: level, 90, 45, and 30 degrees
- Large, top-view vial window enables easy readability from multiple angles
- High-visibility orange body is easy to see on conduit and at the jobsite
- V-Groove fits contour of conduit and pipe
- Tapered nose easily pushes into pockets



Model No	Order No.	Regular Price	SALE
935RB	KP6016175	41.16	<b>36.00</b>

30017

## PROCHECK PREMIUM 4 Pc. 12" Combination Square Set

- Precision cast & ground square, center and protractor
- 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
PC23CS1244	106.53	<b>77.60</b>

4364

## PRC CHECK 12" Combination Square Sets

### Sets consist of:

- 2 Pc. set: 12" blade, square head only
- 3 Pc. set: 12" blade, square head and center head
- 4 Pc. set: 12" blade, square head, center head and protractor head
- All sets supplied with 12" combination square blade, graduated in 8ths, 16ths, 32nds and 64ths



Number of Pieces	Order No.	Regular Price	SALE
2	NB60CS122	26.25	<b>23.00</b>
3	NB60CS123	33.09	<b>29.00</b>
4	NB60CS124	60.39	<b>52.80</b>

4367

## POWER Mini-Mag Protractor

The mini-MAG Protractor provides instant 360° digital inclination display of any angle with the additional unique feature of embedded magnets on two sides.

- Embedded magnets with 35 lb. pull
- Measuring range: 360° (4 x 90°)
- Resolution: .05°
- Accuracy: ± .1°
- Repeatability: ± .1°
- Voltage: standard 9V battery (250 hrs.)



Order No.	Regular Price	SALE
NA55544224501	121.00	<b>99.90</b>

3682

## PRC CHECK 360° Digital Level / Protractor

- IP65 Water & dust resistance
- Military grade alloy surfaces
- Alloy contracted body
- V groove surfaces
- Strong magnetic base
- Digital Level Sensor
- Anodized finish
- Precision lapping
- Micro USB Charging
- Rechargeable Battery
- Tilt Range: 0°-90° x 4
- Resolotuion: 0.05°
- Repeatability: 0.1°
- Size 6 x 2.4 x 1.2"
- HAZ05
- 1 Year Warranty



Model No	Accuracy	Type	Order No.	Regular Price	SALE
06LP360RW	0.2°	360° Digital Level Protractor with Wireless Connect	PC2306L-P360RW	119.59	<b>87.10</b>

4770

## PRC CHECK Double Squares

- Used for precision layout work
- All blades are hardened and tempered with easy to read markings



Blade Length	Graduation	Order No.	Regular Price	SALE
4"	1/8", 1/16", 1/64", 1/64"	NB60DS404R	24.59	<b>18.00</b>
4"	1/32", 1/64", 1/50", 1/100"	NB60DS416R	24.59	<b>18.00</b>
4"	0.5 mm, 1/32", 1 mm, 1/64"	NB60DS4EM	24.59	<b>18.00</b>
6"	1/8", 1/16", 1/32", 1/64"	NB60DS604R	33.22	<b>24.20</b>
6"	1/32", 1/64", 1/50", 1/100"	NB60DS616R	33.22	<b>24.20</b>
6"	0.5 mm, 1/32", 1 mm, 1/64"	NB60DS6EM	33.22	<b>24.20</b>
100 mm	1 mm, 0.5 mm both sides	NB60DS100FM	24.59	<b>18.00</b>
150 mm	1 mm, 0.5 mm both sides	NB60DS150FM	33.22	<b>24.20</b>

4558

## PRC CHECK 3 Pc. Precision Engineer Square Set

- 2", 4" & 6"
- Hardened steel
- True squares and right angles both inside and outside
- Beams and blades are ground and lapped for parallelism
- Length of blade is measured from corner edge of beam to end of blades
- DIN-1 standard
- Protective case included
- 1 Year Warranty

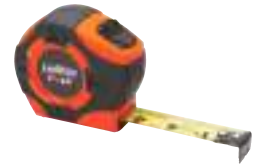


Order No.	Regular Price	SALE
PC23ESS246	77.41	<b>56.40</b>

4377

## CRESCENT Lufkin 1" x 25' Hi Vis® Power Return Tape

- Toggle lock button
- Four rivet Quad-Hook™ on 1" wide blades
- 1/16" Top and bottom, instant foot readings



Order No.	Regular Price	SALE
MZ50PHV1425	31.88	<b>22.10</b>

4012

## PRC CHECK Loupe Magnifiers with LED & UV Light

- Metal frame body
- Distortion free lenses
- LED and UV lighted lens
- 20X lenses
- Leather case included
- 1 Year Warranty



Magnification	Order No.	Regular Price	SALE
20X	PC22L20XLUV	60.15	<b>43.80</b>
10X	PC22PC22L10XLUV	49.78	<b>36.30</b>

4662

## PRC CHECK Precision Angle Gage Set

- 5° to 90° in 5° Increments
- 18 Individual gages
- 8 Gaging surfaces per gage
- Each gage checks primary, 1/2 primary and complementary angles
- Quick & accurate inspection of angles & ID or OD chamfers
- Positioning of the lathe tools for chamfers
- Inspecting angles on ground form tools and cutters



Order No.	Regular Price	SALE
NB67L300AG	49.23	<b>38.30</b>

4743

## PRO-CHECK 200X Digital Microscope with Stand

- Magnification 10x - 200x @ 17" monitor full screen view
- Optical format: 1/3" CMOS Sensor (4:3)
- Field of View: Min: 2.5mm x 1.9mm @ 17mm working distance (200x), Max: 100mm x 75mm @ 300mm working distance (10x)
- Image sensor: 2.0 Mega Pixels
- Video Capture Resolution 1600 x 1200, 1280 x 1960, 640 x 480
- Color: 24 bit RGB or YUV or MJPG
- Lens: High precision microscope lens
- Focus Range: Manual from 8mm to 300mm
- White balance: Auto
- Exposue Time: Auto
- Light Source: Integrated adjustable LED illumination
- Length: 122mm
- Diameter: 36mm
- Output: USB streaming video
- Power supply: from USB
- Software included
- Microscope stand included
- 1 Year Warranty



Order No.	Regular Price	SALE
PC22DM200S	403.34	293.70

4376

## PRO-CHECK Feeler Thickness Gages

- Straight leaf thickness gage - 1/2" wide x 3" long
- Tapered leaf thickness gage - 3" long leaves taper from 1/2" to 1/4"



Number of Leaves	Tapered or Parallel	Thicknesses Included	Order No.	Regular Price	SALE
26	Parallel	0.0015" to 0.025"	NB45STG26	9.37	6.40
9	Parallel	0.0015" to 0.015"	NB45STG9	4.87	3.40
26	Tapered	0.0015" to 0.025"	NB45TTG26	8.57	5.90

4594

## PRO-CHECK Premier 1" Travel Dial Indicators

- Range: 0 - 1"
- Indicator graduation .001 per line .100 per revolution
- 1/4" Lug back and 3/8" stem
- Flat back and carbide tip included
- 1 Year Warranty



Dial Color	Order No.	Regular Price	SALE
Black	PC21DI211BCT	24.62	18.00
White	PC21DI211WCT	24.62	18.00

4340

## PRO-CHECK Co-Axial Dial Indicators

- Designed for centering a work piece of fixture
- Operates at any angle, use vertical or horizontal
- While spindle rotates, the centering indicator always faces the operator with use of restraining rod (included)
- Center point feeler plus straight and curved feelers 4", 8" and, 12"
- Fitted plastic case
- 1 Year Warranty



Total Range	Range per Revolution	Graduation	Dial Face Diam.	Order No.	Regular Price	SALE
.240	.040	.0005	1-1/2	PC21CI250I	199.81	145.50
6mm	1mm	0.01mm	1-1/2	PC21CI250M	181.41	132.10

4506

## Fowler X-TEST Test Indicators

Twice the range of most indicators!  
Now available in HORIZONTAL & VERTICAL!

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



Graduation	Dial Face Diam.	Horizontal			Vertical		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.001"	1.0"	NA5552562003	151.48	132.40	NA5552562006	165.87	145.00
0.0005"	1.0"	NA5552562002	151.48	132.40	NA5552562005	165.87	145.00
0.0005"	1 1/2"	NA5552562001	151.48	132.40	NA5552562004	165.87	145.00

3770

## PRO-CHECK PREMIUM Dial Test Indicators - .030" Range, .0005" Graduation

- Bi-directional constant clockwise rotation with automatic reversal
- Jeweled movement and easy-to-read dial face
- Supplied with (1) each 5/32" and 3/8" dovetail stems and 3 carbide tip contact points, .040, .080, .120 diameter tip x 1/2" long
- Storage case supplied
- 1 Year Warranty



Dial Size	Dial Color	Order No.	Regular Price	SALE
1 1/4"	Black	PC21TI0301035B	73.62	53.70
1 1/4"	White	PC21TI0301035W	81.08	59.10
1 1/2"	Black	PC21TI0301505B	81.89	59.70
1 1/2"	White	PC21TI0301535W	81.89	59.70

4541

## Starrett 196A1Z Back Plunger Dial Test Indicator

- .001" Graduation
- 0-100 Dial reading
- 0-.200" Range
- 3 Point, 4 attachment and case included



Order No.	Regular Price	SALE
MV7050697	309.23	260.10

4934

## PRO-CHECK ABSOLUTE Digital Mini Indicators

- Absolute technology that memorize origin zero
- IP54 Protection, origin set, preset value
- Optional USB data kit (PC26DCBL5PIN) available
- Compatible with optional wireless adaptor (PC26WTD1ABS)
- Resolution: .00005"/0.001mm
- Accuracy: .0016"
- Carbide tip
- Connect and interactive with Procheck absolute digital height gages
- 1 Year Warranty



Total Range	Order No.	Regular Price	SALE
0-1" / 0.254	PC20EIM015ABEM	211.18	<b>153.80</b>
0-2" / 0.50	PC20EIM025ABEM	281.63	<b>205.10</b>

4552

## Starrett® 25-441J AGD 2 Dial Indicator

- 1" Travel
- .001" Graduation
- 0-100 Reading
- Lug back
- Revolution counter
- 3/8" Diameter stem
- No. 2 Series



Order No.	Regular Price	SALE
MV7053295	189.39	<b>159.30</b>

4937

## POWER Test Indicators - .030 Range

- Bi-directional constant clockwise rotation
- Automatic reversal
- Three dovetail mountings
- 3 Contact points with diameters of .040", .080" and .120"
- Jewelled movement
- Two dovetail extensions
- Molded case



Total Range	Dial Reading	Graduation	Dial Face Diameter	Contact Length	Order No.	Regular Price	SALE
0.030"	0-15-0	0.0005"	1"	1/2"	NA5552562778	151.37	<b>117.60</b>
0.030"	0-15-0	0.0005"	1"	1/2"	NA5552562775	151.37	<b>117.60</b>
0.030"	0-15-0	0.0005"	1 1/2"	1/2"	NA5552562780	171.20	<b>146.00</b>
0.030"	0-15-0	0.0005"	1-1/2"	1/2"	NA5552562776	158.28	<b>123.00</b>
0.030"	0-15-0	0.001"	1"	1/2"	NA5552562774	142.42	<b>117.60</b>

28832

## PRO-CHECK Z-Axis Setter with Magnetic Base



Order No.	Regular Price	SALE
PC21ZAS4CNCM	198.32	<b>144.50</b>

29758

## PRO-CHECK PREMIUM Procheck AGD 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



new product

Type	Indicator Style	Total Range	Dial Color	Dial Size	Graduation	Description	Order No.	Regular Price	SALE
Dial Indicator	AGD 2	1/2"	Black	2-1/4"	0.001"	Certified	PC21DI2121BC	35.70	<b>26.00</b>
Dial Indicator	AGD 2	1"	Black	2-1/4"	0.001"	Certified	PC21DI2011BC	35.70	<b>26.00</b>
Dial Indicator	AGD 2	1"	White	2-1/4"	0.001"	Certified	PC21DI2011WC	35.70	<b>26.00</b>
Dial Indicator	AGD 2	1"	White	2-1/4"	0.0005"	Certified	PC21DI2015WC	35.83	<b>29.10</b>
Dial Indicator	AGD 2	2"	Black	2-1/4"	0.001"	Certified	PC21DI2021BC	73.28	<b>53.40</b>
Dial Indicator	AGD 2	2"	White	2-1/4"	0.001"	Certified	PC21DI2021WC	73.28	<b>53.40</b>
Dial Indicator	AGD 2	1/2"	White	2-1/4"	0.001"	Certified	PC21DI2121WC	35.70	<b>26.00</b>

30766

## PRO-CHECK 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



new product

Total Range	Resolution	Description	Order No.	Regular Price	SALE
1"	0.0005"	Certified	PC20EI0112505C	74.04	<b>54.00</b>
1/2"	0.0005"	Certified	PC20EI0512505C	73.28	<b>53.40</b>

30767

## PRO-CHECK 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



new product

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	PC21DI5805MM1C	49.84	<b>36.30</b>
AGD 2	10 mm	White	0-100	2-1/4"	0.01 mm	Certified	PC21DI210MM1C	49.84	<b>36.30</b>
AGD 2	25 mm	White	0-100	2-1/4"	0.01 mm	Certified	PC21DI225MM1C	78.87	<b>57.50</b>

30768

## PRO-CHECK Individual Edge & Center Finders

- Edge finders accurately locate working edges, shoulders, grooves, center points and scribed lines
- Hardened and centerless ground to precision tolerances



Style	End Type	Shank	Tip Diameter	Order No.	Regular Price	SALE
Edge	Single End	1/2"	0.500"	NE60083	5.64	<b>4.20</b>
Edge	Double End	1/2"	0.200" x 0.500"	NE60084	6.17	<b>4.50</b>
Edge	Single End	3/8"	0.200"	NE60085	5.83	<b>4.30</b>
Edge/Center	Double End	1/2"	0.200" x Point	NE60086	8.64	<b>6.30</b>
Edge/Center	Double End	3/8"	0.200" x Point	NE60087	7.07	<b>5.20</b>
Edge	Single End	1/2"	0.200"	NE60088	6.09	<b>4.50</b>
Center	Single End	3/8"	Point	NE60089	5.83	<b>4.30</b>
Center	Single End	1/2"	Point	NE60090	7.06	<b>5.20</b>

4650

## PRO-CHECK 1/8" Steel Parallel Set

10 Pair Set

- 1/8 x 1/2 to 1/8 x 1-5/8"
- Made of high grade alloy steel, hardened and ground from 1/8" stock
- Two holes in each parallel
- Accuracy:  $\pm 0.0002$ " parallelism in height
- $\pm 0.001$ " to size in height



Order No.	Regular Price	SALE
NM55TPS11	77.09	<b>56.20</b>

4357

## Power Z-CHECK 54 Z-Axis Tool Setter

Features:

- Supplied with zero reference setting block
- Easy to read super large display
- Back light turns on when zero reference is achieved
- IP65 protected for fluid and coolant resistance
- 5 magnets embedded into base
- 2" default setting height
- Steel contact surface with 0.0002" flatness
- Range: 0.12"/3mm
- Resolution: 0.00005"/0.001 mm
- Repeatability: 0.00015"/0.004mm
- Accuracy: 0.0001"/0.003mm
- Uses 1 3V CR2032 battery
- Includes case



Order No.	Regular Price	SALE
NA55541882000	138.96	<b>122.80</b>

29367

## PRO-CHECK Magnetic Dial Indicator Base with Center Lock

Fine Adjustment:

- Sealed system
- 3/8" stem, Lug back and dovetail mount
- One knob to release and position joints
- 130 lbs holding power
- V-groove base
- 1 Year Warranty



Features	Pull Force	Order No.	Regular Price	SALE
With (1) Knob Center Lock, Fine Adjustment	130 lbf	PC21MBCL130	72.05	<b>44.90</b>

4243

## PRO-CHECK Magnetic Base Flexible Arm

Flexible Arm:

- With lever lock
- Accepts all AGD indicators
- Offers easy cam lever locking
- Total arm length 12"
- Magnet has 130 lbs holding power
- Case included

