

PRM Spiral Flute Taps



STARTING AT
\$11²¹

PAGE 13

PRM 12" Disc Sander

****NEW****



SALE
\$165⁰⁰

PAGE 54

Starrett

EC799 Electronic Caliper



SALE
\$140⁰⁰

PAGE 44

PRM PRO

COB Wide Beam Pen Flashlight

****NEW****



SALE
\$9⁰⁰

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PRM PRO

Cargo Tool Bags with Zip Closure

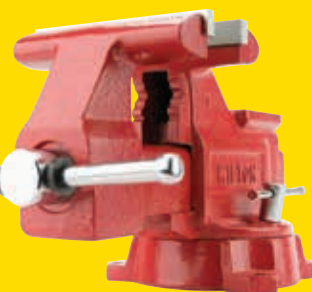
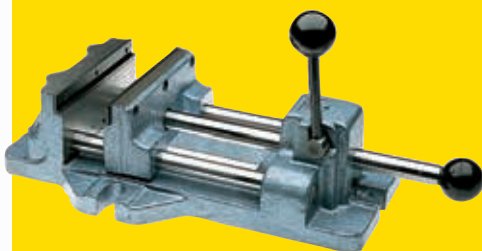
****NEW****



STARTING AT
\$21⁵⁵

PAGE 37

FEATURING
WMH TOOL GROUP™



PAGES 28 & 29

3M

Scotch-Brite™ 7447 PRO & 7448 PRO

****NEW****



STARTING AT
\$1⁵⁰

PAGE 39

PRM 6" & 8" Grinders

****NEW****



STARTING AT
\$58³⁵

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NEW! STABILIZER™ 2.0 PRODUCTIVITY KITS



SAVE UP TO \$165

GO TWICE AS FAST!

SOLID END MILLS



Niagara Cutter

PAGE 4

PRICES EFFECTIVE JANUARY 1, 2017 THRU MARCH 31, 2017



Industrial Chests & Cabinets

- Industrial use / Industrial capacity
- Full-Extension ball-bearing drawer slides support up to 125 lbs.
- Durable handles for easy lifting (chests)
- Sturdy tubular handle (roller cabinets)
- Standard casters 5" x 2"
- Internal keyed locking system
- Non-slip drawer liners included
- 7 Year Limited Warranty
- Ships by Truck



Type - Roller Cabinet

No. of Drawers	Width (in.)	Depth (in.)	Height (in.)	Load Capacity	Color	Drawer Liner	Material	Locking System	Weight	Order No.	Regular Price	SALE
11	41	18	37.5	700 lbs	Black	Yes	Steel	Keyed Internal Lock Bar	225 lbs	RX61WCA4111BK	1068.35	854.70
11	41	18	37.5	700 lbs	Red	Yes	Steel	Keyed Internal Lock Bar	225 lbs	RX61WCA4111RD	1068.35	854.70

Type - Tool Chest

No. of Drawers	Width (in.)	Depth (in.)	Height (in.)	Load Capacity	Color	Drawer Liner	Material	Lid Support	Locking System	Weight	Order No.	Regular Price	SALE
8	41	16	20	450 lbs	Black	Yes	Steel	Yes	Keyed Internal Lock Bar	146 lbs	RX61WCH418BK	675.30	540.25
8	41	16	20	450 lbs	Red	Yes	Steel	Yes	Keyed Internal Lock Bar	143 lbs	RX61WCH418RD	675.30	540.25

MH452

Mobil Mobilgrease Lubricating Grease XHP 222



NLGI Grade - 2, Thickener Type Li-Complex

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

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



121929

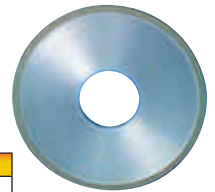
XHP22235

Size	Order No.	Regular Price	SALE
13.7 oz	LK45121929	4.75	3.65
35 lb	LK45XHP22235	169.00	130.00

FL263

6" Diamond Cut Off Wheel

- 6 x .035 x 1-1/4 Type IAIR
- 1/4" Diamond section
- 100 Grit
- 100 Concentration
- Resin bond



A022

Order No.	Regular Price	SALE
MP501807829	151.20	134.70

SURF PRO® 20 Pc. Diamond Mounted Point Set

- Diamond particles are bonded to metal shank
- Use for shaping, grinding, and deburring
- Use on carbide, steel, ceramic and wood surfaces
- Assorted shapes and sizes
- All mounted points are 1/8" shank x 1-3/4" OAL



Order No.	Regular Price	SALE
MN52BMS20	18.60	16.60

A204

Heavy Duty Jobber Drill Set

High Speed Steel • 135° Split Point

- 29 Piece set, includes 1/16" - 1/2" x 64ths, metal index
- Unique surface treatment for improved wear resistance in hard ferrous alloys
- Precision Twist List #HX10



Order No.	Regular Price	SALE
PT2791010	156.75	125.40

CT814

PRO CUT™ 118° Standard Point Jobber Drill Sets High Speed Steel

- 29 Pc sets
- 1/16" - 1/2" by 64ths
- Complete with metal index



Finish	Order No.	Regular Price	SALE
Bright Finish	AP50E29P	34.45	25.84
Surface Treated	AP50E29	34.45	25.84
TiN Coated	AP50C162TI	50.00	37.50

CT875

Flat Head Wheel Arbors

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



Fits Arbor Hole (in.)	Wheel Width Up to (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/2	1/2	1/4	2-5/16	MM54FHL30	5.25	3.90
1/2	3/8	1/4	1-7/8	MM54FHL25X	3.30	2.45
1/2	7/8	1/4	2-5/16	MM54FHL30X	3.55	2.70
1/4	3/4	3/16	1-3/4	MM54FHL8X	5.75	4.25
3/8	3/8	1/4	1-5/8	MM54FHL10X	3.15	2.35
5/8	3/8	1/4	1-7/8	MM54FHL50X	6.55	4.90