Chrome Plated Flex Arm:

- Corrosion resistant chrome plated flex arm
- 130 lbs pull magnet
- Holds rigidly in almost any position
- V-base for mounting on rounded surfaces
- 1 Year Warranty



Pull Force	Features	Order No.	Regular Price	SALE
85 lbf	Chrome, Flexible Arm	PC21MBCF130	65.34	<b>47.60</b>
130 lbf	12" Flexible Arm	PC21MBFL130	67.92	<b>49.50</b>

4244

## ALCOCK Magnetic Base

- 3/8" 8mm, 6mm & dovetail clamp
- Unique 3 point arm lock system
- Improved "at base" single direction fine adjustment
- 180 LBF magnetic base with on/off switch



Order No.	Regular Price	SALE
FN60PH2040	53.22	<b>44.40</b>

4267

## PRO-CHECK Central Lock Universal Magnetic Base

- Magnetic base indicator holder with triple-jointed arm
- Three adjustable joints controlled by a single knob
- Powerful compact magnetic base
- Positive On/Off switch
- 1 Year Warranty



Order No.	Regular Price	SALE
PC21CLMB7FA	56.19	<b>41.00</b>

4491

## Starrett® Magnetic Bases

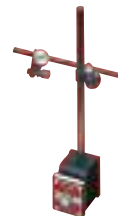
657 Series

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	240.75	<b>202.50</b>
657T	MV7052760	337.05	<b>283.50</b>

5083

## ALCOCK Flex Dial Gage Holders

- Five axis holder
- Powerful magnetic base
- Fine adjustment
- Central locking mechanism with spring loaded bearing
- 2.2 x 2.0 Arm dimension



Pull Force	Stem Hole	Description	Order No.	Regular Price	SALE
61 lbf	3/8"	Always-On Flex Dial Gage Holder with 360 Degree Fine Adj at Base	FN60NF1033	130.31	<b>108.60</b>
70 lbf	3/8"	Flex Dial Gage Holder with 360 Degree Fine Adj at Base	FN60NF1024	132.61	<b>110.50</b>
70 lbf	3/8"	Power On/Off Flex Holder with Fine Adjustment at Base-Standard Arm	FN60NF10433	114.79	<b>95.70</b>
70 lbf	3/8", 6 mm, or 8 mm	Flex Dial Gage Holder with Fine Adjustment on Top Clamp	FN60NF61003	105.51	<b>87.90</b>

28627



## Heavy Duty Magnetic Base & Procheck Indicator Set

### Noga Magnetic Base

- Central locking mechanism
- Powerful - 176 lbs. force on/off magnetic base
- Easy 3-dimensional set-up

### Procheck AGD 2 Style Dial Indicator

- 0-1" travel with 0-100 dial and .001" graduation
- Revolution counter
- Mount with 3/8" stem or lug back (supplied)

### 22 Pc. Point Set

- 22 contact points (4-48 thread)



Order No.	Regular Price	SALE
NB65DG61003DPK	133.85	<b>117.00</b>

4273

## PROCHECK Universal Mag Base & Indicator Set

- Test indicator range .030"
- Graduation .0005"
- Universal magnetic base
- Swivel range: 210°
- Protective case included
- 1 Year Warranty



Order No.	Regular Price	SALE
PC21UMB35K	98.46	<b>71.70</b>

4864

## Starrett 91 Series Straight Tap Wrenches

- Made of rugged steel
- Well proportioned and easy to handle
- Properly tempered gripping surfaces will firmly hold square or round shanks
- The plunger, operated by the knurled sleeve, backs off the instant pressure is removed from the sleeve



Size	Right Hand Thread Length	Order No.	Regular Price	SALE
1/16" to 1/4"	6"	MV7050419	76.51	<b>64.40</b>
3/16" to 1/2"	9"	MV7050420	92.02	<b>77.40</b>
1/4" to 5/8"	12"	MV7050421	148.73	<b>125.10</b>
5/16" to 3/4"	16"	MV7050422	201.16	<b>169.20</b>

25070

## 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

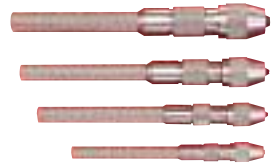


Mirror Width	Mirror Length	Material	Overall Length	Extended Length	Pull	Order No.	Regular Price	SALE
2"	2"	Glass	6 1/4"	28"	2 lbs	NE70301G240	15.40	<b>12.00</b>
1 1/2"	1 1/2"	Glass	6"	23 1/2"	2 lbs	NE70306G240	15.93	<b>12.40</b>
3"	2"	Stainless	8 1/4"	38"	7 lbs	NE70314S925	41.81	<b>32.50</b>
1 1/4"	2"	Glass	6"	24 1/4"	2 lbs	NE70315G240	15.99	<b>12.50</b>
2 1/2"	1 7/8"	Acrylic	7 3/4"	32 1/2"	12 lbs	NE70321A931	42.52	<b>33.10</b>
-	-	Glass	14 1/4"	14 1/4"	20 lbs	NE70375G990	75.21	<b>58.50</b>

4044

## Starrett 240 Series Pin Vises

- Smooth handle allows vise to be held in machine chucks or collets
- Hole through entire length to accommodate stock up to the full size capacity to end allows fast opening and closing
- All four vises have heavy nickel plated finish



Capacity	Style	Order No.	Regular Price	SALE
0.010"-0.055"	Single End	MV7051136	29.43	<b>24.80</b>
0.025"-0.075"	Single End	MV7051137	35.85	<b>30.20</b>
0.045"-0.135"	Single End	MV7051138	39.59	<b>33.30</b>
0.110"-0.200"	Single End	MV7051139	42.80	<b>36.00</b>
0.010"-0.200"	4 piece set in Protective Case	MV7051140	151.94	<b>127.80</b>

5088

## MAG-MATE Inspection Tool Kits

- Telescoping tools, mirror or magnifier, and Rare Earth magnetic retriever in a kit!
- Non-slip, solvent resistant grips
- Foam-lined snap-lock case
- Magnet diameter is 5/8" except as noted below



Note: NE70MMK301 contains a lighted magnetic pick-up tool, 4-jaw, 7/16" dia., 8-3/4" mechanical finger retriever and a round magnifying inspection mirror, and magnet is 11/16" dia..

Set Includes	Length	Order No.	Regular Price	SALE
Swivel Headed Retriever and 3X Magnifier	7 1/2"	NE70MMK204	56.60	<b>44.00</b>
Lighted Magnet pick-up tool, 4-Jaw, 7/16" dia., 8-3/4" Mechanical Finger retriever and a Round Magnifying Inspection Mirror	7"	NE70MMK301	74.40	<b>57.80</b>

4046

## Machinery's Handbook and Machinery's Handbook Guide

31st Edition

Contains useful, practical, and hard-to-find information, and provides a wealth of engineering and shop standards, illustrations, formulas, and readable tables and graphs. Authors: Oberg, Jones, Horton & Ryffel, 2,896 Pages



### Features:

- Provides extensive coverage of mathematics, cutting tools, speeds and feed, screw thread systems, metallurgy, metrology, and other critical topics
- Metric and inch dimensions of: bolts, nuts, and screws; rivets; pins and dowels; tapers; steels and non-ferrous metals; and more
- Cross-references important subjects for greater convenience

Title	Order No.	Regular Price	SALE
Machinery's Handbook, 31st Edition, Guide	MY5043312	29.95	<b>27.00</b>
Machinery's Handbook 31st Edition, Large Print Edition	MY5036314	149.95	<b>135.00</b>
Machinery's Handbook 31st Edition, Toolbox Edition	MY5037311	119.95	<b>108.00</b>

3911

## 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	32.45	<b>24.34</b>
1/4"	1/4"	2"	M6N-0808-2	KW7061020	31.21	<b>23.41</b>
1/4"	1/4"	3"	M6N-0808-3	KW7061025	33.78	<b>25.34</b>
5/16"	1/4"	3"	M6N-0810-3	KW7061030	35.12	<b>26.34</b>
5/16"	1/4"	6"	M6N-0810-6	KW7061035	41.72	<b>31.29</b>
3/8"	1/4"	3"	M6N-0812-3	KW7061040	38.83	<b>29.12</b>
3/8"	1/4"	6"	M6N-0812-6	KW7061045	46.25	<b>34.69</b>
7/16"	1/4"	3"	M6N-0814-3	KW7061050	41.20	<b>30.90</b>
1/2"	1/4"	3"	M6N-0816-3	KW7061055	42.85	<b>32.14</b>

6460

## 22 Pc. Ball Driver Hex Key Set

- Standard and metric
- Ball driver L-wrenches save time in hard to reach and blind locations
- ProGuard finish is 5 times more effective against rust
- Bondhus proprietary protanium steel and are 20 percent stronger than some competitor's tools



Set Includes	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", 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm	KN5320199	36.84	<b>22.10</b>

22803

## Ergo-Fold™ Hex Key Sets

- Fold up sets
- Standard or metric
- Ergonomic comfort grip
- Guaranteed forever



Number of Pieces	Sizes Included	Order No.	Regular Price	SALE
6	3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	KM5025161	15.66	<b>10.18</b>
7	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm	KM5025171	9.46	<b>6.15</b>
6	5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	KM5025611	15.66	<b>9.40</b>
9	5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	KM5025911	11.00	<b>6.60</b>

23147

## Ergo-Fold™ Cushion Grip Long Reach T-Handle Hex Key Bench Sets

Available in 6" or 9"

- One piece loop handle for extra strength
- Vinyl coated to reduce hand fatigue
- Standard & metric
- Includes stand



Sizes Included	Order No.	Regular Price	SALE
3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	KM5050160	62.83	<b>47.12</b>
3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	KM5050190	68.54	<b>51.41</b>
2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	KM5056168	57.93	<b>43.45</b>
2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	KM5056198	62.42	<b>46.82</b>

23146

## SLOKY® 13 Pc. TorxPlus® & Torx® LT Combo Sets

- Torx® LT Combo Set** contains (1) red LT handle, (6) torque adapters, and (6) 1" Torx bits
- The sizes included are, TX6, TX7, TX8, TX9, TX10, and TX15, and the corresponding preset torques are 5.3, 8.0, 10.6, 12.4, 17.7, and 26.6 in-lb, which equal to 0.6, 0.9, 1.2, 1.4, 2.0, and 3.0 Nm
- The dimension of the T-type handle (LT) is 2-3/4" L x 3/4" W x 1-1/2" H
- The torque adapters which have the manufacturer defined torques are magnetized and color coded
- The high alloy steel bits are also magnetized and color coded with the hardness of 58-60 HRC
- Torx Plus® LT Combo Set** contains (1) blue LT handle, (6) torque adapters, and (6) 1" Torx Plus bits
- The sizes included are, 6IP, 7IP, 8IP, 9IP, 10IP, and 15IP, and the corresponding preset torques are 5.3, 8.0, 10.6, 12.4, 17.7, and 26.6 In-lb, which equal to 0.6, 0.9, 1.2, 1.4, 2.0, and 3.0 Nm
- The dimension of the T-type handle (LT) is 2-3/4" x 3/4" x 1-1/2" (L X W X H)
- The torque adapters which have the manufacturer defined torques are magnetized and color coded
- The high alloy steel bits are also magnetized and color coded with the hardness of 58-60 HRC



Type	Order No.	Regular Price	SALE
Torx Plus Set	KL80STSIPLTS1	304.88	<b>228.66</b>
Torx Set	KL80STSTXLTS1	288.40	<b>216.30</b>

7455

## 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



Number of Pieces	Driver Style	Order No.	Regular Price	SALE
7	Torx	KN5436590	25.01	<b>18.76</b>
7	TorxPlus	KN5436592	25.01	<b>18.76</b>

25522

## WARRANTY Pliers Plier Sets

**3 Pc. Combo Set Includes:**

- 7-1/2" Long nose plier (3017)
- 7" Cutting plier (337)
- 10" Tongue & groove plier (430)

**3 Pc. Griplock® Set Includes:**

- 6" Griplock® plier (GL6)
- 10" Griplock® plier (GL10)
- 12" Griplock® plier (GL12)



LB50GS4

LB50GLS3

Set Includes	Order No.	Regular Price	SALE
6" 10" 12" Griplock Pliers	LB50GLS3	51.18	<b>40.94</b>
7 1/2" Long Nose, 7" Cutting, 10" Tongue & Groove	LB50GS4	69.96	<b>55.97</b>

22932

## Young Bros. 36 Pc. Combination Sets

### Letters & Figures

- Each stamp has one thumb groove
- Fine quality steel, special heat treatment gives three distinct hardness zones
- Sharp characters in gothic style insure deep, clear impressions
- Crown hammer end
- Consists of A-Z period and 0 to 9 interchange



Character Size	Order No.	Regular Price	SALE
1/16"	KF5001361	86.52	51.91
3/32"	KF5002361	86.52	51.91
1/8"	KF5003361	86.52	51.91
3/16"	KF5005361	108.15	64.89
1/4"	KF5006361	127.72	76.63
3/8"	KF5008361	198.79	119.27
1/2"	KF5009361	296.64	177.98

25585

## Crescent 180 Piece Mechanic's Tool Set

- Newly designed 72T Crescent quick release ratchet
- Carefully selected assortment of hand tools for most industrial, mechanical, and consumer applications. New Line Set includes 1/4", 3/8" drive tools with both SAE & Metric components, to tackle a wide range of projects
- Tools meet stringent new ANSI and ASME specifications and come with a full satisfaction guarantee
- Upgraded set includes a heavy-duty blow molded to keep your tools organized and secure
- Get incredible access from combination wrenches with narrow heads, adjustable wrenches and pliers, and a long-beam ratchets with small teardrop heads
- Blow molded case



new product

Type	Number of Pieces	Set Includes	Model no	Order No.	Regular Price	SALE
Professional Tool Kit	180	(1) 180 Pc 1/4 and 3/8 Dr 6 Pt SAE/Metric Professional Tool Set, 2 Ratchets 3 Extensions Adapter 51 Standard Sockets 31 Deep Sockets Spark Plug Socket 12 Combination Wrenches 24 Hex Keys 2 Pliers Adjustable Wrench 4 Screwdrivers Magnetic Bit Driver with 46 Bits Bit Adapter	CTK180	KW50CTK180	332.05	120.00

30732

## IRWIN VISE-GRIP Locking Pliers Sets

Original & Comfort Grip

- Jaws provides extra ordinary gripping power
- Original and new soft fast release handle

### (215G) 2 Pc. Locking Plier Set

Includes:

- 5" Curved jaw plier (5WR)
- 10" Curved jaw plier (10WR)

KX50215G



### (77T) 2 Pc. Locking Plier Set

Includes:

- 10" Curved jaw plier with wire cutter
- 6" Long nose jaw plier with wire cutter



KX50428GS



KX5077T

### (428GS) 4 Pc. Locking Plier Set Includes:

- 5" Curved jaw plier (5WR)
- 6" Long nose plier (6LN)
- 7" Straight jaw plier (7R)
- 10" Curved jaw plier (10CR)
- Plus storage pouch

### (2076709) 6 Pc. Fast Release Set Includes:

- 10", 7", 5" Curved jaw locking plier with wire cutter
- 6" Long nose locking plier
- 6" & 11" Locking c-clamps

Number of Pieces	Handle Type	Order No.	Regular Price	SALE
2	Standard	KX50215G	41.59	27.03
4	Standard	KX50428GS	88.84	57.75
2	ProTouch Grip	KX5077T	47.50	30.88

23473

## 14 Pc. Journeyman Apprentice Tool Set

- This 14-Piece tool kit gives the trade apprentice a solid foundation of tools to begin their career
- The set includes four sets of pliers, a wire stripper/cutter, two nut drivers, five screwdrivers and a nylon tool pouch and belt to carry them all on the job
- The screwdrivers and nut drivers feature Cushion-Grip handles for better torque and less fatigue
- A variety of tips and shaft lengths cover a wide array of tasks