A543

SURF PRO Air Cooled Quick Change Holder Pads

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



Dia. (in.)	Mount	Order No.	Regular Price	SALE
1-1/2	TR	SP24QCH15TR14SC	9.95	7.90
1-1/2	TS	SP24QCH15TS14SC	9.95	7.90
2	TR	SP24QCH20TR14SC	10.40	8.30
2	TS	SP24QCH20TS14SC	10.40	8.30
3	TS	SP24QCH30TS14SC	11.65	9.25
3	TR	SP24QCH30TR14SC	11.65	9.25
4	TR	SP24QCH40TR14SC	18.50	14.70
4	TS	SP24QCH40TS14SC	18.50	14.70
3/8-24	-	SP24A3824F1420M	16.85	13.40
5/8-11	-	SP24A5811F1420M	18.05	14.35

A644

Mill & Knife Hand Files - Smooth & Bastard Styles

Knife Files

- For use on slots, keyways and acute angles. Knife files are double cut on the "knife edge" with a safe (uncut) back and taper toward the point in width and thickness
- Bastard File, a coarse file designed for fast removal of stock material



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.
- Smooth File, a fine file designed for making an almost smooth surface



Shape - Knife						
Size (in.)	Bastard			Smooth		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4	FR5006711	15.25	12.20	FR5006773	16.65	13.30
6	FR5006804	17.45	13.95	FR5006867	21.50	17.20
8	FR5006898	20.75	16.60	FR5006961	23.35	18.70
10	FR5006992	24.55	19.65	FR5007054	29.90	23.90

Shape - Mill						
Size (in.)	Bastard			Smooth		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4	FR5008243	5.75	4.60	FR5008306	8.75	7.00
6	FR5008354	5.75	4.60	FR5008416	8.85	7.10
8	FR5008497	6.90	5.50	FR5008560	10.45	8.35
10	FR5008642	8.85	7.10	FR5008704	12.75	10.20
12	FR5008737	14.45	11.55	FR5008799	17.30	13.85
14	FR5008832	19.55	15.65	FR5008894	23.95	19.15

HT859

WEILER Wire Brushes for 4-1/2" Angle Grinder

Why use these brushes instead of a more common 4" stringer bead wheel or 2-3/4" cup brush? Because their larger sizes result in much greater cleaning action, and their heavier-duty construction dramatically increases aggression and prolongs life. This means that they do more work done under lighter applied loads... the brush will last longer, you will last longer, and your grinder will last longer!

- Dually™ Weld Cleaning Brush - Features a dual-hex nut design to simplify periodic flipping of the wheel for maximum efficiency in demanding inter-pass weld cleaning applications
- Roughneck Stringer Bead Wheels - Features a high knot count & short tril length to produce the fastest, most effective cleaning action & longest product life on your 4-1/2" grinder
- Knot Wire & Crimped Wire Cup Brushes - Features the highest quality construction and materials for maximum performance & long life when cleaning large surfaces



13156



79801



13233

Type - Cup Wheel														
Dia. (in.)	Wire Size	Face Width	Arbor Hole	Max RPM	Standard Pack	Crimped Stainless			Knot Stainless			Knot Steel Wire		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-1/2	.020	3/16	7/8	12,500	5	MK5113188	42.85	36.00	MK5113163	48.10	40.45	MK5113156	24.35	20.50

Type - Dually Weld Cleaning Brush								
Dia. (in.)	Wire Size	Face Width	Arbor Hole	Max RPM	Standard Pack	Steel Wire		
						Order No.	Regular Price	SALE
4-1/2	.020	3/16	7/8	12,500	5	MK5179801	20.80	16.55

Type - Roughneck Stringer Bead Weld Cleaning Brush											
Dia. (in.)	Wire Size	Face Width	Arbor Hole	Max RPM	Standard Pack	Carbon Steel			Stainless Steel		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-1/2	.020	3/16	5/8-11	12,500	5	MK5113232	19.55	16.45	MK5113238	33.45	28.15
4-1/2	.020	3/16	7/8	12,500	5	MK5113234	19.55	16.45	MK5113249	33.45	26.55
4-1/2	.020	3/16	M14 x 2.0	12,500	5	MK5113233	19.55	16.45	MK5113239	33.45	26.55

A575

NIAGARA CUTTER™ SOLID END MILLING

NEW! STABILIZER™ 2.0 KITS

HIGH PERFORMANCE MACHINING

The new Stabilizer 2.0 family of end mills raises the bar in high performance milling by incorporating a patented continuously varying asymmetrical geometry which helps create a smooth chatter free milling condition. This configuration, along with a specially engineered flute shape, allow for feed rates twice that of the current Stabilizer. The **STR430.2** series of end mills are specifically designed for machining steels, alloy steels, copper alloys and cast iron. The **STR440.2 HT** series of end mills are specifically designed for machining ISO-S materials such as stainless steel, steels over 42 Rc, titanium and Inconel.

- Eccentric primary relief
- Asymmetrical flute geometry
- US patent #6,991,409
- ALTiN Coating



DOUBLE YOUR FEED RATE.
DOUBLE YOUR PRODUCTIVITY.



STR430.2 KITS - SLOTTING PARAMETERS AT 1 X D

KIT EDP	(6 Pc) Kit Description	End Mills	EDP	Flute Dia	Shank Dia	Length of cut	Overall Length	Steel (SMG P3-P4)		Cast Iron (SMG K1-K4)		PRICE
								RPM	Feed (IPM)	RPM	Feed (IPM)	
N00072	6 PACK STR430.2 STAB ALTiN	STR430.2-0.125-D2-R010.0-Z4	N09778	1/8	1/8	1/4	1-1/2	12,224	35	10,696	30	\$115
		STR430.2-0.188-D2-R010.0-Z4	N09786	3/16	3/16	3/8	2	8,127	35	7,110	30	
		STR430.2-0.250-D2-R020.0-Z4	N09794	1/4	1/4	1/2	2-1/2	6,112	35	5,348	30	
		STR430.2-0.313-D2-R020.0-Z4	N09802	5/16	5/16	5/8	2-1/2	4,881	35	4,270	30	
		STR430.2-0.375-D2-R020.3-Z4	N09807	3/8	3/8	3/4	2-1/2	4,075	35	3,565	30	
		STR430.2-0.500-D2-R030.3-Z4	N09845	1/2	1/2	1	3	3,056	35	2,674	30	