Number of Pieces	Set Includes	ManufacturerNo	Order No.	Regular Price	SALE
14	9" Journeyman Lineman's Pliers w/ Fish Tape Pulling (Cat. No. J2139NETP), 10" Journeyman Pump Pliers (Cat. No. J502-10), 8" Journeyman Long Nose Pliers (Cat. No. J2038), 8" Journeyman Diagonal-Cutters (Cat. No. J20048), Wire Stripper/Cutter (Cat. No. 11055), #1 Phillips Screwdriver, 3" (Cat. No. 603-3), #2 Phillips Screwdriver, 4" (Cat. No. 603-4), #2 Square Screwdriver, 4" (Cat. No. 662), 1/4" Cabinet-Tip Screwdriver 4" (Cat. No. 605-4), 3/16" Cabinet Tip Screwdriver 6" (Cat. No. 601-6), 1/4" Nut Driver (Cat. No. 630-1/4), 5/16" Nut Driver (Cat. No. 630-5/16), 12-Pocket Tool Pouch (Cat. No. 5720), Work Belt (Cat. No. 5705)	92914	KP6010825	375.62	356.84

28992

## STANLEY 65 Pc. Mixed Tool Set

- Forged from high-quality steel and finished in high-polish nickel chrome or black chrome
- Ratchet handles are ergonomically designed and have an easy-to-use, thumb-operated reverse-switch mechanism
- Sockets and extensions remain locked onto the drive until disengaged with an easy-to-reach, low-profile quick-release button
- Feature Max-Drive™ design, a unique radius corner design that provides 15% more torque than standard sockets to tighten fasteners easily and simplify the turning of rounded corners
- Max-Drive™ helps reduce fastener wear by minimizing contact on the outer 5% of the fastener, helping to increase life expectancy than standard sockets
- Max-Drive™ helps reduce slipping on frozen or rusted fasteners
- Meets ANSI specification



Sizes Included	Model No	Order No.	Regular Price	SALE
(30) 1/4" Drive Specialty Bits; (8) 1/4" Drive Sockets; (1) Each 16' Tape Rule, 18mm Snap-off Knife, 1/4" Dr. Bit Holder, 1/4" Drive Round Head Ratchet, Spinner Handle, Claw Hammer, Torpedo Level, 6" Long Nose Pliers, 6" Slip Joint Pliers, 2 Pt. Phillips Screwdriver, 65mm Flat Screwdriver, (8) Ea. SAE & Metric Hex Keys; Blow Molded Carry Case	94-248	KP435684	96.12	88.43

7709

## 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



Overall Length	Bastard			2-nd Cut			Smooth		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	KL3011430410	6.05	<b>5.14</b>	KL3011430420	8.41	<b>7.32</b>	KL3011430430	8.97	<b>7.80</b>
6"	KL3011430610	6.64	<b>5.78</b>	KL3011430620	8.83	<b>7.68</b>	KL3011430630	9.28	<b>8.07</b>
8"	KL3011430810	7.35	<b>6.39</b>	KL3011430820	9.20	<b>8.00</b>	KL3011430830	10.82	<b>9.41</b>
10"	KL3011431010	9.20	<b>8.00</b>	KL3011431020	11.92	<b>10.37</b>	KL3011431030	12.94	<b>11.26</b>
12"	KL3011431210	15.38	<b>13.38</b>	KL3011431220	16.96	<b>14.76</b>	KL3011431230	19.13	<b>16.64</b>

7476

## 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, 2<sup>nd</sup> cut for moderate stock removal and Smooth for finishing
- 100% warranty against manufactures defect



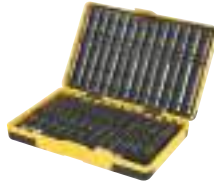
Overall Length	2nd Cut			Bastard			Smooth		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	-	-	-	PR0410104	4.38	<b>2.63</b>	PR0410204	5.25	<b>3.15</b>
6"	PR0410006	5.56	<b>3.34</b>	PR0410106	4.48	<b>2.69</b>	PR0410206	5.61	<b>3.37</b>
8"	PR0410008	6.95	<b>4.17</b>	PR0410108	5.61	<b>3.37</b>	PR0410208	7.06	<b>4.24</b>
10"	PR0410010	8.45	<b>5.07</b>	PR0410110	7.78	<b>4.67</b>	PR0410210	9.48	<b>5.69</b>
12"	PR0410012	11.43	<b>6.86</b>	PR0410112	11.07	<b>6.64</b>	PR0410212	13.18	<b>7.91</b>
14"	-	-	-	PR0410114	17.10	<b>10.26</b>	PR0410214	21.17	<b>12.70</b>

28638

## 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	<b>54.99</b>

\* Available while supplies last

7882

## PRM PRO. 15 Pc. Combination Wrench Set

- 12 Point - Satin Finish
- Sizes Included: 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"
- Fits 4, 6 and 12 point fasteners
- Anti-Slip Design (ASD) † open end
- Box ends incorporate the TorquePlus™ system
- Satin finish



ManufacturerNo	Order No.	Regular Price	SALE
J1200FASD	KP4213960	491.01	<b>437.00</b>

† Fractional sizes 11/32" and smaller do not have the ASD feature

7074

## TITAN 3 Pc. Damaged Screw Extractor Set

- For use with removing size 4-14 screws and bolts up to 5/16"
- Double sided extractor tips remove stripped screws and bolts
- Drill out, flip bit and extract screw

Includes (3) double sided extractors:

- #1: Screw size 4-7, SAE bolt size 7/32", mm bolt size 5mm
- #2: Screw size 8-10, SAE bolt size 1/4", mm bolt size 6mm
- #3: Screw size 11-14, SAE bolt size 5/16", mm bolt size 8mm



Order No.	Regular Price	SALE
KP8211215	18.87	<b>12.27</b>

7887

## wiha 11 Pc. Insulated Tool Set

A Must for SAFE Electrical Repair

- 1000 Volt Rated
- (1) - 8" Combination linemans pliers
- (1) - 6-1/2" Long nose pliers
- (1) - 8" Long nose pliers
- (1) - 6-1/2" Diagonal cutters
- (1) - 8" Heavy duty high leverage cutter
- (1) - Canvas tool bag (made in USA)
- 6 Pc. Insulated screwdriver set - phillips & slotted (made in Germany)
- Tested & approved for the following standards: VDE 0680-201, ASTM F-1505-01, EN 60900



Order No.	Regular Price	SALE
KN5432977	261.95	<b>196.46</b>

28731

## 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	<b>17.65</b>

6647

## LEWAN TONGUE & GROOVE Tongue & Groove Pliers

- Straight jaw
- Patented undercut tongue and groove design assures no slip jaw action
- Channellock Blue® comfort grips



Overall Length	Round Capacity	Order No.	Regular Price	SALE
4 1/2"	1/2"	LB50424	19.29	<b>18.33</b>
6 1/2"	7/8"	LB50426	16.67	<b>13.34</b>
9 1/2"	1 1/2"	LB50420	20.11	<b>16.09</b>
10"	2"	LB50430	20.93	<b>16.74</b>
12"	2 1/4"	LB50440	23.74	<b>18.99</b>
16 1/2"	4 1/4"	LB50460	39.49	<b>31.54</b>

22939

## wiha TORX® Soft Grip Side Drive T-Handle Set

- Side drive feature for high torque requirements
- Handles made with ergonomic comfort grips
- High strength steel
- Lifetime warranty against manufacturer defects



Number of Pieces	Sizes Included	Order No.	Regular Price	SALE
7	T10, T15, T20, T25, T27, T30, T40	KN5436497	79.68	<b>59.76</b>

8013

## 10 Pc. Extractor Set

- Will remove broken screws, bolts, studs and pipes
- Will handle a range from 1/4" to 1-1/2"
- A space for the proper drill size has been molded in the case for your convenience



For Removing	Drive Size	Order No.	Regular Price	SALE
1/4" - 5/16", 3/8", 7/16", 1/2" - 9/16", 5/8", 3/4", 7/8", 1" - 1-1/8", 1-1/4" - 1-3/8", 1-1/2"	1/8", 3/16", 7/32", 5/16", 3/8", 15/32", 9/16", 21/32", 13/16", 11/16"	KP30EXS10	158.76	<b>103.19</b>

7518

## 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.



Min. Torque	Max. Torque	Increments	Order No.	Regular Price	SALE
10 cNm	80 cNm	1 cNm	KL4561NSM	294.17	<b>176.50</b>
40 cNm	200 cNm	2 cNm	KL45151NSM	300.89	<b>180.53</b>
50 cNm	450 cNm	5 cNm	KL45401NSM	315.30	<b>189.18</b>
3 inch/lbs	15 inch/lbs	0.2 inch/lbs	KL45151SM	300.89	<b>180.53</b>
5 inch/lbs	40 inch/lbs	0.5 inch/lbs	KL45401SM	315.31	<b>189.19</b>
20 inch/oz	100 inch/oz	1 inch/oz	KL4561ISM	299.88	<b>179.93</b>

7489

## Adjustable Spanner Wrenches - Hook & Pin

- Ideal for adjusting collars, lock nut rings, and bearings
- Specifically engineered to hold up under the most rigorous industrial use
- Industrial black finish, SAE
- Alloy steel



KP30471

KP300471

Adjustable Hook Spanner Wrench						
Max. Capacity	Overall Length	Pin Length	Pin Diam.	Order No.	Regular Price	SALE
2"	6 3/8"	-	-	KP30471	39.69	<b>25.80</b>
3"	8 1/8"	-	-	KP30472	44.99	<b>29.24</b>
4 3/4"	11 3/8"	-	-	KP30474	62.75	<b>40.79</b>
6 1/4"	12 1/8"	-	-	KP30474A	66.34	<b>43.12</b>
8 3/4"	13 3/4"	-	-	KP30474B	80.14	<b>52.09</b>

Adjustable Pin Spanner Wrench						
Max. Capacity	Overall Length	Pin Length	Pin Diam.	Order No.	Regular Price	SALE
2"	6"	1/8"	1/8"	KP300471	41.77	<b>27.15</b>
2"	6 1/8"	5/32"	3/16"	KP300471A	41.77	<b>27.15</b>
3"	7 1/2"	3/16"	3/16"	KP300472	47.25	<b>30.71</b>
3"	7 1/2"	7/32"	1/4"	KP300472A	47.25	<b>30.71</b>
4 3/4"	10 1/2"	1/4"	1/4"	KP300474	65.02	<b>42.26</b>
6 1/4"	10 1/2"	1/4"	3/8"	KP300474A	69.74	<b>45.33</b>

7563

## Line-Up Pry Bar

- Long, tapered end for aligning and adjusting metal or wood
- Angled chisel end for extra leverage when prying
- Variety of lengths for work in hard-to-reach spots and more leverage
- Black oxide finish for additional rust protection



Thickness	Overall Length	Order No.	Regular Price	SALE
1/2"	14"	KS50468	21.54	<b>16.16</b>
5/8"	16"	KS50469	26.40	<b>19.80</b>
3/4"	20"	KS50471	34.24	<b>25.68</b>
3/4"	24"	KS50472	39.70	<b>29.78</b>
7/8"	30"	KS50473	51.38	<b>38.54</b>

6872

## Clik-Stop® Adjustable Spud Wrench

- Non-reflective black oxide finish for use where none plated products are required
- CLIK-STOP® jaw locking feature automatically locks the movable jaw in a fixed position
- Large jaw opening fits all nuts and bolts up to 1-1/2 inches
- Square jaw opening provides strength and tight fit
- Eliminates the need for carrying several fixed size wrenches
- Hardened taper handle aligns bolt and rivet holes



Jaw Capacity	Overall Length	Model No	Order No.	Regular Price	SALE
1 1/2"	16 3/32"	J712SC	KP4216380	113.33	<b>109.24</b>

7208

## Pear Head Quick-Release™ Ratchets

- Stanley® ratchets and accessories are designed to meet or exceed ANSI specifications
- Forged from high-quality steel and finished in high-polish chrome
- Selected Stanley® high-torque ratchets have a Quick Release™ mechanism for one-handed use
- Sockets and extensions remain locked onto the drive until disengaged with an easy-to-reach, low-profile quick-release button
- Stanley® Pear Head Ratchets have a slim profile and a small 7° arc-swing for accessing hard-to-reach fasteners
- Ratchet handles are ergonomically designed
- Pear head design for strength, durability and performance



Drive Size	Overall Length	Model No	Order No.	Regular Price	SALE
1/4"	5 1/2"	91-928	KP435668	17.25	<b>15.87</b>
1/4"	7"	89-961	KP435662	42.77	<b>39.35</b>
3/8"	8"	89-818	KP435658	18.76	<b>17.82</b>
1/2"	9 1/2"	91-930	KP435672	26.71	<b>24.57</b>
1/2"	10"	89-819	KP435660	23.78	<b>22.59</b>

7766

## GEARWRENCH® Gimbal Ratchets with Pivoting Mechanism

- Gimbal design allows ratchet to pivot in two directions for easier access
- 72-Tooth ratcheting mechanism for 5° swing arc
- Anodized aluminum finish
- Easy to use forward / reverse lever



Drive Size	Order No.	Regular Price	SALE
1/4"	KP6581027	35.30	<b>30.71</b>
3/8"	KP6581270	35.30	<b>30.71</b>

6640

# HAND TOOLS

## Ratchets

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



Drive Size	Overall Length	Head Style	Handle Type	COO	Order No.	Regular Price	SALE
1/4"	5"	Narrow Head	Smooth	USA	KP30M52EHA	34.78	<b>22.61</b>
1/4"	7"	Flex Head	Smooth	USA	KP30M52EHFA	42.30	<b>27.50</b>
1/4"	5"	Round, Pear, Flex Head, & Open Head	Smooth	Taiwan	KP3030001	25.91	<b>16.84</b>
3/8"	10 1/4"	Narrow Head	Plain	USA	KP30B52EHLA	55.00	<b>35.75</b>
3/8"	9 3/4"	Narrow Pear	Smooth	USA	KP30B52EHFB	74.09	<b>48.16</b>
1/2"	10"	Narrow Head	Plain	USA	KP30S52EHA	70.12	<b>45.58</b>
1/2"	15"	Narrow Head	Smooth	USA	KP30S52EHLA	62.94	<b>40.91</b>
1/2"	9 7/8"	Narrow Pear	Finger Fit	Taiwan	KP3032011	51.48	<b>35.14</b>
1/2"	14"	Flex Head	Smooth	USA	KP30S52EHFA	94.88	<b>61.67</b>
3/4"	20"	Narrow Pear	Plain	China	KP30H51B	173.12	<b>112.53</b>

7598

## Fixed Head Micrometer Torque Wrenches

- Calibrated to +/- 4% in clockwise direction and +/- 6% counter clockwise direction at 20% to 100% of full scale
- Manufactured to meet standard industrial torque applications, general industry, heavy equipment, and maintenance



Drive Size	Torque Range Ft-Lbs	Overall Length	Model No	Order No.	Regular Price	SALE
1/4"	40-200 inch/lbs	11 13/64"	J6061C	KP4220750	219.48	<b>195.34</b>
3/8"	16-80 feet/lbs	14 23/32"	J6005C	KP4220735	220.20	<b>195.98</b>
3/8"	200-1000 inch/lbs	14 41/64"	J6065C	KP4220760	239.80	<b>213.42</b>
1/2"	30-150 feet/lbs	20 9/32"	J6015C	KP4220745	263.20	<b>234.25</b>
1/2"	50-250 feet/lbs	25 55/64"	J6013C	KP4220740	281.63	<b>250.65</b>

7264

## TITAN 43 Pc. Master Star Bit Socket Set

### Set Includes:

- (12) External star sockets: 1/4, 3/8 & 1/2" drive
- (13) Star bit sockets: 1/4, 3/8 & 1/2" drive
- (12) Tamper resistant star bit sockets: 1/4, 3/8 & 1/2" drive
- (6) 1/4" Star bits
- Blow molded case