STR440.2 HT KITS - SLOTTING PARAMETERS AT 1 X D

KIT EDP	(6 Pc) Kit Description	End Mills	EDP	Flute Dia	Shank Dia	Length of cut	Overall Length	Titanium (SMG S12)		Stainless Steel (SMG M1-M2)		PRICE
								RPM	Feed (IPM)	RPM	Feed (IPM)	
N00074	6 PACK STR440.2 STAB ALTiN	STR440.2-0.125-D2-R010.0-Z4	N09883	1/8	1/8	1/4	1-1/2	5,654	14	11,307	34	\$115
		STR440.2-0.188-D2-R010.0-Z4	N09889	3/16	3/16	3/8	2	3,759	14	7,515	34	
		STR440.2-0.250-D2-R020.0-Z4	N09897	1/4	1/4	1/2	2-1/2	2,827	14	5,654	34	
		STR440.2-0.313-D2-R020.0-Z4	N09905	5/16	5/16	5/8	2-1/2	2,257	14	4,515	34	
		STR440.2-0.375-D2-R020.3-Z4	N09912	3/8	3/8	3/4	2-1/2	1,885	14	3,769	34	
		STR440.2-0.500-D2-R030.3-Z4	N09948	1/2	1/2	1	3	1,413	14	2,827	34	

All kits include six end mills in stated sizes.

FOR MORE DETAILED PRODUCT INFORMATION, VISIT NIAGARACUTTER.COM



SQUARE SHOULDER MILLING

TURBO 10 KITS

For light duty, high precision applications, the Seco Turbo 10 is the answer. The free cutting, low power consumption design makes Turbo 10 ideal for smaller machines as well as long overhangs and challenging machine setups that may lack stability.

FEATURED GRADES

MP2500 – MP2500 inserts for Turbo 10 with the M09 edge preparation is the ideal combination for steel milling.

F40M – PVD coated grade ideal for machining both steel and stainless steel. The M06 edge preparation is the first choice for stainless steel machining.



**FEATURING ORIGINAL
DURATOMIC® TECHNOLOGY!**



APPLICATION DATA

SMG	MP2500			SMG	F40M		
	Feed fz (IPT)				Feed fz (IPT)		
	100%	30%	10%		100%	30%	10%
	Cutting speed V _c (SFPM)				Cutting speed V _c (SFPM)		
	0.0047	0.0049	0.0077		0.0027	0.003	0.0046
P1	1100	1425	1675	M1	630	840	1000
P2	1025	1375	1625	M2	520	700	820
P3	910	1200	1425	M3	430	560	660
P4	800	1050	1250	M4	335	440	510
P5	770	1025	1200	M5	280	370	425
P6	880	1150	1350	—	—	—	—
P7	830	1100	1275	—	—	—	—
P8	770	1000	1200	—	—	—	—
P11	810	1075	1250	—	—	—	—

% = Cutter dia

TURBO 10 R217.69-10 KITS - MAX PROFILING D.O.C. 0.354"

	EDP	Kit Description	Kit Contents					PRICE
			Cutter	Dia.	Bore	Shank	Insert (10 pcs.)	
P	15429	TURBO 10 .625P KIT	R217.69-00.625-3-10-2A	0.625	-	0.625	XOMX10T308TR-M09 MP2500	\$380
	15430	TURBO 10 .750P KIT	R217.69-00.750-3-10-2A	0.750	-	0.750	XOMX10T308TR-M09 MP2500	\$395
	15431	TURBO 10 1.00P KIT	R217.69-01.00-3-10-4A	1.000	-	1.000	XOMX10T308TR-M09 MP2500	\$435
M	15434	TURBO 10 .625M KIT	R217.69-00.625-3-10-2A	0.625	-	0.625	XOEX10T308R-M06 F40M	\$405
	15436	TURBO 10 .750M KIT	R217.69-00.750-3-10-2A	0.750	-	0.750	XOEX10T308R-M06 F40M	\$425
	15437	TURBO 10 1.00M KIT	R217.69-01.00-3-10-4A	1.000	-	1.000	XOEX10T308R-M06 F40M	\$460

Kit includes one cutter body, ten inserts and a wrench.



FOR MORE DETAILED PRODUCT INFORMATION, VISIT SECOTOOLS.COM

SECO

PRICES EFFECTIVE JANUARY 1, 2017 THRU MARCH 31, 2017

INDEXABLE CARBIDE

MAXX-EDGE Steel Shank Boring Bars

SCLC Style

- Positive 80°
- Uses CCMT style inserts

SDUC Style

- Positive 55°
- Uses DCMT style inserts



Type - SCLC											
Shank Dia. (in.)	Min. Bore (in.)	OAL (in.)	Use Insert	Left				Right			
				Style	Order No.	Regular Price	SALE	Style	Order No.	Regular Price	SALE
5/16	.3350	4	CCMT 21.5	S05HSCLCL2	ME1210125	45.05	33.79	S05HSCLCR2	ME1210100	45.05	33.79
3/8	.4130	4.5	CCMT 21.5	S06JSCLCL2	ME1210130	47.70	35.78	S06JSCLCR2	ME1210105	47.70	35.78
1/2	.5400	5	CCMT 21.5	S08KSCLCL2	ME1210135	51.95	38.96	S08KSCLCR2	ME1210110	51.95	38.96
5/8	.6650	6	CCMT 21.5	S10MSCLCL2	ME1210140	65.75	49.31	S10MSCLCR2	ME1210115	65.75	49.31
3/4	1.0000	10	CCMT 32.5	S12SSCLCL3	ME1210145	76.35	57.26	S12SSCLCR3	ME1210120	76.35	57.26

Type - SDUC											
Shank Dia. (in.)	Min. Bore (in.)	OAL (in.)	Use Insert	Left				Right			
				Style	Order No.	Regular Price	SALE	Style	Order No.	Regular Price	SALE
3/8	.4130	4.5	DCMT 21.5	S06JSDUCL2	ME1210165	57.25	42.94	S06JSDUCR2	ME1210150	57.25	42.94
1/2	.5400	5	DCMT 21.5	S08KSDUCL2	ME1210170	65.75	49.31	S08KSDUCR2	ME1210151	65.75	49.31
5/8	.6650	6	DCMT 21.5	S10MSDUCL2	ME1210175	81.65	61.24	S10MSDUCR2	ME1210155	81.65	61.24
3/4	1.0000	10	DCMT 32.5	S12SSDUCL3	ME1210180	92.25	69.19	S12SSDUCR3	ME1210160	92.25	69.19

C238

PRO-CUT Popular Turning Inserts

Grade Information:

PC2 Best with non-ferrous metals

PC5 General purpose steel cutting applications

PC300 TiN-TiC-TiN for cutting at higher speeds and with greater lubricity



Insert Style	Grade	Order No.	Regular Price	SALE
CNMG 431	PC300	FF5030150	6.55	5.24
CNMG 432	PC300	FF5030160	6.95	5.56
DNMG 431	PC300	FF5030420	11.05	8.84
DNMG 432	PC300	FF5030430	11.05	8.84
RNG 32	PC2	FF5010530	4.60	3.68
RNMA 43	PC2	FF5010580	5.05	4.04
RPG 42	PC300	FF5033510	10.15	8.12
RPG 42	PC5	FF5053510	8.80	7.04
SPG 422	PC5	FF5051510	6.35	5.08
SPG 422	PC300	FF5031510	7.65	6.12
SPG 634	PC2	FF5011640	11.60	9.28
SPU 422	PC300	FF5031750	6.80	5.44
TNMA 438	PC5	FF5052250	6.00	4.80
TNMG 321	PC300	FF5032320	4.15	3.32
TNMG 322	PC300	FF5032330	4.40	3.52
TNMG 322	PC5	FF5052330	3.55	2.84
TNMG 431	PC300	FF5032390	7.20	5.76
TNMG 432	PC300	FF5032400	7.10	5.68
TPG 321	PC5	FF5052850	5.75	4.60
TPG 321	PC300	FF5032850	6.80	5.44
TPG 322	PC2	FF5012860	5.75	4.60
TPG 322	PC5	FF5052860	5.75	4.60
TPG 322	PC300	FF5032860	6.80	5.44
TPG 323	PC5	FF5052870	5.75	4.60
TPG 323	PC300	FF5032870	6.80	5.44
TPG 324	PC5	FF5052880	5.75	4.60
TPG 324	PC300	FF5032880	6.80	5.44
TPG 431	PC300	FF5032930	10.30	8.24
TPG 432	PC5	FF5052940	7.80	6.24
TPG 432	PC300	FF5032940	10.15	8.12
TPG 434	PC300	FF5032960	10.30	8.24
TPU 321	PC300	FF5033310	4.65	3.72
TPU 322	PC5	FF5053320	4.20	3.36
TPU 322	PC300	FF5033320	4.95	3.96
TPU 432	PC5	FF5053360	6.45	5.16
TPU 432	PC300	FF5033360	8.05	6.44

C241

MAXX-EDGE Inserts for Boring Bars

- Grade ME 425 is a PVD coated insert great for steel, stainless steel, cast iron and hi-temp alloys



Style	Grade	Order No.	Regular Price	SALE
CCMT 21.51	ME425	ME1010000	9.70	7.28
CCMT 21.52	ME425	ME1010005	9.70	7.28
CCMT 32.51	ME425	ME1010010	10.05	7.54
CCMT 32.52	ME425	ME1010015	10.05	7.54
CPMT 2152	ME425	ME1010065	9.00	6.75
CPMT 3251	ME425	ME1010070	9.55	7.16
CPMT 3252	ME425	ME1010075	9.55	7.16
TCMT 2151	ME425	ME1010115	8.15	6.11
TCMT 2152	ME425	ME1010120	8.15	6.11
TCMT 3251	ME425	ME1010125	9.45	7.09
TCMT 3252	ME425	ME1010130	8.95	6.71

C330

DORIAN 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-4 Torx key
- (1) Storage case



Order No.	Regular Price	SALE
FL4585064	281.90	225.52

C372



POW•R•FEED® M904 Solid Carbide Variable Helix End Mills

- 4 Flute
- Square end
- High speed machining



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Regular Price	SALE
1/8	1/8	1/2	1-1/2	Round Shank	DD4063010	18.85	14.14
5/32	3/16	9/16	2	Round Shank	DD4063011	28.45	21.34
3/16	3/16	5/8	2	Round Shank	DD4063012	26.55	19.91
7/32	1/4	5/8	2-1/2	Round Shank	DD4063013	34.75	26.06
1/4	1/4	3/8	2	Round Shank	DD4063003	29.50	22.13
1/4	1/4	3/4	2-1/2	Round Shank	DD4063014	31.90	23.93
5/16	5/16	13/16	2-1/2	Round Shank	DD4063016	44.25	33.19
3/8	3/8	1/2	2	Round Shank	DD4063004	48.55	36.41
3/8	3/8	7/8	2-1/2	Round Shank	DD4063018	51.65	38.74
3/8	3/8	7/8	2-1/2	Weldon Shank	DD4063043	53.95	40.46
7/16	7/16	1	2-3/4	Round Shank	DD4063020	69.10	51.83
7/16	7/16	1	2-3/4	Weldon Shank	DD4063044	71.45	53.59
1/2	1/2	5/8	2-1/2	Round Shank	DD4063005	79.35	59.51
1/2	1/2	1	3	Round Shank	DD4063022	83.35	62.51
1/2	1/2	1	3	Weldon Shank	DD4063045	85.75	64.31
1/2	1/2	1-1/4	3	Round Shank	DD4063100	83.90	62.93
1/2	1/2	1-1/4	3	Weldon Shank	DD4063101	86.30	64.73
5/8	5/8	1-1/4	3-1/2	Weldon Shank	DD4063046	164.00	123.00
5/8	5/8	3/4	3	Round Shank	DD4063006	150.00	112.50
5/8	5/8	1-1/4	3-1/2	Round Shank	DD4063024	161.15	120.86
3/4	3/4	7/8	3	Round Shank	DD4063007	219.45	164.59
3/4	3/4	1-1/2	4	Round Shank	DD4063025	234.45	175.84
3/4	3/4	1-1/2	4	Weldon Shank	DD4063047	238.20	178.65
1	1	1-1/2	4	Round Shank	DD4063026	367.50	275.63
1	1	1-1/2	4	Weldon Shank	DD4063048	371.90	278.93