Order No.	Regular Price	SALE
KP8254137	91.26	<b>54.76</b>

While Supplies Last

25280

## Brass Hammers

- Barrel type heads
- Polished hickory handles with non-slip grip



Head Weight	Order No.	Regular Price	SALE
1/2 lbs	KY51B1	55.67	<b>33.40</b>
1 lbs	KY51B2	72.38	<b>40.09</b>
2 lbs	KY51B4	103.00	<b>58.46</b>
3 lbs	KY51B5	135.60	<b>81.36</b>
4 lbs	KY51B6	105.68	<b>63.41</b>
5 lbs	KY51B7	192.08	<b>115.25</b>

23287

## Plumb Anti-Shock Hammer

- Patent pending anti-vibration technology
- One piece solid steel construction
- Co-molded contoured handle
- High luster full polish finish



Head Weight	Claw Style	Face Type	Order No.	Regular Price	SALE
16 oz	Curved	Smooth	KZ50SS16R	50.18	<b>42.65</b>
20 oz	Curved	Smooth	KZ50SS20R	56.15	<b>47.73</b>
22 oz	Curved	Checkered	KZ50SS22RCF	55.03	<b>46.78</b>

While Supplies Last

24395

## 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 Diam.	Head Length	Overall Length	Order No.	Regular Price	SALE
1LB	1-7/16	3-5/8	11-3/4	PRO210100	26.14	<b>15.68</b>
1.5LB	1-7/8	3-5/8	12	PRO210150	30.50	<b>18.30</b>
2LB	2	4	13	PRO210200	34.86	<b>20.92</b>
2.5LB	2-1/4	4-1/4	14-1/2	PRO210250	40.41	<b>24.25</b>
3LB	2-1/2	4-5/8	15	PRO210300	29.61	<b>17.77</b>
3.5LB	2-5/8	5	15-1/2	PRO210350	31.78	<b>19.07</b>
6LB	3-5/8	6	36-1/2	PRO210600	106.04	<b>63.62</b>
10LB	4	8	36-7/8	PRO211000	141.37	<b>84.82</b>

\* 6 lbs and 10 lbs have yellow fiberglass handle

22499

## PRM PRO Brass Hammers

- Non-marring, soft brass
- Non-sparking
- Available in wood hickory or fiberglass handle
- Lifetime warranty against manufacturing defect



Head Weight	Head Diam.	Overall Length	Fiberglass			Wood		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 lbs	1"	12"	-	-	-	KY402001	39.77	<b>33.80</b>
1 1/2 lbs	1 1/4"	14"	-	-	-	KY402015	53.82	<b>45.75</b>
2 lbs	1 1/2"	14"	KY401002	73.41	<b>62.40</b>	KY402002	55.38	<b>47.07</b>
3 lbs	1 5/8"	14"	KY401003	90.20	<b>76.67</b>	KY402003	67.20	<b>57.12</b>
4 lbs	1 3/4"	14"	KY401004	110.23	<b>93.70</b>	KY402004	84.91	<b>72.17</b>
5 lbs	1 7/8"	14"	KY401005	122.57	<b>104.18</b>	KY402005	97.80	<b>83.13</b>
8 lbs	2 3/8"	36"	KY401008	189.08	<b>160.72</b>	KY402008	171.73	<b>145.97</b>
10 lbs	2 1/2"	36"	KY401010	226.82	<b>192.80</b>	-	-	-
12 lbs	2 1/2"	36"	-	-	-	KY402010	201.21	<b>171.03</b>

6941

## GENERAL Cordless Precision Engraver

- 20,000 RPM motor
- Engraves metal, glass, ceramic and plastic
- 3/32" Diamond tip bit included
- 2 AAA batteries included



Order No.	Regular Price	SALE
NE50505	21.63	<b>16.22</b>

6651

## **CRESCENT** **H.K. PORTER** Strap Cutters

- Shear-cut blades give clean smooth easy cuts
- Workhead has black oxide, clean resistant finish
- Cushion grip handles



Length	Flat Cut	Round Cut	Order No.	Regular Price	SALE
9"	3/4" x .035	Up to 14 Gauge	KR550990T	247.32	<b>210.22</b>
12"	1 1/4" x .050	-	KR551290G	232.87	<b>197.94</b>
24"	2" x .050	-	KR552690GP	533.28	<b>453.29</b>

6697

## **IRWIN** **WISE-GRIP** 11" Long Reach Diagonal Plier

- Superior long reach design for work in confined areas
- Induction hardened cutting edge stays sharper longer
- 90° Diagonal head, 1 1/8 jaw width
- Drop forged steel construction
- Meets or exceeds ANSI specifications
- Lifetime guarantee



Order No.	Regular Price	SALE
KX501773389	26.84	<b>17.45</b>

6754

## **WILSON** 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



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	68.33	<b>64.91</b>
9"	1-1/4"	1-19/32"	5/8"	Yes	PL Dip Glow in Dark	D20009NEGLW	KP6011025	68.23	<b>64.82</b>
9 1/2"	1-1/4"	1-19/32"	5/8"	Yes	Journey-man Blk/Blue	J2000-9NE	KP6011060	68.66	<b>65.23</b>

28921

## **LANG** Heavy Duty Snap Ring Pliers

- Spring ratchet locking mechanism securely holds against snap ring tension
- Thumb release allows for smooth, controlled tension release
- Cushion grip for comfort
- External ring size: 3-1/2 - 6-1/2", 89mm - 165mm
- Internal ring size: 3-1/16 - 6-1/4", 78mm - 158mm
- Includes .120" diameter straight tip



Style	Overall Length	Order No.	Regular Price	SALE
Internal Ring	16 1/2"	KL401485	91.34	<b>68.51</b>
External Ring	16 1/2"	KL401486	91.34	<b>68.51</b>

8045

## **CRESCENT** **WISS** 8" Bent Trimmer Industrial Shears

- Hot drop-forged nickel plated blades
- Cutting Length: 3-3/4"
- OAL 8.25"
- Cut type - shear cut
- Handle color - black



Order No.	Regular Price	SALE
LA50428	47.05	<b>39.99</b>

8045

## **OLFA** Safety Carton Cutter

- A uniquely designed safety cutter
- Blade automatically self retracts when not in use
- Right or left hand use
- World famous genuine OLFA® blade is honed for maximum cutter performance



Order No.	Regular Price	SALE
FS6040062	16.32	<b>9.79</b>

24223

## **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	9.32	<b>6.06</b>
18"	LC717794	10.77	<b>7.00</b>
20"	LC715032	11.60	<b>7.54</b>
24"	LC717795	13.37	<b>8.69</b>

6947

## **WILSON** Needle Nose Pliers

- Induction hardened cutting edges
- Diamond serrated jaws
- Plastisol grips for added comfort



Overall Length	Jaw Length	Jaw Width	Side Cutter	Order No.	Regular Price	SALE
6 1/2"	1 7/8"	11/16"	No	KP4230190	26.19	<b>23.31</b>
5"	1 3/16"	7/16"	No	KP4230215	20.77	<b>18.49</b>
6 5/8"	1 7/8"	11/16"	Yes	KP4230217	27.71	<b>24.38</b>
7 1/2"	2 5/8"	3/4"	Yes	KP4230220	32.73	<b>29.13</b>

7304

## **WILSON** Diagonal Cutting Pliers

- Induction hardened cutting edges
- Thin narrow jaws for access in tight areas
- Plastisol grips for added comfort



Overall Length	Jaw Width	Style	Model No	Order No.	Regular Price	SALE
4 1/2"	9/16"	With Grip	J204G	KP4230280	25.02	<b>22.27</b>
4 1/2"	9/16"	With Coil Spring	J204SG	KP4230285	26.27	<b>23.38</b>
5"	19/32"	With Grip	J205G	KP4230290	24.76	<b>22.04</b>
6"	3/4"	With Grip	J206G	KP4230295	24.87	<b>22.13</b>
7"	7/8"	With Grip	J207G	KP4230300	27.62	<b>24.58</b>
4 5/8"	7/16"	With Coil Spring	J285BSG	KP4230305	24.49	<b>21.80</b>
4 5/8"	7/16"	With Grip	J285G	KP4230310	23.99	<b>21.35</b>
8"	1 7/32"	Angled Head	J210AHG	KP4230315	32.00	<b>28.48</b>

24510

## **CRESCENT** **WISS** MultiMaster Snips

- Combines long cut of a tinner's snip with the strength of compound action which multiplies the hand force by 5 times
- Cuts up to 20 gauge steel
- Non-slip serrated jaws and textured grips



Overall Length	Blade Length	Order No.	Regular Price	SALE
10 1/2"	3"	LA50M300	40.96	<b>34.82</b>

8059

## Contender 7ga. Aramid Blend Cut-Resistant Glove

- Uncoated 7ga. high ANSI A6 cut resistant Kevlar composite knit.
- Great for handling heavy metal stampings & parts work.
- Available in sizes X-Small thru X-Large.
- Also available in a PVC dotted model, #SPGRK2D, &, 4" extended cut model, #SPGRK4.

**ANSI A6**

new product

Size	Type	Color	Material	Cut Rating	Cuff Style	Cuff Material	Order No.	Regular Price	SALE
Medium	Heat Resistant Gloves	Speckled Yellow	Kevlar	ANSI A6	Form-Fit Knitwrist	Elastic	SG021175	12.75	<b>11.48</b>
Large	Heat Resistant Gloves	Speckled Yellow	Kevlar	ANSI A6	Form-Fit Knitwrist	Elastic	SG021180	12.75	<b>11.48</b>

30699

## Cutban Cut Resistant Sleeve

- Double-layer high-tenacity ANSI A2 cut rated filament-yarn both durable & comfortable.
- Available in 12", 14", 18" & 22" long.
- Also available With-Thumbhole & XL width.

**ANSI A2**

new product

Size	Color	Material	Cut Rating	Type	Length	Order No.	Regular Price	SALE
Universal	Black	Nylon	ANSI A2	Cut & Puncture Resistant Sleeve	18"	SG023005	6.06	<b>5.45</b>

30700

## Dexterity Foam Nitrile Coated 13ga. Kevlar Blend Cut Resistant Glove

- Economical blend of Kevlar and other durable fibers.
- Foam nitrile offers great dry, wet, and oil grip.
- Available in sizes 2X-Small thru 2X-Large.

**ANSI A3**

new product

Size	Color	Material	Abrasion Rating	Cut Rating	Coating	Cuff Material	Type	Order No.	Regular Price	SALE
Medium	Yellow/Black	Kevlar	3	ANSI A3	Foam Nitrile	Elastic Knit	Cut Resistant	SG021205	7.73	<b>6.96</b>
Large	Yellow/Black	Kevlar	3	ANSI A3	Foam Nitrile	Elastic Knit	Cut Resistant	SG021210	7.73	<b>6.96</b>
X-Large	Yellow/Black	Kevlar	3	ANSI A3	Foam Nitrile	Elastic Knit	Cut Resistant	SG021215	7.73	<b>6.96</b>

30701

## Emerald CX Latex Coated 13ga. Kevlar-Steel Cut Resistant Glove

**ANSI A5**

new product

Size	Color	Material	Abrasion Rating	Cut Rating	Type	Coating	Cuff Material	Order No.	Regular Price	SALE
Medium	Speckled Yellow/Black/Gray	Kevlar/Steel	3	ANSI A5	Cut Resistant	Latex	Elastic Knit	SG021355	10.95	<b>9.86</b>
Large	Speckled Yellow/Black/Gray	Kevlar/Steel	3	ANSI A5	Cut Resistant	Latex	Elastic Knit	SG021360	10.95	<b>9.86</b>
X-Large	Speckled Yellow/Black/Gray	Kevlar/Steel	3	ANSI A5	Cut Resistant	Latex	Elastic Knit	SG021365	10.95	<b>9.86</b>

30702

## Dexterity Polyurethane Coated 13ga. Kevlar Blend Cut

- Superior cut resistance with light weight construction.
- Non-marring coating with great grip, dexterity and touch sensitivity.
- Available in sizes 2X-Small thru 3X-Large

**ANSI A4**

new product

Size	Color	Material	Abrasion Rating	Cut Rating	Type	Coating	Cuff Material	Order No.	Regular Price	SALE
Medium	Yellow/Gray	Kevlar	4	ANSI A4	Cut Resistant	Polyurethane	Elastic Knit	SG021250	10.30	<b>9.27</b>
Large	Yellow/Gray	Kevlar	4	ANSI A4	Cut Resistant	Polyurethane	Elastic Knit	SG021255	10.30	<b>9.27</b>
X-Large	Yellow/Gray	Kevlar	4	ANSI A4	Cut Resistant	Polyurethane	Elastic Knit	SG021260	10.30	<b>9.27</b>

30703

## Emerald CX Foam Nitrile Coated 10ga. Steel-Filament Fibers Cut

- Heavy-duty ANSI A6 cut resistant 10ga. Stainless-Steel base composite filament knit shell.
- Foam nitrile has excellent dry, wet, & oily parts grip.
- Good dexterity & abrasion resistance from the specially formulated for heavy metal stamping.
- High ANSI Level 5 puncture rating.
- Treated with Ultra-Fresh anti-microbial treatment to enhance healthy long-life performance.
- Available in sizes 2X-Small thru 2X-Large.

**ANSI A6**

new product

Size	Color	Material	Type	Abrasion Rating	Cut Rating	Coating	Cuff Material	Order No.	Regular Price	SALE
Medium	Black	Composite Steel/Nitrile	Cut Resistant	4	ANSI A6	Foam Nitrile	Elastic Knit	SG021410	19.70	<b>17.73</b>
Large	Black	Composite Steel/Nitrile	Cut Resistant	4	ANSI A6	Foam Nitrile	Elastic Knit	SG021415	19.70	<b>17.73</b>
X-Large	Black	Composite Steel/Nitrile	Cut Resistant	4	ANSI A6	Foam Nitrile	Elastic Knit	SG021420	19.70	<b>17.73</b>

30704

## PRM<sup>PRO</sup> Class 2 Hi-Vis Safety Vests

- Class 2
- Reflective tape
- Zipper front closure
- SV80 radio straps both shoulders, 2 pockets with velcro closure and one chest pocket



Size	Yellow/Silver, Zipper				Yellow/Orange/Silver, Zipper		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	
Medium	KB38SV8030	9.16	<b>6.87</b>	KB38SV8100	12.96	<b>9.72</b>	
Large	KB38SV8035	9.16	<b>6.87</b>	KB38SV8105	12.96	<b>9.72</b>	
X-Large	KB38SV8040	9.16	<b>6.87</b>	KB38SV8110	12.96	<b>9.72</b>	
2X-Large	KB38SV8045	9.16	<b>6.87</b>	KB38SV8115	12.96	<b>9.72</b>	
3X-Large	KB38SV8050	9.16	<b>6.87</b>	KB38SV8120	12.96	<b>9.72</b>	

2932

## PRM<sup>PRO</sup> Hardwearing Workers

- Heavy-duty side split leather palm
- 2-1/2" Rubberized safety cuff, wing thumb, gunn pattern
- Canvas back with leather knuckle strap



Size	Order No.	Regular Price	SALE
Large	KB38100L	7.48	<b>5.61</b>
Medium	KB38100M	7.48	<b>5.61</b>
X-Large	KB38100XL	7.48	<b>5.61</b>

30706



**bolle SAFETY 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	16.34	<b>13.89</b>
2.0x	Black & Red	Clear	BO1540188	16.34	<b>13.89</b>
2.5x	Black & Red	Clear	BO1540189	16.34	<b>13.89</b>
3.0x	Black & Red	Clear	BO1540190	16.34	<b>13.89</b>

2500

**bolle SAFETY RUSH+**

- Upper protection
- Non-slip adjustable bridge
- PLATINUM® anti-scratch/anti-fog coating
- Co-injected ultra-flexible temples
- Bi-colored temples