CT322



enDURO® 5 Flute Square End Single End Mills Series M525

Advanced tooling for aerospace and medical parts manufacturing.
Hard core for hard work

- Amazing corner strength
- Fine micrograin tungsten carbide substrate
- Optimized rake and relief angles
- Variable indexing
- Five flutes, 40° helix
- Premium heat-resistant coating



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/4	1/4	3/8	2	DD4065025	25.35	19.01
1/4	1/4	3/4	2-1/2	DD4065049	33.80	25.35
1/4	1/4	1-1/8	3	DD4065055	41.30	30.98
3/8	3/8	1/2	2	DD4065085	49.90	37.43
3/8	3/8	1	2-1/2	DD4065133	56.80	42.60
3/8	3/8	1-1/4	3	DD4065141	75.85	56.89
3/8	3/8	2	4	DD4065173	94.05	70.54
1/2	1/2	5/8	2-1/2	DD4065213	85.80	64.35
1/2	1/2	1-1/4	3	DD4065267	95.80	71.85
1/2	1/2	2-1/8	4	DD4065294	127.00	95.25
1/2	1/2	2-5/8	5	DD4065303	169.90	127.43
1/2	1/2	3-1/4	6	DD4065312	184.25	138.19
5/8	5/8	1-5/8	3-1/2	DD4065361	194.00	145.50
5/8	5/8	2-5/8	5	DD4065391	268.90	201.68
5/8	5/8	3-1/4	6	DD4065401	295.20	221.40
3/4	3/4	1-5/8	4	DD4065461	277.05	207.79
3/4	3/4	2-3/8	5	DD4065471	318.40	238.80
3/4	3/4	3-1/4	6	DD4065491	382.55	286.91
3/4	3/4	4-1/8	7	DD4065501	448.00	336.00

CT346



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 AlCrN 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



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	.015			.030			.060		
				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	26.50	19.88	-	-	-	-	-	-
3/16	3/16	9/16	2	DD4167511	35.55	26.66	DD4167512	35.55	26.66	-	-	-
1/4	1/4	3/4	2-1/2	DD4167525	40.10	30.08	DD4167526	40.10	30.08	DD4167527	42.30	31.73
1/4	1/4	1-1/4	3	DD4167531	47.30	35.48	DD4167532	47.30	35.48	-	-	-
1/4	1/4	1-3/4	4	DD4167547	56.30	42.23	DD4167548	56.30	42.23	-	-	-
5/16	5/16	13/16	2-1/2	DD4167099	51.80	38.85	DD4167100	51.80	38.85	DD4167101	53.90	40.43
3/8	3/8	1-1/4	3	DD4167133	75.95	56.96	DD4167134	75.95	56.96	DD4167135	76.50	57.38
3/8	3/8	2	4	DD4167165	93.65	70.24	DD4167166	93.65	70.24	DD4167167	94.20	70.65
1/2	1/2	5/8	2-1/2	-	-	-	DD4167206	92.00	69.00	DD4167207	92.00	69.00
1/2	1/2	1	3	DD4167214	93.25	69.94	DD4167215	93.25	69.94	DD4167216	93.25	69.94
1/2	1/2	1-1/4	3	DD4167223	96.75	72.56	DD4167224	96.75	72.56	DD4167225	96.75	72.56
1/2	1/2	1-5/8	4	-	-	-	DD4167233	119.80	89.85	DD4167234	119.80	89.85
5/8	5/8	3/4	3	-	-	-	DD4167278	173.30	129.98	DD4167279	173.30	129.98
5/8	5/8	1-3/8	3-1/2	-	-	-	DD4167288	179.60	134.70	DD4167289	179.60	134.70
5/8	5/8	2-1/8	4	-	-	-	DD4167298	206.15	154.61	DD4167299	206.15	154.61
3/4	3/4	1-5/8	4	-	-	-	DD4167358	255.75	191.81	DD4167359	255.75	191.81
3/4	3/4	2-3/8	5	-	-	-	DD4167368	292.20	219.15	DD4167369	292.20	219.15
1	1	1-3/4	4	-	-	-	DD4167408	404.55	303.41	DD4167409	404.55	303.41
1-1/4	1-1/4	2	4-1/2	-	-	-	DD4167463	992.60	744.45	DD4167464	992.60	744.45

CT689

CUTTING TOOLS

Solid Carbide General Purpose, 4 Flute Single End, End Mills

- Standard micro grain carbide
- 30° Helix angle



Length - Extra Long						
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/8	1/8	1	3	TP37484125011	24.25	18.19
3/16	3/16	1-1/8	3	TP37484187511	29.80	22.35
1/4	1/4	1-1/2	4	TP37484250011	41.00	30.75
5/8	5/8	3	6	TP37484625011	231.20	173.40
3/4	3/4	3	6	TP37484750011	285.00	213.75

Length - Long						
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/8	1/8	3/4	2-1/4	TP37464125011	21.65	16.24
3/16	3/16	3/4	2-1/4	TP37464187511	26.25	19.69
1/2	1/2	2	4	TP37464500011	96.10	72.08
5/8	5/8	2-1/4	5	TP37464625011	170.75	128.06
3/4	3/4	2-1/4	5	TP37464750011	218.80	164.10

Length - Square									
				Bright			TiAlN		
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/16	1/8	3/16	1-1/2	TP37404062500	10.40	7.80	TP37404062511	13.10	9.83
3/32	1/8	5/16	1-1/2	TP37404093800	10.40	7.80	TP37404093811	13.10	9.83
1/8	1/8	1/2	1-1/2	TP37404125000	10.40	7.80	TP37404125011	13.10	9.83
1/8	1/8	3/4	2-1/4	TP37464125000	18.20	13.65	-	-	-
1/8	1/8	1	3	TP37484125000	20.85	15.64	-	-	-
3/16	3/16	5/8	2	TP37404187500	14.95	11.21	TP37404187511	18.40	13.80
3/16	3/16	3/4	2-1/4	TP37464187500	20.90	15.68	-	-	-
3/16	3/16	1-1/8	3	TP37484187500	24.50	18.38	-	-	-
1/4	1/4	3/4	2-1/2	TP37404250000	18.90	14.18	TP37404250011	26.00	19.50
1/4	1/4	1-1/8	3	TP37464250000	26.80	20.10	-	-	-
1/4	1/4	1-1/2	4	TP37484250000	32.70	24.53	-	-	-
5/16	5/16	13/16	2-1/2	TP37404312500	21.95	16.46	TP37404312511	32.55	24.41
5/16	5/16	1-1/8	3	TP37464312500	32.90	24.68	-	-	-
5/16	5/16	1-5/8	4	TP37484312500	41.55	31.16	-	-	-
3/8	3/8	1	2-1/2	TP37404375000	29.60	22.20	TP37404375011	40.15	30.11
3/8	3/8	1-1/8	3	TP37464375000	41.80	31.35	-	-	-
3/8	3/8	1-3/4	4	TP37484375000	53.75	40.31	-	-	-
7/16	7/16	1	2-3/4	TP37404437500	40.60	30.45	TP37404437511	53.60	40.20
7/16	7/16	2	4	TP37464437500	66.95	50.21	-	-	-
7/16	7/16	3	6	TP37484437500	95.25	71.44	-	-	-
1/2	1/2	1	3	TP37404500000	50.20	37.95	TP37404500011	63.60	47.70
1/2	1/2	2	4	TP37464500000	78.65	58.69	-	-	-
1/2	1/2	3	6	TP37484500000	124.95	93.71	-	-	-
5/8	5/8	1-1/4	3-1/2	TP37404625000	83.90	62.93	TP37404625011	103.40	77.55
5/8	5/8	2-1/4	5	TP37464625000	146.40	109.80	-	-	-
5/8	5/8	3	6	TP37484625000	202.25	151.69	-	-	-
3/4	3/4	1-1/2	4	TP37404750000	122.95	92.21	TP37404750011	145.95	109.46
3/4	3/4	2-1/4	5	TP37464750000	190.55	142.91	-	-	-
3/4	3/4	3	6	TP37484750000	251.55	188.66	-	-	-

CT533

Solid Carbide 5 Flute 45° Helix End Mills

- Five flute design provides excellent cutting performance at faster feed rates
- Smooth cutting action in tough to machine materials with excellent chip ejection
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/-.002"



AITIN									
Uncoated									
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8	1/8	1/4	1-1/2	DD8157698	13.90	9.73	DD8117698	11.40	7.98
1/8	1/8	1/2	1-1/2	DD8155942	14.05	9.84	DD8115942	11.55	8.09
5/32	3/16	5/16	2	DD8157699	19.35	13.55	DD8117699	16.85	11.80
5/32	3/16	9/16	2	DD8155943	19.55	13.69	DD8115943	17.05	11.94
3/16	3/16	5/16	2	DD8157700	19.15	13.41	DD8117700	16.65	11.66
3/16	3/16	9/16	2	DD8155944	19.45	13.62	DD8115944	16.90	11.83
7/32	1/4	3/8	2	DD8157701	24.70	17.29	DD8117701	20.75	14.53
7/32	1/4	3/4	2-1/2	DD8155945	27.85	19.50	DD8115945	22.20	15.54
1/4	1/4	3/8	2	DD8157702	23.35	16.35	DD8117702	19.35	13.55
1/4	1/4	3/4	2-1/2	DD8155946	27.55	19.29	DD8115946	21.95	15.37
1/4	1/4	1-1/2	4	DD8155947	42.35	29.65	DD8115947	36.70	25.69
5/16	5/16	7/16	2	DD8157703	31.00	21.70	DD8117703	25.55	17.89
5/16	5/16	13/16	2-1/2	DD8155948	34.85	24.40	DD8115948	28.20	19.74
3/8	3/8	1/2	2	DD8157704	36.85	25.80	DD8117704	31.10	21.77
3/8	3/8	1	2-1/2	DD8155949	42.20	29.54	DD8115949	35.50	24.85
3/8	3/8	1-3/4	4	DD8155950	66.85	46.80	DD8115950	58.60	41.02

AITIN									
Uncoated									
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
13/32	7/16	9/16	2-1/2	DD8150739	63.30	44.31	DD8110739	54.20	37.94
7/16	7/16	9/16	2-1/2	DD8157705	49.75	34.83	DD8117705	41.50	29.05
7/16	7/16	1	2-3/4	DD8155951	57.15	40.01	DD8115951	49.60	34.72
1/2	1/2	5/8	2-1/2	DD8157706	57.20	40.04	DD8117706	49.70	34.79
1/2	1/2	1-1/4	3	DD8155952	66.80	46.76	DD8115952	59.25	41.48
1/2	1/2	3	6	DD8155953	141.50	99.05	DD8115953	125.15	87.61
9/16	9/16	1-1/2	3-1/2	DD8155954	105.55	73.89	DD8115954	93.85	65.70
5/8	5/8	3/4	3	DD8157707	112.35	78.65	DD8117707	99.65	69.76
5/8	5/8	1-5/8	3-1/2	DD8155955	117.90	82.53	DD8115955	106.20	74.34
5/8	5/8	3	6	DD8151203	190.30	133.21	DD8111203	169.25	118.48
3/4	3/4	1	3	DD8157708	152.30	106.61	DD8117708	137.55	96.29
3/4	3/4	1-5/8	4	DD8155956	178.55	124.99	DD8115956	159.50	111.65
3/4	3/4	3	6	DD8155957	301.80	211.26	DD8115957	268.10	187.67
1	1	1-1/4	3	DD8157709	243.25	170.28	DD8117709	222.30	155.61
1	1	1-1/2	4	DD8155958	298.20	208.74	DD8115958	274.10	191.87
1	1	3	6	DD8155959	486.80	340.76	DD8115959	448.95	314.27

All coatings available.