BO1540244

Lens Color	Frame Color	For Use With	Order No.	Regular Price	SALE
Smoke	Black & Grey	-	BO1540208	15.74	<b>13.38</b>
Brown	Black & Grey	Indoor/Outdoor	BO1540209	16.50	<b>14.03</b>
Twilight	Black & Grey	-	BO1540225	15.74	<b>13.38</b>
Clear	Yellow & Black	-	BO1540243	15.74	<b>13.38</b>
Smoke	Yellow & Black	-	BO1540244	15.74	<b>13.38</b>
Brown	Yellow & Black	Indoor/Outdoor	BO1540245	16.50	<b>14.03</b>
Clear	Blue & Green	-	BO1540256	15.74	<b>13.38</b>
Smoke	Blue & Green	-	BO1540257	15.74	<b>13.38</b>
Clear	Black & Phosphorus Green	-	BO1540292	17.24	<b>14.65</b>
Brown	Grey	Indoor/Outdoor	BO1540294	16.50	<b>14.03</b>
Clear	Black & Red	-	BO1541080	15.74	<b>13.38</b>

2506

**bolle SAFETY PILOT**

- Excellent field of vision
- Very flexible PP/TPR frame
- Adjustable strap
- Fits over prescription glasses
- PLATINUM® anti-scratch & anti-fog coating



BO1540274

Lens Color	Frame Color	For Use With	Order No.	Regular Price	SALE
Clear	Black & Grey	-	BO1540274	25.78	<b>21.91</b>
Brown	Black & Grey	Indoor/Outdoor	BO1540275	25.78	<b>21.91</b>

2502

**MCR SAFETY 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



KB85SR122AF

Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Fog & Scratch Resistant	Clear	KB85SR140AF	8.27	<b>5.38</b>
Gray	Anti-Fog & Scratch Resistant	White	KB85SR122AF	8.94	<b>5.81</b>
Gray	Polarized Scratch Resistant	Black	KB85SR112Z	33.35	<b>21.68</b>
Amber	Scratch Resistant	Black	KB85SR114	8.27	<b>5.38</b>
Blue Mirror	Scratch Resistant	Clear	KB85SR148B	10.49	<b>6.82</b>
Clear	Scratch Resistant	Black	KB85SR110	7.60	<b>4.94</b>
Clear	Scratch Resistant	White	KB85SR120	7.60	<b>4.94</b>
Clear	Scratch Resistant	Red	KB85SR130	7.60	<b>4.94</b>
Fire Mirror	Scratch Resistant	Red	KB85SR13R	10.49	<b>6.82</b>
Gray	Scratch Resistant	Black	KB85SR112	8.27	<b>5.38</b>

2544

**MCR SAFETY Safety Glasses**

Exceeds ANSI Z87.1-2003 High Impact Requirements

**Bear Kat**

- Non-slip temple sleeves
- Single wrap-around lens design with integral side shields



**Dallas™**

- Strong, lightweight polycarbonate lens Durmass
- Full length non-slip temple sleeves
- Bayonet temples reduce pressure on mastoid bone
- Unique nosebridge comfortably fit a wide variety of users
- Blocks 99.9% of ultraviolet radiation

KB85DL110AF

DL1				
Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black	KB85DL110AF	6.54	<b>4.25</b>
Gray	Black	KB85DL112AF	7.21	<b>4.69</b>
Gray	Nuclear Orange	KB85DL212AF	7.73	<b>5.02</b>

23022

**Honeywell SAFETY Protégé®**

- Expandable, floating unilens design with wraparound brow and cushioned temples
- Has soft, flexible molded rubber nosepiece



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Fog	Metallic Black	LF50S4200X	8.28	<b>6.62</b>

2695

**HYMATEX PMXTREME® LED**

- Rubber temple tips keep eyewear secure for the active worker
- Ventilated, straight-back flexible temples provide cool, pressure-free fit
- Super bright led bulb lets you see in dark places
- Built in rubber nose piece provides all day comfort
- Scratch resistant polycarbonate lenses provide maximum vision protection



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black	KB54SB6310SPLED	22.74	<b>17.06</b>

2989

**MCR SAFETY BK1®**

- Non-slip temple sleeves
- Single wrap-around lens design with integral side shields



KB85BK010

Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Uncoated	Clear	KB85BK010	1.99	<b>1.29</b>
Clear	Scratch Resistant	Clear	KB85BK110	2.14	<b>1.39</b>
Clear	Anti-Fog & Scratch Resistant	Clear	KB85BK110AF	2.99	<b>1.94</b>
Gray	Scratch Resistant	Gray	KB85BK112	2.14	<b>1.39</b>
Light Blue	Scratch Resistant	Light Blue	KB85BK113	2.66	<b>1.73</b>
Mirrored	Scratch Resistant	Clear	KB85BK119	3.19	<b>2.07</b>

2529

## HexArmor Helix® 2085

- Knit: 13-gauge HPPE and fiberglass blend shell offering 360° degree cut protection
- Coating: Flexible polyurethane palm coating provides superior grip and abrasion resistance
- Knit wrist helps prevent dirt and debris from entering the glove
- Silicone-free

**ANSI A4**



Size	Cut Rating	Order No.	Regular Price	SALE
Small	ANSI A4	HX0110660	9.64	<b>7.71</b>
Medium	ANSI A4	HX0110655	9.64	<b>7.71</b>
Large	ANSI A4	HX0110650	9.64	<b>7.71</b>
2X-Large	ANSI A4	HX0110675	9.64	<b>7.71</b>

30761

## 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



12476

Color	Order No.	Regular Price	SALE
Lime	LF6512476	8.62	<b>6.47</b>
Stars & Stripes	LF6512477	8.62	<b>6.47</b>
Camo	LF6512478	8.62	<b>6.47</b>
Red Western	LF6512479	8.62	<b>6.47</b>
Navy Western	LF6512480	8.62	<b>6.47</b>
Blue	LF6512481	8.62	<b>6.47</b>
Flames	LF6512485	8.62	<b>6.47</b>

2605

## Aerial Apron with Magnet

- Sewn-in magnet design won't catch on gloves
- Includes ten hand tool pockets, two pouches, hammer loop and two drill bit holders
- High-viz orange for easy visibility and safety
- Water-resistant vinyl protects against the elements
- Two pouches reinforced with heavy duty rivets



Manufacturer No.	Number of Pockets	Length	Width	Features	Order No.	Regular Price	SALE
51829M	18	23"	24"	Sewn-in magnet design won't catch on gloves	KP6013095	216.94	<b>206.09</b>

28980

## 2-Pocket Waist Apron

- Heavy duty water resistant #10 canvas material
- Triple-stitched bindings and waist ties



Order No.	Regular Price	SALE
KP4292655	24.06	<b>21.41</b>

2964

## MCR SAFETY 4500 Split Cow Welders Glove

- Select shoulder
- Gunn pattern
- Double reinforced palm & thumb
- Welded in high stress areas
- Full stock lining, in-sewn at all fingertips
- Size large (generous)
- Turned leather hem
- One piece leather back
- Sewn with KEVLAR®



Size	Order No.	Regular Price	SALE
Large	KB514500	12.62	<b>9.47</b>

30762

## Wrist, Elbow, and Knee Supports

### ProFlex® 300 Round Cap Knee Pads

- Rounded cap allows for swiveling and pivoting
- 840D nylon fabric
- Wicked™ treated
- 1/2" EVA padding
- Woven elastic straps
- Velcro or buckle closure



LF65300B

### ProFlex® 500 Elbow Support

- Durable construction for tough environments
- Provides wide base of support
- Effective relief from pain and discomfort



LF654000LL

### ProFlex® 4000 Wrist Support

- Fully-adjustable for an exact fit
- Patented open-center stay™ reduces pressure on the median nerve
- Anti microbial interior fabric
- Sold individually; specify left or right



LF65500L

Knee Pads			
Size	Order No.	Regular Price	SALE
One Size	LF65300B	30.20	<b>22.65</b>
One Size	LF65300V	28.64	<b>21.48</b>

Wrist Support				
Size	Hand	Order No.	Regular Price	SALE
Large	Left	LF654000LL	16.54	<b>12.41</b>
Medium	Left	LF654000LM	16.54	<b>12.41</b>
Large	Right	LF654000RL	16.54	<b>12.41</b>
Medium	Right	LF654000RM	16.54	<b>12.41</b>

Elbow Support			
Size	Order No.	Regular Price	SALE
Large	LF65500L	14.14	<b>10.61</b>
Medium	LF65500M	14.14	<b>10.61</b>
X-Large	LF65500XL	14.14	<b>10.61</b>

23185

## Pyramex Cortez Safety Glasses

- General purposes for indoor applications that require impact protection
- Offers protection from excessive glare
- Scratch-resistant lenses
- Provides 99% protection from harmful UV-A and UV-B rays
- Ribbed cushioned nosepiece fits a wide range of bridge sizes and protects against slippage
- Exceeds the ANSI Z87.1 high velocity impact standards



KB54SB3610S

Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black	KB54SB3610S	3.92	<b>2.94</b>
Clear	Orange	KB54SO3610S	3.92	<b>2.94</b>

24521

## Shura 306

- Enhanced grip and abrasion resistance
- Ergonomic design replicates a hand's 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	8.20	<b>7.38</b>
Medium	SG2501945	8.20	<b>7.38</b>
Large	SG2501950	8.20	<b>7.38</b>
X-Large	SG2501955	8.20	<b>7.38</b>
2X-Large	SG2501960	8.20	<b>7.38</b>

30674

**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



30763

Size	Order No.	Regular Price	SALE
Small	SG2502170	7.54	<b>6.79</b>
Medium	SG2502175	7.54	<b>6.79</b>
Large	SG2502180	7.54	<b>6.79</b>
X-Large	SG2502185	7.54	<b>6.79</b>
2X-Large	SG2502190	7.54	<b>6.79</b>

**ANSI Type R Class 2 Four Pocket Value Mesh Vest**

- Breathable polyester mesh
- 2" silver reflective tape
- Zipper closure
- 2 lower internal pockets
- 2 upper chest pockets including 4 pen pockets



29801

Size	Length	Chest Size	Color	Order No.	Regular Price	SALE
S	24"	45"	Hi-Vis Yellow	PP1039345	11.46	<b>9.17</b>
M	28"	47.2"	Hi-Vis Yellow	PP1039340	11.46	<b>9.17</b>
L	28"	49.6"	Hi-Vis Yellow	PP1039335	11.46	<b>9.17</b>
XL	28"	52"	Hi-Vis Yellow	PP1039350	11.46	<b>9.17</b>
2XL	28"	54"	Hi-Vis Yellow	PP1039315	11.46	<b>9.17</b>
3XL	28"	56.7"	Hi-Vis Yellow	PP1039320	11.46	<b>9.17</b>

**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



29378

Size	Order No.	Regular Price	SALE
Small/Medium	AC201000	8.50	<b>4.75</b>
Large/X-Large	AC209000	8.50	<b>4.75</b>

PRICE PER EACH MASK

**KN95 Respirator Mask**

- 4-Layers of protection Non-woven fabrics+
- Hot air cotton + Melt blown fabric + Non-woven fabrics
- Includes adjustable nose bridge strip
- Comfortable and breathable with ear hook design
- PTE rating >95%
- BFE rating >95%
- FFP2 PROTECTION
- Sold in minimum packs of 20 or 50



29356

Standard Pack	Order No.	Regular Price	SALE
50	KN95RESPB	4.40	<b>3.94</b>
20	KN95RESPP	4.65	<b>4.07</b>

PRICE PER EACH MASK

**Honeywell Sync Stereo Earmuff**

- Use as passive hearing protector or as stereo earmuffs
- No volume knobs or power switches to coordinate nor batteries to replace
- Ease-of-use is enhanced by maintaining volume and power control through the external device
- Can be used with MP3 players, mobile phones, and other personal listening devices
- Simply plug in device and listen



23321

Noise Reduction Rating	Order No.	Regular Price	SALE
25 dB	LF501030110	51.79	<b>44.02</b>

† While supplies last

**3M 3M™ BX™ Protective Eyewear with Readers**

- Clear choice for workers who have difficulty reading small print or who are engaged in small detail work
- BX protective reader eyewear features three magnifying diopters to choose from
- Lightweight, polycarbonate lenses with adjustable soft-tip temples, and a soft nose-bridge
- Curved lens side protection



2391

Lens Color	Frame Color	Magnification	Order No.	Regular Price	SALE
Clear	Silver	1.5x	KB3511374	21.56	<b>19.84</b>
Clear	Silver	2.0x	KB3511375	21.56	<b>19.84</b>
Clear	Silver	2.5x	KB3511376	21.56	<b>19.84</b>

**NorthFlex Red™**

- Lightweight, 15 gauge nylon glove with foam PVC coating on palm and fingertips, no coating on back of hand for added ventilation
- **Color:** red nylon and black PVC



Size	Order No.	Regular Price	SALE
Medium	KB65NF118M	4.31	<b>3.60</b>
Large	KB65NF119L	4.31	<b>3.60</b>
X-Large	KB65NF1110XL	4.31	<b>3.60</b>

30764

**Vented, Short Brim Hard Hat with HDPE Shell, 6-Point Polyester Suspension and Wheel Ratchet Adjustment**

- High-Density Polyethylene (HDPE) shell designed with five raised channels running across the top for strength, and an extended back area for extra protection
- 6-Point polyester textile suspension system offers unrivaled comfort without compromising performance
- Revolution™ Wheel Ratchet is easy to use and creates a firm comfortable fit
- Short brim for greater visibility, especially when looking up or in confined spaces
- Meets ANSI/ISEA Z89.1, Type I, Class C requirements



PP1032540



PP1032550

Color	Style	Order No.	Regular Price	SALE
White	Short Brim	PP1032530	23.66	<b>18.93</b>
Yellow	Short Brim	PP1032535	23.66	<b>18.93</b>
Blue	Short Brim	PP1032540	23.66	<b>18.93</b>
Yellow	Standard Brim	PP1032550	23.66	<b>18.93</b>
Gray	Standard Brim	PP1032555	23.66	<b>18.93</b>
Blue	Standard Brim	PP1032560	23.66	<b>18.93</b>
Orange	Standard Brim	PP1032570	24.68	<b>19.74</b>
White	Standard Brim	PP1032545	23.66	<b>18.93</b>

29840

## Disposal Medical 3-Ply Face Mask

- Comfortable and breathable, soft & skin friendly
- Plane ear hook
- Size 6.88 inch x 3.75 inch
- Includes adjustable nose bridge strip
- Bacterial filtration rate ≥ 95%
- FDA approved medical
- 50 per box, priced each



Order No.	Regular Price	SALE
MA2650000	1.00	0.72

PRICE PER EACH MASK

29357

## DEWALT 20V MAX 1/2 Gallon Wet/Dry Portable Vac Kit

- Gore™ HEPA wet/dry filter traps 99.97% of dust at 0.3 microns
- 1/2 gallon tank with heavy-duty latch
- Heavy-duty rubber hose provides durability and flexibility
- Runs off of 20V MAX DeWalt battery packs
- Dual clean-up modes allow for debris removal with either the front utility nozzle or extendable rubber hose
- Washable filter; Tap or water rinse to clean
- Large on/off switch
- DCB204 Battery
- DCB115 Charger



Horse-power	Sealed Pressure	Volt-age	Weight	Order No.	Regular Price	SALE
0.3 hp	24.59"	20 V	7.75 lbs	PD20DCV517M1	379.00	329.73

2555



## Shields

- Flexbar permits setting of Visorguard at the correct height and angle for each setup
- Flip shield up to load part and down for machining
- Special spring-loaded shaft makes shield stay put - no springback
- Wing-shaped shield protects workers at adjacent machines
- Flexbar locks rigid; has stainless aircraft grade tension cable
- Can be installed in minutes on CNC mills, conventional milling machines, drill chucks, etc.



		10"			40"			
Style	Shield Width	Shield Height	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Square	6"	4"	GG4513032	192.82	154.26	GG4513032L	295.40	236.32
Winged	16"	8"	GG4513055	203.94	163.15	GG4513050	290.46	232.37

2627

## NIGHTSTICK Intrinsically Safe Dual-Light Flashlight

- **Body:** Polymer
- **Battery:** 3-AA (not included)
- **Size:** 7"
- **Features:** flashlight/floodlight/dual-light, Flashlight: 210 L / 14 hrs, Floodlight: 130 L / 20 hrs, Dual-Light: 285 L / 10 hrs. cETLus, ATEX, IECEx rated Class I, Div 1 A-G. 2 magnets, HD pocket clip, Waterproof



Order No.	Regular Price	SALE
KE56XPP5422GMX	58.46	43.85

2462

## 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



ManufacturerNo	Type	Wattage	Color	Order No.	Regular Price	SALE
AEPJ51	Wireless	5 W	Orange, Black, Gray	KP6040000	57.68	54.80

28842

## MARKAL PRO-WASH® Removable Liquid Paint Marker

- Fast-drying paint easily removes, leaving surfaces free of mark ghosting or paint residue
- PRO-WASH W marks can be removed simply and quickly with water
- PRO-WASH D marks can be removed with detergent solutions that have a pH level of 10 or above
- HAZ03



Color	Detergent Removable			Water Removable		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Black	LH5297013	4.34	3.47	LH5297033	4.34	3.47
Blue	LH5297015	4.34	3.47	LH5297035	4.34	3.47
Green	LH5297016	4.34	3.47	LH5297036	4.34	3.47
Red	LH5297012	4.34	3.47	LH5297032	4.34	3.47
White	LH5297010	4.34	3.47	LH5297030	4.34	3.47
Yellow	LH5297011	4.34	3.47	LH5297031	4.34	3.47

8483

## 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
Black	KN0160100	35.33	26.50
Hi Vis Green	KN0160101	35.33	26.50
Orange	KN0160102	35.33	26.50

2744

## 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 environment
- UL listed



OAL (in.)	Arm Style	Mount	Order No.	Regular Price	SALE
24	Floating	Clamp	KC50LCA27CMBK	464.53	404.14
34	Floating	Clamp	KC50LCA37CMBK	464.53	404.14
25	Flexible	Clamp	KC50LFA35CMBK	276.04	240.15
17	Flexible	Desk	KC50LFA35DBBK	278.10	241.95
17	Flexible	L-Bracket	KC50LFA35LBBK	291.49	253.60
17	Flexible	Magnetic	KC50LFA35MMBK	291.49	253.60

2548

## RPB Z-Link+ & Z-Link Respirator Kits for Welding & Grinding

The RPB® Z-Link® is the most versatile respirator on the market serving the widest spectrum of industries and applications from welding and grinding, to chemical handling. With countless customizations you can wear it your way. Add, change, or remove features as you choose including five visor types, five cape types, fully adjustable head suspension with five points of adjustment, adjustable airflow, and four additional optional accessories.

- Visor lifter to easily raise and lower the welding visor with large opening.
- Z-Link + for Welding/Grinding & Z-Link for Grinding only
- For extended periods of grinding the visor is easily removed at the hinge points.
- Fixed jaw ensures secure cape attachment.
- Replaceable impact lens and removable ADF lens.
- Anti-fog and scratch resistant ANSI Z87+ visors
- Zytec® Material



Includes	ManufacturerNo	Order No.	Regular Price	SALE
Z-Link Kit - FR Face Seal & C40	16-015-11	<b>RS01Z1245</b>	962.27	<b>872.20</b>
Z-Link Kit - Face Seal & PX5	16-018-12	<b>RS011601812</b>	1569.91	<b>1412.92</b>
Z-Link+ Kit - FR Face Seal & PX5	16-078-11-FR	<b>RS01Z1310</b>	1951.73	<b>1769.06</b>
Z-Link+ Kit - FR Cape & PX5	16-078-21-FR	<b>RS01Z1315</b>	1963.29	<b>1779.53</b>

29978

## Koehler BrightStar Freakin' Beacon™ Flasher

- 5 COLORS: Red, Blue, Amber, White and Green
- Green color runs 36 hrs. on steady, 144 hrs. on flash.
- Blue color runs 48 hrs. on steady, 192 hrs. on flash.
- Red, Amber, White colors run on 65 hrs. on steady, 200 hrs. on flash.
- Uses 2 AAA batteries (not included)
- Class I, Div 1
- Optional helmet band for metal, plastic and spring clips

- Waterproof IP67
- 3M Dual Lock included
- Light visible from 1000+ feet
- Drop rated to 2 meters
- Limited Lifetime warranty
- LENGTH: 2.7" WIDTH: 2.6" HEIGHT: 1.5"



			Metal Clasp			Plastic Spring			Plastic Solid			Magnet		
LED Color	Lumens Range	Battery Size	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Amber	25/strobe	AAA	KN0171000A	47.99	<b>43.50</b>	KN0171010A	47.99	<b>43.50</b>	KN0171020A	47.99	<b>43.50</b>	KN0171030A	47.99	<b>43.50</b>
Blue	25/strobe	AAA	KN0171000B	47.99	<b>43.50</b>	KN0171010B	47.99	<b>43.50</b>	KN0171020B	47.99	<b>43.50</b>	KN0171030B	47.99	<b>43.50</b>
Green	25/strobe	AAA	KN0171000G	47.99	<b>43.50</b>	KN0171010G	47.99	<b>43.50</b>	KN0171020G	47.99	<b>43.50</b>	KN0171030G	47.99	<b>43.50</b>
Red	25/strobe	AAA	KN0171000R	47.99	<b>43.50</b>	KN0171010R	47.99	<b>43.50</b>	KN0171020R	47.99	<b>43.50</b>	KN0171030R	47.99	<b>43.50</b>
White	25/strobe	AAA	KN0171000W	47.99	<b>43.50</b>	KN0171010W	47.99	<b>43.50</b>	KN0171020W	47.99	<b>43.50</b>	KN0171030W	47.99	<b>43.50</b>

29684

## Domevex Wide View Mirrors

- 20% Brighter Than Glass
- Hardware Included
- Special 180° Wide Viewing Angle
- Less Distortion Longer Lasting
- Great For T Intersections



Indoor, Domevex				
Diameter	Includes	Order No.	Regular Price	SALE
16"	Single Z Bracket	KB2520055	90.64	<b>55.07</b>
24"	1 Telescoping Bracket	KB2520070	150.38	<b>91.25</b>
32"	1 Telescoping Bracket	KB2520075	191.22	<b>175.23</b>

Outdoor, Domevex				
Diameter	Includes	Order No.	Regular Price	SALE
16"	2 Telescoping Brackets	KB2520150	133.90	<b>75.52</b>
24"	3 Telescoping Brackets	KB2520170	220.42	<b>135.30</b>
32"	3 Telescoping Brackets	KB2520175	327.03	<b>171.49</b>

3057

While supplies last

## DAZOR Machine Arm Wide-Beam Reflector Lights

- Rugged industrial heavy duty construction
- Double arm design or flexarm
- Wide beam for better light coverage
- Power coat paint that resists cracks, scuffs and fading
- Includes 75 watt bulb but approved up to 100 watt bulb



Overall Length	Arm Style	Order No.	Regular Price	SALE
26"	Gooseneck	KC501075	309.65	<b>214.71</b>
39"	Machine	KC501100	357.41	<b>232.32</b>
28"	Machine	KC501101	337.89	<b>253.42</b>

23054

## DURACELL PROCELL Alkaline Industrial Batteries

- Reliable long-lasting power for years
- Manufactured using superior cell design to ensure high-quality cell construction.
- Each battery comes with a 'quality guarantee'
- Individually date-coded for effective inventory management.
- Procell Alkaline batteries have been designed in collaboration with manufacturers to work best in professional devices
- Operating in temperatures from -4°F to 129.2°F.
- Sold in min box carton qty only



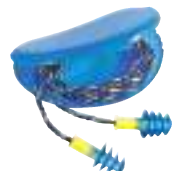
Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
AAA	24	4133353648	DU0310000	0.59	<b>0.47</b>
AA	24	4133352148	DU0310050	0.59	<b>0.47</b>
9V	12	4133352748	DU0310200	2.59	<b>2.07</b>
C	12	4133311440	DU0310070	1.30	<b>1.04</b>
D	12	4133311340	DU0310090	1.59	<b>1.27</b>

PRICED PER BATTERY

28639

## 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	1.79	<b>1.52</b>
27 dB	Green	Regular	100	LF50FUS30SHP	1.79	<b>1.52</b>

2706

## 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



**SAVE 50%**

Size	Material	Imprinting	Thread Finish	Order No.	Regular Price	SALE
32 oz	Natural HDPE	White/Red	28/400	TO1010000	19.50	<b>10.55</b>

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!™

**SAVE 35%**



Brand Name	Product Name	Order No.	Price	SALE
Scrubs	Citrus Fragrance Hand Cleaning Towels, 10 in x 12 in, 72 Wipes per Container	LM54422C072	19.31	<b>12.55</b>

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

**SAVE 35%**



Trim Length	Bristle Material	Order No.	Regular Price	SALE
7 1/2"	Plastic	LD5344305	13.55	<b>8.81</b>
10"	Palmyra	LD5344007	27.04	<b>17.58</b>
15"	Corn Fiber	LD5344009	16.86	<b>10.96</b>
18"	Corn Fiber	LD5344008	15.29	<b>9.94</b>

3218

## WEILER Coarse Sweeping

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



**SAVE 35%**

Overall Length	Trim Length	Bristle Material	Order No.	Regular Price	SALE
18"	3 1/4"	Synthetic Fill/Oil Resistant	LD5325238	13.43	<b>8.73</b>
24"	3 1/4"	Synthetic Fill/Oil Resistant	LD5325239	19.75	<b>12.84</b>
24"	3"	Tampico Fiber	LD5342135	34.34	<b>22.32</b>

3209

Handles Sold Separately

## 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



**SAVE 35%**

Overall Length	Style	Bristle Color	Trim Length	Push Broom Head			Push Broom Head with Handle		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
18"	Fine	Green	3"	LD5342163	16.60	<b>10.79</b>	LD53GR18H	16.83	<b>10.94</b>
18"	Heavy	Maroon	3"	LD5342167	16.60	<b>10.79</b>	LD53MA18H	22.09	<b>14.36</b>
18"	Medium	Yellow	3"	LD5342165	16.60	<b>10.79</b>	LD53YE18H	22.53	<b>14.64</b>
24"	Fine	Green	3"	LD5342164	23.01	<b>14.96</b>	LD53GR24H	28.94	<b>18.81</b>
24"	Heavy	Maroon	3"	LD5342168	23.01	<b>14.96</b>	LD53MA24H	28.60	<b>18.59</b>
24"	Medium	Yellow	3"	LD5342166	23.01	<b>14.96</b>	LD53YE24H	28.24	<b>18.36</b>

3215

## WEILER Floor Brush Handles

- Lacquered hardwood
- Standard threads



**SAVE 35%**

Length	Tip Material	Order No.	Regular Price	SALE
5 feet	Wood	LD5344018	4.94	<b>3.21</b>
5 feet	Steel	LD5344300	5.94	<b>3.86</b>
5 feet	Vinyl	LD5344301	5.94	<b>3.86</b>

3211



# the Right Choice for YOU!

## 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	51.07	<b>30.64</b>
Hardwound Roll	7.875"	350'	1	Natural	12 Rolls	-	RC0110105	41.51	<b>24.91</b>
Hardwound Roll	7.875"	800'	1	White	6 Rolls	-	RC0110110	54.47	<b>32.68</b>
Hardwound Roll	7.875"	800'	1	Natural	6 Rolls	-	RC0110115	46.30	<b>27.78</b>
Hardwound Roll	7.875"	700'	1	White	6 Rolls	-	RC0110120	49.99	<b>29.99</b>
Hardwound Roll	7.875"	700'	1	Natural	6 Rolls	-	RC0110125	40.12	<b>24.07</b>
Kitchen Roll	11"	8"	2	White	12 Rolls	250 RL	RC0110130	50.96	<b>30.58</b>
Kitchen Roll	11"	7.8"	2	White	30 Rolls	85 RL	RC0110135	53.35	<b>32.01</b>
Center Pull	10"	7.3"	2	White	6 Rolls	600 RL	RC0110140	46.14	<b>27.68</b>
C-Fold	10"	11.42"	1	White	10 pks	200 PK	RC0110145	39.07	<b>23.44</b>
Multi-Fold	9"	9.45"	1	White	16 pks	250 PK	RC0110150	50.35	<b>30.21</b>
Multi-Fold	9"	9.45"	1	Natural	16 pks	250 PK	RC0110155	37.29	<b>22.37</b>
Single Fold	9"	9.45"	1	White	16 pks	250 PK	RC0110160	40.27	<b>24.16</b>

28725

## 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	79.86	<b>47.92</b>
Standard	4.5"	4"	1.5"	2	145.8'	500	96	RC0110170	100.73	<b>60.44</b>
Jumbo	3.25"	8"	3.5"	2	700'	-	12	RC0110180	46.38	<b>27.83</b>
Jumbo	3.3"	8.75"	3.25"	2	1000'	-	12	RC0110175	64.94	<b>38.96</b>

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



Length	Width	Height	Order No.	Regular Price	SALE
18"	9"	11"	LC707697	35.89	<b>23.33</b>
24"	9"	12"	LC707699	39.97	<b>25.98</b>

5487

## 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	2396.33	<b>1437.80</b>

24299

Ships by common carrier F.O.B.

## PRM PRO. Standard & Combination Storage Cabinets

- These units are general purpose storage cabinets that provide a level of quality you won't find elsewhere
- Provides secure storage for office supplies, books, records, small parts, tools, etc
- Offers 5 openings with 4 adjustable shelves, a chrome handle with 2 keys and a 2-point locking system for extra security
- 200 lbs capacity per shelf



Number of Shelves	Style	Color	Width	Depth	Height	Weight	Order No.	Regular Price	SALE
7	Knocked-Down	Med Gray	36"	18"	72"	112.0 lbs	RV8260000	1528.50	<b>917.10</b>
5	Knocked-Down	Med Gray	36"	18"	72"	113.0 lbs	RV8260015	1457.64	<b>874.58</b>
5	Knocked-Down	Med Gray	36"	24"	72"	136.0 lbs	RV8260025	1661.99	<b>997.19</b>
5	Welded Set Up	Med Gray	36"	18"	72"	121.0 lbs	RV8260030	1604.77	<b>962.86</b>

5482

\* Ships by common carrier

## 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	131.33	<b>85.36</b>

5484

## 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	58.71	<b>44.03</b>

5435

## PRM PRO. Multi-Purpose Utility Cart

- Polyethylene shelves and legs
- Shelves reinforced with aluminum bars
- Scratch, dent, stain, and rust free design
- Tub shelves are 2-3/4" deep
- Integrated molded push handle
- 4" Swivel casters with stability locks (on 2 of the 4 casters)
- Capacity 400 lbs.
- Color: black
- Limited lifetime warranty
- Ships UPS at dimensional rate



Width	Length	Height	Order No.	Regular Price	SALE
32"	37 1/4"	24"	SA7010075	244.88	<b>170.01</b>

24315

## PRM PRO. Heavy Duty Stool with Back Rest

- Red frame / black seat
- Thick big vinyl cushioned 14" seat
- Stool capacity 300 lbs.
- Multiple adjustable backrest
- Powder coated paint
- Ships UPS



Height	Order No.	Regular Price	SALE
31"	RZ451000	80.34	<b>48.20</b>

29385

## PRM PRO. Heavy Duty Adjustable Stool

- Black frame / red seat
- Cushioned 14" seat red seat with square 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"	RZ451005	67.98	<b>40.79</b>

29386

## PRM PRO. Heavy Duty Drum Dolly with Non-Marring Wheels

- 8-Wheel Drum Dolly easily transports 55-gallon metal, fiber, and plastic drums without lifting
- Non-Marring wheels protects warehouse floors when transport
- All-welded steel construction provides maximum support of drum
- Eight non-marring wheels degreases sound when transporting
- Durable blue enamel finish resists corrosion



new product

Load Capacity	Order No.	Regular Price	SALE
1,000 lbs	PR05DLO55M	169.95	<b>118.97</b>

30733

## PRM PRO. 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	66.73	<b>59.39</b>

24512



## STANLEY 26-1/2" Tool Chest, Middle Chest & Roller Cabinets

- 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



KP436028

KP436034

Middle Tool Chest										
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Total Cubic Inches	ManufacturerNo	Order No.	Regular Price	SALE
2	Ball Bearing	11.5"	26"	12"	Black	1,830	STST22621BK	KP436028	143.92	122.33

Tool Chest										
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Total Cubic Inches	ManufacturerNo	Order No.	Regular Price	SALE
4	Ball Bearing	17.5"	26"	12"	Black	3,663	STST22643BK	KP436034	211.09	194.20

Ships common carrier or UPS dimensional rate

29388

## STANLEY 10 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 Diam.	Load Capacity	Total Cubic Inches	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	10,450	STST22742BK	KP436042	287.83	264.80

## 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	64.56	58.10

29405

## STANLEY 2 Pk. 2 Way Adjustable Saw Horse

- Holds 1000 lbs. capacity per pair
- 2 ways adjustable, folding saw horse
- Smooth slide mechanism for width adjustment
- Anti-slip rubber on feet and top for safety
- Innovative ergonomic mechanism for height adjustment



Height	Width	Overall Length	Model No	Order No.	Regular Price	SALE
31"	2 7/8"	28 1/8"	STST60626	KP438112	120.61	110.96

5545

## PROTO All Purpose Polyester Zipper Tool Bags

- One piece construction of water resistant polyester
- Heavy-duty zipper
- Ideal for storing pliers, wrenches, screwdrivers and other small tools and instruments



Height	Width	Model No	Order No.	Regular Price	SALE
7"	12"	J95305	KP4292240	9.51	8.46
9"	15"	J95306	KP4292245	14.85	13.22

5493

## 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



29387

Model No	Order No.	Regular Price	SALE
JFC1010	KP4270210	291.25	259.21

29436

## Little 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	131.38	91.97
Yellow	KN6593102	131.38	91.97
Blue	KN6594102	131.38	91.97

5441

## RAPIDHOLD CNC Tool Carts

- Solid side panel construction
- Durable nylon inserts
- Baked on epoxy finish
- 4" x 1-1/2" casters rated at 1,000 lbs (2 swivel & 2 locking)
- 30"L x 15"W x 35"H



Taper Size	Tool Capacity	Weight	Order No.	Regular Price	SALE
40	24	52 lbs	RX8076302	407.76	305.82
50	15	52 lbs	RX8076304	319.30	239.48
HSK 63A	24	52 lbs	RX8076306	510.24	239.48

5508

National Public SEATING Corp.