CT597

4 Flute Solid Carbide End Mills Center Cutting

- Used for general purpose milling in most materials of medium hardness such as steel, brass, iron and non-ferrous materials
- Uncoated or AITIN coated for improved tool life and increased production output
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/-.002"



AITIN									
Uncoated									
Size (in.)	Shank Dia. (in.)	LOC	OAL (in.)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/16	1/8	1/4	1-1/2	DD8256898	10.65	7.46	DD504004S	7.60	5.32
3/32	1/8	3/8	1-1/2	DD8256900	10.65	7.46	DD504006S	7.20	5.04
1/8	1/8	1/2	1-1/2	DD8256631	9.80	6.86	DD504008S	6.40	4.48
5/32	3/16	9/16	2	DD8257877	14.95	10.47	DD504010S	10.65	7.46

AITIN									
Uncoated									
Size (in.)	Shank Dia. (in.)	LOC	OAL (in.)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16	3/16	9/16	2	DD8256632	14.25	9.98	DD504012S	10.40	7.28
7/32	1/4	5/8	2-1/2	DD8257880	20.75	14.53	DD504014S	14.30	10.01
1/4	1/4	3/4	2-1/2	DD8256633	19.00	13.30	DD504016S	12.90	9.03
9/32	5/16	3/4	2-1/2	DD8257883	28.55	19.99	DD504018S	20.40	14.28
5/16	5/16	13/16	2-1/2	DD8256634	27.15	19.01	DD504020S	19.10	13.37
3/8	3/8	1	2-1/2	DD8256635	31.20	21.84	DD504024S	22.35	15.65
7/16	7/16	1	2-3/4	DD8256637	45.05	31.54	DD504028S	34.00	23.80
1/2	1/2	1	3	DD8256639	52.90	37.03	DD504032S	39.85	27.90
5/8	5/8	1-1/4	3-1/2	DD8256641	93.35	65.35	DD504040S	71.85	50.30
3/4	3/4	1-1/2	4	DD8256642	144.45	101.12	DD504048S	116.00	81.20
1	1	1-1/2	4	DD8256644	218.75	153.13	DD504100S	178.75	125.13

CT592

CUTTING TOOLS



Fine Pitch Solid Carbide Roughers



Progressive Unequal Index Geometry

- Good for difficult to machine and abrasive materials
- Weldon flats
- Increase feed in speed rates with AlTiN coating



Size	Shank	LOC	OAL	Flutes	AlTiN			Uncoated		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4	1/4	1/2	2	4	DC1520019	44.20	30.94	DC1510019	37.85	26.50
1/4	1/4	3/4	2-1/2	4	DC1520020	44.55	31.19	DC1510020	38.20	26.74
5/16	5/16	1/2	2	4	DC1520021	58.70	41.09	DC1510021	46.95	32.87
5/16	5/16	13/16	2-1/2	4	DC1520022	61.25	42.88	DC1510022	49.50	34.65
3/8	3/8	5/8	2	4	DC1520023	59.55	41.69	DC1510023	47.80	33.46
3/8	3/8	1	2-1/2	4	DC1520024	64.05	44.84	DC1510024	52.30	36.61
1/2	1/2	5/8	2-1/2	4	DC1520026	91.35	63.95	DC1510026	76.65	53.66
1/2	1/2	1-1/4	3	4	DC1520027	110.75	77.53	DC1510027	96.05	67.24
1/2	1/2	2	4	4	DC1520028	133.20	93.24	DC1510028	118.50	82.95
5/8	5/8	3/4	3	4	DC1520029	163.55	114.49	DC1510029	139.85	97.90
3/4	3/4	1-3/4	4	4	DC1520032	259.80	181.86	DC1510032	231.55	162.09
3/4	3/4	3	6	4	DC1520036	425.75	298.03	DC1510036	402.05	281.44
1	1	2	5	5	DC1520033	503.60	352.52	DC1510033	462.90	324.03
1	1	2-5/8	5	5	DC1520035	531.15	371.81	DC1510035	490.45	343.32

CT721



3 Flute, Coarse Pitch Roughers



Progressive Unequal Index Geometry

Materials:

- Difficult to machine & abrasive materials
- Diameter tolerance: + .000 / - .003"

Applications:

- Rough milling
- Profiling



Open ended slots

ZrN coating offers excellent wear resistance & increased lubricity

Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Uncoated			ZrN		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16	3/16	3/4	2	DC1510048	33.75	23.63	DC1520048	37.95	26.57
1/4	1/4	3/4	2-1/2	DC1510049	39.40	27.58	DC1520049	45.80	32.06
5/16	5/16	7/8	2-1/2	DC1510050	45.75	32.03	DC1520050	57.45	40.22
3/8	3/8	1	2-1/2	DC1510051	52.95	37.07	DC1520051	64.70	45.29
1/2	1/2	1-1/4	3	DC1510052	77.35	54.15	DC1520052	92.05	64.44
5/8	5/8	1-1/4	3-1/2	DC1510053	151.85	106.30	DC1520053	175.55	122.89
3/4	3/4	1-5/8	4	DC1510054	214.75	150.33	DC1520054	243.00	170.10

CT722



TuffCut® XR HP 5 Flute ALtima® Coated

End Mills

Center Cutting • Straight Shank • 38° Helix



- Designed for extreme productivity
- Gain 20% or more in productivity over 4 flute styles
- Smooth cutting action to eliminate vibration
- Corner radius styles available
- Standard and long lengths



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/8	1/8	1/8	1-1/2	DD1517800	18.50	14.80
1/8	1/8	3/8	1-1/2	DD1617801	19.65	15.72
5/32	3/16	3/16	2	DD1617802	26.15	20.92
3/16	3/16	3/16	2	DD1517804	25.60	20.48
3/16	3/16	7/16	2	DD1517805	27.20	21.76
1/4	1/4	3/8	2	DD1517808	31.25	25.00
1/4	1/4	5/8	2-1/2	DD1617809	33.25	26.60
9/32	5/16	5/8	2-1/2	DD1517810	45.55	36.44
5/16	5/16	13/16	2-1/2	DD1517812	45.55	36.44
3/8	3/8	1/2	2	DD1617814	51.45	41.16
3/8	3/8	7/8	2-1/2	DD1517815	54.80	43.84
7/16	7/16	1	2-3/4	DD1517818	70.50	56.40
1/2	1/2	5/8	2-1/2	DD1517820	84.10	67.28
1/2	1/2	1	3	DD1617821	89.60	71.68
5/8	5/8	3/4	3	DD1617823	158.95	127.16
3/4	3/4	1-1/2	4	DD1617826	248.55	198.84
1	1	1-1/2	4	DD1617828	378.55	302.84