## 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



Description	Weight	Order No.	Regular Price	SALE
19-27" Adjustable Stool with Backrest	17.0 lbs	RZ406218HB	129.40	97.05
24" Stool with Hardboard Seat	9.0 lbs	RZ406224	70.19	52.64
25-33" Adjustable Stool with Backrest	21.0 lbs	RZ406224HB	133.75	100.31
30" Stool with Hardboard Seat	10.0 lbs	RZ406230	83.08	62.31
19-27" Adjustable Square Stool with Backrest	18.4 lbs	RZ406318HB	161.95	121.46
25-33" Adjustable Square Stool with Backrest	19.5 lbs	RZ406324HB	173.30	129.98
19-27" Adjustable Padded Seat with Backrest	18.0 lbs	RZ406418HB	150.48	112.86
25-33" Adjustable Padded Seat with Backrest	19.0 lbs	RZ406424HB	157.25	117.94

UPS dimensional weight shipping rates may apply

5459

## Yerli Drum Bung Nut Wrenches

- Open and close drum bungs or plugs for optimal results
- Multi-purpose features are ideal for maximum efficiency
- Unit is universal meaning it fits all types of drum plugs and bungs
- Durable wrenches will eliminate the need for extra tools



Material	Style	Order No.	Regular Price	SALE
Cast Aluminum	Non-Sparking	RV54BNWA	18.52	17.41
Cast Steel	Standard	RV54BNWIXW	35.00	32.90

†Available while supplies last

5564

## 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



KP6012785

KP6012910

new product

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	173.14	164.48
39	7"	14 1/2"	20"	Camo	55421BP14CAMO	KP6012910	171.29	162.73

28930

## 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	2100.00	2054.85
1000 lbs	73"	33"	54"	Red	1.1 Cubic Yard	BH0211CR	2163.00	2054.85

Ships FOB mfg. warehouse or DC.

29989

## JOBOX Heavy-Duty Chest

The toughest chests in the world. Designed for premium access, weather resistance, and security, the JOBOX chest yields a plethora of features including four-way skid bolsters, and a visual, three-point locking system. Need help with organization? Check out JOBOX's chest accessories including divider kits and removable trays.



- Grip-Rite™ Lifting Channel
- Site-Vault™ Security System
- Fully Welded Padlock Housing
- EZ-Loader® Skid Bolsters
- Recessed Handles
- Welded Corner Gussets Reinforce Body
- 1" Locking Arms
- Full-Length "A-Frame" Lid Bolster
- Staked and Welded Hinge
- 7-Gauge, One-Piece Bolsters Resist Damage When Dropped

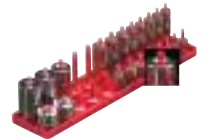
Width	Height	Depth	ManufacturerNo	Order No.	Regular Price	SALE
24"	27-3/4"	48"	1-654990	KN6110095	1138.27	1047.21
60"	27-3/4"	24"	1-655990D	KN6110096	1377.66	1267.45

Ships FOB from stocking location

22556

## Socket Trays

- Trays designed to help you work faster
- Sizes are marked on posts for instant identification
- Tough ABS plastic resists gas, oil and abuse
- Edge tangs for easy handling



Red, Imperial				
Drive	Socket Size	Order No.	Regular Price	SALE
1/2"	3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	RX801201	13.34	10.01
1/4"	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8"	RX801401	12.31	8.00
3/8"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	RX803801	12.31	8.00

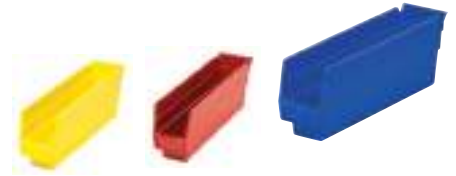
Gray, Metric				
Drive	Socket Size	Order No.	Regular Price	SALE
1/2"	10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 20 mm, 21 mm, 22 mm, 23 mm, 24 mm, 25 mm, 27 mm	RX801202	13.34	10.01
1/4"	4 mm, 4.5 mm, 5 mm, 5.5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm	RX801402	12.31	8.00
3/8"	6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 20 mm	RX803802	12.31	8.00

5344

## 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

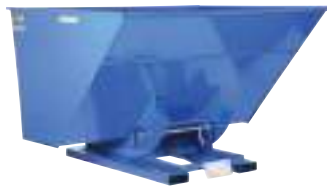
Outside Length	Outside Width	Outside Height	Inside Length	Inside Width	Inside Height	Standard Pack	Use Dividers	Yellow			Red			Blue		
								Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
11 5/8"	2 3/4"	4"	10 1/4"	1 5/8"	4"	24	-	SD5030110Y	3.63	<b>2.18</b>	SD5030110R	3.63	<b>2.18</b>	SD5030110B	3.63	<b>2.18</b>
11 5/8"	4 1/8"	4"	10 1/4"	3"	4"	24	SD50-40120	SD5030120Y	4.10	<b>2.46</b>	SD5030120R	4.10	<b>2.46</b>	SD5030120B	4.10	<b>2.46</b>
11 5/8"	6 5/8"	4"	10 1/4"	5 1/2"	4"	12	SD50-40130	SD5030130Y	6.31	<b>3.79</b>	SD5030130R	6.31	<b>3.79</b>	SD5030130B	6.31	<b>3.79</b>
17 7/8"	6 5/8"	4"	16 1/2"	5 1/2"	4"	12	SD50-40130	SD5030138Y	7.84	<b>4.70</b>	SD5030138R	7.84	<b>4.70</b>	SD5030138B	7.84	<b>4.70</b>
17 7/8"	8 3/8"	4"	16 1/2"	7 1/8"	4"	12	SD50-40150	SD5030158Y	10.72	<b>6.43</b>	SD5030158R	10.72	<b>6.43</b>	SD5030158B	10.72	<b>6.43</b>

5245

## 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	1809.66	<b>1701.08</b>
56 1/4"	52-1/2"	69"	28"	RV54D200HD	2411.10	<b>2266.43</b>
81 3/4"	50 3/4"	69"	28"	RV54D300HD	3366.02	<b>3096.74</b>

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	1485.19	<b>1366.37</b>
56-11/16"	51-13/16"	68-5/16"	28"	RV54D200LD	1877.65	<b>1727.44</b>

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	1649.00	<b>1517.08</b>
56 1/4"	52-1/2"	69"	28"	RV54D200MD	1996.12	<b>1876.35</b>

Ship FOB factory

5577

## 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	Width	Depth	Height	Weight	Order No.	Regular Price	SALE
24	33 3/4"	12"	23 7/8"	50 lbs	SB5524B	216.98	<b>162.74</b>
40	33 3/4"	12"	23 7/8"	50 lbs	SB5540B	248.19	<b>186.14</b>
42	33 3/4"	12"	42"	71 lbs	SB5542B	357.45	<b>268.09</b>
56	33 3/4"	12"	42"	75 lbs	SB5556B	385.26	<b>288.95</b>
72	33 3/4"	12"	42"	80 lbs	SB5572B	383.53	<b>287.65</b>

† Shipped via UPS

5291

## 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)

### 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

### 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

### 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



KP6012865



KP6012850



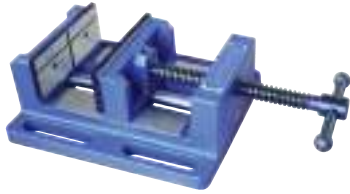
KP6012840

Number of Pockets	Width	Length	Height	Color	ManufacturerNo	Order No.	Regular Price	SALE
1	12"	15"	15"	Natural	5109SLR	KP6012865	81.80	<b>77.71</b>
1	12"	17"	17"	Natural	5104S	KP6012855	121.81	<b>115.72</b>
1	12"	17"	17"	Black	5104FR	KP6012850	142.98	<b>135.83</b>
1	12"	17"	17"	Black	5104CLRFR	KP6012845	200.01	<b>190.01</b>
1	14"	22"	22"	Off-White	5104CLR22	KP6012840	183.94	<b>174.74</b>

28934

## RAPIDHOLD Low Profile Drill Press Vises

- Designed for drilling, tapping and reaming operations
- Base has four 1/2" shoulder slots for quick, easy positioning on drill press tables
- Moveable jaw is flat and the fixed jaw has a vertical and horizontal v-groove cut
- Replaceable jaws



Jaw Width	Jaw Opening Capacity	Jaw Height	Weight	Order No.	Regular Price	SALE
3"	3"	1 1/8"	10 lbs	HT968461	38.59	<b>28.10</b>
4"	4"	1 1/2"	15 lbs	HT968462	52.76	<b>38.50</b>
6"	6"	2"	34 lbs	HT968464	120.06	<b>87.50</b>
8"	8"	2"	54 lbs	HT968465	185.68	<b>135.30</b>

F.O.B. Warren, MI

1550

## Starrett Little Giant Jack Screw Set

S190 Model

- Level work on plainer bed, drill press, mills ext.
- 1,000 Lb. capacity
- 20 Pitch screw for fine adjustment
- Complete with all accessories



Order No.	Regular Price	SALE
MV7050680	83.46	<b>70.20</b>

5071

## IRWIN QUICK-GRIP One Handed Bar Clamps/Spreaders

- Quick change jaw quickly converts from clamp to spreader and requires no tools
- Non marring pads grip firmly and protect work
- Ideal for clamping/gluing, holding work for sawing/drilling, and positioning work fastening
- Mini-Clamp is 25% smaller than Quick-Change for working in confined spaces



Max. Opening	Throat Depth	Reach	Order No.	Regular Price	SALE
6"	3 1/4"	7 1/2"-20 5/8"	KX5000546	16.19	<b>14.00</b>
6"	3 1/4"	7 1/2"-14 5/8"	KX50506QC	28.24	<b>24.30</b>
12"	3 1/4"	7 1/2"-26 5/8"	KX50512QC	31.40	<b>27.10</b>
18"	3 1/4"	7 1/2"-32 5/8"	KX50518QC	36.10	<b>31.10</b>
24"	3 1/4"	7 1/2"-44 5/8"	KX50524QC	39.25	<b>33.80</b>
36"	3 1/4"	7 1/2"-58 5/8"	KX50536QC	47.09	<b>40.60</b>

† Mini Bar Clamp

23449

## MILC-BITE ID Expansion™ Clamps

The ID Xpansion™ Clamp is the ideal way to hold multiple parts on an inside diameter for machining on your VMC or HMC. These machineable clamps are produced in 10 sizes and can hold internal diameters from .160 to 4.050.

- Low profile
- Ideal for secondary operations on lathe parts
- Easily machined to size on lathe or mill
- Excellent for palletized setups
- Allows more parts per workcube or fixture plates
- Clamp body made of mild steel for machineability
- Tighten with hex key or hydraulic pull cylinders



Model No	Overall Height	Flange Thickness	Min. Diameter	Thread Size	Holding Force	Order No.	Regular Price	SALE
31000	0.420"	0.120"	0.160"	#2-56	250 lbs	SG7031000	39.71	<b>34.90</b>
31050	0.860"	0.230"	0.280"	#8-32	950 lbs	SG7031050	39.71	<b>34.90</b>
31100	0.980"	0.230"	0.480"	1/4"-20	1,900 lbs	SG7031100	39.71	<b>34.90</b>
31150	0.980"	0.230"	0.530"	5/16"-18	2,500 lbs	SG7031150	42.28	<b>37.10</b>
31200	1.130"	0.250"	0.710"	3/8"-16	4,500 lbs	SG7031200	54.95	<b>48.30</b>
31250	1.250"	0.250"	0.900"	1/2"-13	5,900 lbs	SG7031250	67.77	<b>59.60</b>
31300	1.560"	0.310"	1.150"	5/8"-11	10,000 lbs	SG7031300	86.88	<b>76.30</b>
31350	1.560"	0.310"	1.150"	5/8"-11	10,000 lbs	SG7031350	95.33	<b>83.70</b>
31400	1.790"	0.310"	1.150"	5/8"-11	10,000 lbs	SG7031400	151.56	<b>133.10</b>
31450	1.790"	0.310"	1.150"	5/8"-11	10,000 lbs	SG7031450	185.97	<b>163.40</b>

22364

## WAL High Visibility Safety Clamps

- Drop forged
- Powder coat, scratch and rust resistant
- V-Groove anvil holds rounds securely
- Perma-Pad®, exclusive field replaceable design
- Lifetime warranty



Order No.	Regular Price	SALE
HZ41404SF	54.58	<b>50.40</b>
HZ41406SF	83.42	<b>77.00</b>
HZ41408SF	104.02	<b>96.00</b>
HZ41410SF	143.16	<b>132.10</b>
HZ41412SF	231.74	<b>213.80</b>

25547

## T&C Machinist Clamp Kit with 1" Thick Step Blocks

52 Piece Kit Contains:

- 4 Coupling Nuts
- 6 Flange Nuts
- 6 T-Slot Nuts
- 1 T-Slot Cleaner
- 24 Studs - 4 each: 3, 4, 5, 6, 7 and 8" long
- 6 Step Blocks
- 6 Serrated End Clamps
- 1 Holder



Stud Size	Order No.	Regular Price	SALE
1/2"-13	SG5020402	293.34	<b>227.90</b>

25218

## 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	124.09	108.50
1"	9"	2 7/8"	3 5/16"	3"	-	8,000 lbs	10.00 lbs	SG751001S	122.91	107.40
3/8"	3 1/2"	1 1/8"	1 3/32"	1 1/4"	-	10,000 lbs	0.50 lbs	SG75375L	28.88	25.30
3/8"	3"	1 1/8"	1 3/32"	1"	-	14,000 lbs	0.50 lbs	SG75376S	28.00	24.50
1/2"	5 3/4"	1 7/16"	1 13/32"	2 1/2"	-	12,800 lbs	1.40 lbs	SG75500L	33.33	29.20
1/2"	4 1/4"	1 3/8"	1 13/32"	1 3/4"	-	16,800 lbs	1.00 lbs	SG75501S	32.41	28.40
5/8"	6 3/4"	1 7/8"	1 1/2"	3 1/2"	-	18,000 lbs	2.50 lbs	SG75625L	44.17	38.60
5/8"	5 1/2"	1 7/8"	1 1/2"	2 3/4"	-	24,000 lbs	2.00 lbs	SG75626S	43.16	37.80
3/4"	9"	2 1/8"	2 3/8"	5"	-	24,000 lbs	4.75 lbs	SG75750L	68.32	59.70
3/4"	7"	2.00"	2 3/8"	3 1/2"	-	35,000 lbs	4.00 lbs	SG75751S	67.23	58.80

22786

## MAG-MATE Rare Earth Pot Magnets

The ultimate magnet that combines strength, and reach out, through air gaps in the smallest possible package

- Neodymium-Iron-Boron core
- Brass separator encased in a precision ground steel cup

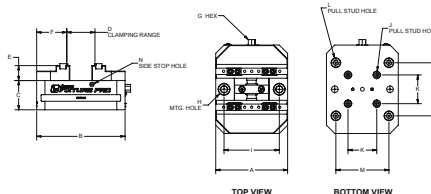


Diam.	Thread Size	Thickness	Max. Holding Capacity	Style	Order No.	Regular Price	SALE
3/8"	#8-32	1/2"	5 lbs	Two-Pole	NE7010400	14.78	11.50
1/2"	#10-24	1/2"	10 lbs	Two-Pole	NE7010405	16.10	12.60
3/4"	#10-24	1/2"	20 lbs	Two-Pole	NE7010410	21.92	17.10
1"	1/4"-20	1/2"	30 lbs	Two-Pole	NE7010415	30.64	23.80
1 1/4"	5/16"-18	1/2"	40 lbs	Two-Pole	NE7010425	42.57	33.10

23795

## Jergens 75MM Self Centering Vise

- Clamping Force: 3,500 lbs @ 50 ft lbs.
- Leadscrew features rolled trapezoidal threads for superior strength and durability
- Low friction surface treatment of critical components improves performance and reduces wear
- Multiple jaw styles make this vise system configurable for most workholding needs



Part Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (part no.)	Pull Studs Included	Weight (kg)
5CV13049-IN	75	100	40	12-85	28	39.5	10	52	QL-200800	No	3.1
5CV13050-IN	75	100	40	12-85	28	39.5	10	52	QL-200800	Yes	3.3
5CV13051-IN	75	160	40	12-145	28	39.5	10	52	QL-200800	No	4.0
5CV13052-IN	75	160	40	12-145	28	39.5	10	52	QL-200800	Yes	4.2

ManufacturerNo	Order No.	Regular Price	SALE
5CV13049-IN	SG675CV13049IN	998.00	986.10
5CV13050-IN	SG675CV13050IN	1028.00	1015.60
5CV13051-IN	SG675CV13051IN	1446.12	1333.80
5CV13052-IN	SG675CV13052IN	1478.05	1363.30

30773

## DAREX V390 Drill Sharpener

Affordable, convenient & easy to use - ideal for facilities where people of various skill levels need to be able to sharpen drills. **Specifications:**

- Motor: 15 Volt, 4.5 Amps, 1/4 HP, 60hz, 3450 RPM
- Shipping weight: 25 lbs.

**Features:**

- Sharpens most drill bits in less than 60 seconds
- Sharpens 1/8" - 3/4" drill bits; HSS, cobalt, TiN coated, split point
- Attaches to your vacuum system
- Choose point angle from 118° - 140°
- Grinding wheel sharpens drills 2,000 times before replacement
- 3 Year Warranty



Order No.	Regular Price	SALE
PM70V390	1748.94	<b>1381.70</b>

F.O.B. Ashland, OR • Not CSA Approved

23049

## PRM PRO LED Industrial Work Light

- Light output: 540 total lumens
- No heat high intensity spot light
- High output energy efficient 9W LED
- Two 8.7" arms w/shade and transformer
- IP 65 - dustproof, waterproof up to moderate jets
- AC/DC 24V



Order No.	Regular Price	SALE
KE75JWL5514L	154.50	<b>135.00</b>

2945

## ACER 6" x 18" Ball Way Manual Surface Grinder

**Standard Equipment:**

- Auto Lubrication
- Halogen Work Light
- Diamond Dresser
- Tool Box, and Complete Instruction & Parts Manual
- Electro Magnetic Chuck & Control Included

**Machine Specs:**

- Table Size: 6" x 18"
- Spindle Speed (RPM): 3450
- Maximum Grinder Wheel Size: 8" x 1/2" x 1-1/4"
- Spindle Motor: 2HP, 3PH, 220/460V
- Crossfeed: .0005, Downfeed: .0001
- Cross Transverse Travel: 6-1/8"
- Longitudinal Table Travel: 19"
- Maximum Grinding Width: 6-5/8"
- Maximum Grinding Length: 19"
- Rigid Cast Iron Base
- Weight: 1870 lbs
- 1 Year Warranty



Model No	Order No.	Regular Price	SALE
S618II	RA60S618II	9836.50	<b>9072.50</b>
S618II440	RA60S618II440	9836.50	<b>9072.50</b>

F.O.B. Orange, CA • Ships by truck

5640

## Permanent Surface Grinder Chucks

- Dual Neodymium (Rare Earth) magnetic system: Nominal holding force: 100 N/cm<sup>2</sup> - 145lbs/in<sup>2</sup>
- Min. workpiece size: 4 x 4 x 1 mm - .157 x .157 x .039 in.
- Regrinding limit: 7 mm - .275 in.
- Solid top plate with Transverse poles
- Pole Division: 1.4mm (.055 in) steel and 0.5mm (.019 in) brass
- Ideal for precise grinding of small and thin pieces, can also be used for large pieces
- Waterproof can be used with coolant or immersed in dielectric liquid (EDM applications)
- The upper top plate composed of brass and steel lamellae ensures high stability, accuracy, and efficiency of clamping
- One (1) year warranty for the magnetic system
- **Includes:** Set of Clamps, Allen Key, Rear and Side Stop Blocks & Instructions for use



Width	Length	Height	Order No.	Regular Price	SALE
5.91"	12"	2"	MP015260	1421.40	<b>1311.00</b>
6"	18"	2"	MP015290	1686.11	<b>1555.20</b>
8"	18"	2"	MP015310	2467.88	<b>2276.20</b>
7.87"	24"	2"	MP015330	2875.76	<b>2652.40</b>
11.81"	24"	2.20"	MP015360	4318.79	<b>3983.40</b>

Other sizes available - call for price and delivery

30151

## ER Collet Sets

- In Wooden Tray



Shank Type	Quantity	Diameter Range	Order No.	Regular Price	SALE
ER8	9	1 mm - 5 mm	GM70701198	296.64	<b>216.00</b>
ER11	7	1/32" - 1/4"	GM70701199	201.88	<b>147.00</b>
ER11	13	1 mm - 7 mm	GM70701200	370.80	<b>270.00</b>
ER16	10	1/32" - 3/8"	GM70701699	288.40	<b>210.00</b>
ER16	10	1 mm - 10 mm	GM70701700	276.04	<b>201.00</b>
ER20	12	1/16" - 1/2"	GM70702199	359.47	<b>261.80</b>
ER20	12	2 mm - 13 mm	GM70702200	376.98	<b>274.50</b>
ER25	15	5/32" - 5/8"	GM70702599	507.79	<b>369.80</b>
ER25	15	2 mm - 16 mm	GM70702600	482.04	<b>351.00</b>
ER32	18	7/32" - 3/4"	GM70703999	571.65	<b>416.30</b>
ER32	18	3 mm - 20 mm	GM70704000	571.65	<b>416.30</b>
ER40	13	1/8" - 1"	GM70704999	458.35	<b>333.80</b>
ER40	23	4 mm - 26 mm	GM70705000	809.58	<b>589.50</b>
ER50	17	6 mm - 34 mm	GM70706000	1139.18	<b>829.50</b>

25243

## NEWALL DP700 3 Axis Milling Digital Readout Packages

The DP700 is the latest in Newall's line of a powerful and intuitive DROs. The unit is housed in a rugged, ergonomically designed casting. The DRO features all of the essential functions for milling, boring, turning, grinding, and general machining operations. DP700 Milling Packages Include: DP700 DRO Display, Encoder Assemblies, Spherosyn, Reader Heads, Spherosyn Scales, Scale Mounting Brackets, Mounting Bracket Kit, Display Mounting Arm

### DP700 Features:

- 5 Year Warranty, 3 Year No-Fault Warranty
- IP67 rating (NEMA Type 6) Fully submersible Spherosyn scales, Withstands dust, dirt, oil and other harsh environmental conditions
- Feed Rate Display
- Bolt Hole Circle Routine
- Line Hole Routine
- Arc Contouring
- Programmable Memory/Teach
- Polar Coordinates
- Line Hole Calculator
- Tool Offsets
- Taper Calculations
- RS232 Output
- Part numbers with Q 3rd Axis scale on Quill, Part numbers with K 3rd Axis scale on the Knee



Knee					
X-Axis Stage Travel	Y-Axis Stage Travel	Z-Axis Stage Travel	Order No.	Regular Price	SALE
12"	24"	16"	MS33DP70031K16	2406.08	<b>2102.40</b>
12"	30"	16"	MS33DP70032K16	2406.08	<b>2102.40</b>
12"	36"	16"	MS33DP70033K16	2406.08	<b>2102.40</b>
16"	30"	16"	MS33DP70034K16	2406.08	<b>2102.40</b>
16"	36"	16"	MS33DP70035K16	2406.08	<b>2102.40</b>
16"	40"	16"	MS33DP70036K16	2406.08	<b>2102.40</b>
12"	38"	16"	MS33DP70027K16	2406.08	<b>2102.40</b>

Quill					
X-Axis Stage Travel	Y-Axis Stage Travel	Z-Axis Stage Travel	Order No.	Regular Price	SALE
12"	24"	6"	MS33DP70031Q06	2406.08	<b>2102.40</b>
12"	30"	6"	MS33DP70032Q06	2406.08	<b>2102.40</b>
12"	36"	6"	MS33DP70033Q06	2406.08	<b>2102.40</b>
16"	30"	6"	MS33DP70034Q06	2406.08	<b>2102.40</b>
16"	36"	6"	MS33DP70035Q06	2406.08	<b>2102.40</b>
12"	38"	6"	MS33DP70027Q06	2406.08	<b>2102.40</b>
16"	40"	6"	MS33DP70036Q06	2406.08	<b>2102.40</b>

24051

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

- 60° Plain type
- High speed steel

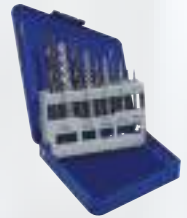


Order No.	Regular Price	SALE
AV4110000	49.20	<b>43.08</b>

22312

**IRWIN HANSON 10 Pc. Screw Extractor & Cobalt Drill Set**

- Removes bolts & screws from 3/32 thru 5/8 and 2-5mm thru 16mm
- Comes with 5 left hand drill bits
- Sturdy metal case



Number of Pieces	Set Includes	Case Type	Order No.	Regular Price	SALE
10	Right Hand Cobalt Drills	Blister Pack	EW5111117	45.50	<b>34.13</b>
10	Left Hand Cobalt Drills	Blister Pack	EW5111119	64.43	<b>48.32</b>

6715

**Tapco Taper Pipe Taps**

- High Speed Steel
- NPT/ANPT, NPTF
- Regular thread
- Morse List #2119
- OSG List #108 (NPT), List #118 (NPTF)



Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Overall Length (OAL)	Morse Cutting Tools, NPT, Bright			Morse Cutting Tools, NPTF, Bright			OSG USA, Inc., NPT, Bright			OSG USA, Inc., NPTF, Bright			OSG USA, Inc., NPTF, Black Oxide			OSG USA, Inc., NPT, Black Oxide		
					Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
1/16"	27	4	11/16"	2-1/8"	MT4036121	22.11	<b>13.27</b>	MT4036141	22.11	<b>13.27</b>	TP131310000	33.93	<b>23.75</b>	TP131312500	33.93	<b>23.75</b>	TP131312501	33.93	<b>23.75</b>	TP131310001	33.93	<b>23.75</b>
1/8"	27	4	3/4"	2-1/8"	MT4036122	22.00	<b>13.20</b>	MT4036142	22.00	<b>13.20</b>	TP131310200	33.93	<b>23.75</b>	TP131312700	33.93	<b>23.75</b>	TP131312701	33.93	<b>23.75</b>	TP131310201	33.93	<b>23.75</b>
1/8"	27	4	3/4"	2-1/8"	MT4036123	22.00	<b>13.20</b>	MT4036143	22.00	<b>13.20</b>	TP131310100	33.93	<b>23.75</b>	TP131312600	33.93	<b>23.75</b>	TP131312601	33.93	<b>23.75</b>	TP131310101	33.93	<b>23.75</b>
1/4"	18	4	1-1/16"	2-7/16"	MT4036124	24.04	<b>14.42</b>	MT4036144	24.04	<b>14.42</b>	TP131310300	37.46	<b>26.22</b>	TP131312800	37.46	<b>26.22</b>	TP131312801	37.46	<b>26.22</b>	TP131310301	37.46	<b>26.22</b>
3/8"	18	4	1-1/16"	2-9/16"	MT4036125	31.56	<b>18.94</b>	MT4036145	31.56	<b>18.94</b>	TP131310400	49.46	<b>34.62</b>	TP131312900	49.46	<b>34.62</b>	TP131312901	49.46	<b>34.62</b>	TP131310401	49.46	<b>34.62</b>
1/2"	14	4	1-3/8"	3-1/8"	MT4036126	50.24	<b>30.14</b>	MT4036146	50.24	<b>30.14</b>	TP131310500	78.61	<b>55.03</b>	TP131313000	78.61	<b>55.03</b>	TP131313001	78.61	<b>55.03</b>	TP131310501	78.61	<b>55.03</b>
3/4"	14	5	1-3/8"	3-1/4"	MT4036127	71.08	<b>42.65</b>	MT4036147	71.08	<b>42.65</b>	TP131310600	109.90	<b>76.93</b>	TP131313100	109.90	<b>76.93</b>	TP131313101	109.90	<b>76.93</b>	TP131310601	109.90	<b>76.93</b>
1"	11.5	5	1-3/4"	3-3/4"	MT4036128	107.15	<b>64.29</b>	MT4036148	107.15	<b>64.29</b>	TP131310700	167.34	<b>117.14</b>	TP131313200	167.34	<b>117.14</b>	TP131313201	167.34	<b>117.14</b>	TP131310701	167.34	<b>117.14</b>
1-1/4"	11	5	1-3/4"	4"	MT4036129	151.73	<b>91.04</b>	MT4036149	151.73	<b>91.04</b>	TP131310800	238.55	<b>166.99</b>	TP131313300	238.55	<b>166.99</b>	TP131313301	238.55	<b>166.99</b>	TP131310801	238.55	<b>166.99</b>
1-1/2"	11.5	7	1-3/4"	4-1/4"	MT4036130	208.08	<b>124.85</b>	MT4036150	208.08	<b>124.85</b>	TP131310900	319.81	<b>223.87</b>	TP131313400	319.81	<b>223.87</b>	TP131313401	319.81	<b>223.87</b>	TP131310901	319.81	<b>223.87</b>
2"	11.5	7	1-3/4"	4-1/2"	MT4036131	279.61	<b>167.77</b>	MT4036151	279.61	<b>167.77</b>	TP131311000	434.67	<b>304.27</b>	TP131313500	434.67	<b>304.27</b>	TP131313501	434.67	<b>304.27</b>	TP131311001	434.67	<b>304.27</b>

†Small shank .3125 diameter

10007

Prices Effective April 1 through June 30, 2022

Not all items exactly as pictured. Not responsible for typographical errors. We reserve the right to limit quantities. Items available while supplies last.