CT813



MultiFlute Single End Mills

High Speed Steel • Center Cutting



Style - Extra-Long							
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Regular Price	SALE
1/4	3/8	1-3/4	3-9/16	4	CT57FX8	12.35	8.65
5/16	3/8	2	3-3/4	4	CT57FX10	12.25	8.58
3/8	3/8	2-1/2	4-1/4	4	CT57FX12	12.85	9.00
1/2	1/2	3	5	4	CT57FX16	16.95	11.87
5/8	5/8	4	6-1/8	4	CT57FX20	24.10	16.87
3/4	3/4	4	6-1/4	4	CT57FX24	27.85	19.50
7/8	7/8	5	7-1/4	4	CT57FX28	28.10	19.67

Style - Long							
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Regular Price	SALE
5/16	3/8	1-3/8	3-1/8	4	CT56FL10	9.30	6.51
3/8	3/8	1-1/2	3-1/4	4	CT56FL12	9.30	6.51
1/2	1/2	2	4	4	CT56FL16	12.80	8.96
5/8	5/8	2-1/2	4-5/8	4	CT56FL20	18.15	12.71
3/4	1/2	3	5-1/4	4	CT56FL24X	22.15	15.51
3/4	3/4	3	5-1/4	4	CT56FL24	22.15	15.51
7/8	3/4	3-1/2	5-1/2	4	CT56FL28W	27.80	19.46
7/8	7/8	3-1/2	5-3/4	4	CT56FL28	27.80	19.46
1	1	4	6-1/2	4	CT56FL32	36.70	25.69
1-1/4	3/4	4	6-1/2	6	CT56FL40W	64.90	45.43
1-1/4	1-1/4	4	6-1/2	4	CT56FL40A	64.90	45.43
2	1-1/4	4	6-1/2	6	CT56FL64B	124.00	86.80

Style - Standard							
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Regular Price	SALE
1/8	3/8	3/8	2-5/16	4	CT55F4	7.65	5.36
3/16	3/8	1/2	2-3/8	4	CT55F6	7.65	5.36
1/4	3/8	5/8	2-7/16	4	CT55F8	7.65	5.36
9/32	3/8	3/4	2-1/2	4	CT55F9	7.85	5.50
5/16	3/8	3/4	2-1/2	4	CT55F10	7.65	5.36
11/32	3/8	3/4	2-1/2	4	CT55F11	6.50	4.55
3/8	3/8	3/4	2-1/2	4	CT55F12	7.65	5.36
7/16	3/8	1	2-11/16	4	CT55F14	11.20	7.84
15/32	3/8	1	2-11/16	4	CT55F15	9.45	6.62
1/2	3/8	1	2-11/16	4	CT55F16X	8.55	5.99
1/2	1/2	1-1/4	3-1/4	4	CT55F16	11.10	7.77
9/16	1/2	1-3/8	3-3/8	4	CT55F18	13.30	9.31
5/8	5/8	1-5/8	3-3/4	4	CT55F20	16.05	11.24
11/16	1/2	1-5/8	3-5/8	4	CT55F22X	17.50	12.25
11/16	5/8	1-5/8	3-3/4	4	CT55F22	17.50	12.25
7/8	7/8	1-7/8	4-1/8	4	CT55F28	24.85	17.40
1	3/4	1-7/8	4-1/8	4	CT55F32W	27.10	18.97
1	1	2	4-1/2	4	CT55F32Y	29.15	20.41
1	1	2	4-1/2	6	CT55F32YA	24.65	17.26
1-1/8	3/4	2	4-1/4	6	CT55F36W	41.05	28.74
1-1/4	3/4	2	4-1/4	6	CT55F40W	44.15	30.91
1-1/4	1	2	4-1/2	6	CT55F40	45.85	32.10
1-1/4	1-1/4	2	4-1/2	4	CT55F40A	45.85	32.10
1-1/4	1-1/4	2	4-1/2	6	CT55F40Y	45.85	32.10
1-1/2	1-1/4	2	4-1/2	4	CT55F48A	56.20	39.34
1-5/8	1-1/4	2	4-1/2	6	CT55F52	61.40	42.98
1-7/8	3/4	2-1/2	4-1/2	6	CT55F60W	73.50	51.45
1-7/8	1-1/4	2	4-1/2	6	CT55F60	70.35	49.25
2	1-1/4	2	4-1/2	8	CT55F64	64.90	45.43

CT604

CUTTING TOOLS

MICRO 100 Solid Carbide Drill Mills 90° Included Drill Point

- Multipurpose tool for drilling, milling, spotting, chamfering and countersinking
- Made from premium micrograin carbide featuring Micro 100's exclusive treating process



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	2			4		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8	1/8	1/2	1-1/2	GE45DM125290	18.00	16.20	GE45DM125490	18.90	17.01
3/16	3/16	5/8	2	GE45DM187290	25.25	22.73	GE45DM187490	26.45	23.81
1/4	1/4	3/4	2-1/2	GE45DM250290	31.65	28.49	GE45DM250490	33.05	29.75
5/16	5/16	13/16	2-1/2	GE45DM312290	39.35	35.42	GE45DM312490	41.35	37.22
3/8	3/8	1	2-1/2	GE45DM375290	49.30	44.37	GE45DM375490	51.90	46.71
1/2	1/2	1	3	GE45DM500290	74.55	67.10	GE45DM500490	81.55	73.40
5/8	5/8	1-1/4	3-1/2	GE45DM625290	149.60	134.64	-	-	-
3/4	3/4	1-1/2	4	GE45DM750290	219.95	197.96	-	-	-

CT577

MICRO 100 Single Flute Solid Carbide Routers for Aluminum

- High speed, solid carbide routers for cutting aluminum and non-ferrous cutting applications
- Optimized rake and clearance angles produce highest material removal rates and improved surface finishes
- Innovative single flute end mill geometry avoids chip melting and chip rewelding
- Unique open flute design with polished, mirror-like flute finish

MADE IN THE USA



Cutter Dia. (in.)	Shank Dia. (in.)	OAL (in.)	Flute Length (in.)	Order No.	Regular Price	SALE
1/16	1/8	1-1/2	1/4	GE45SFA06222	30.95	27.86
1/8	1/4	2	1/4	GE45SFA12542	31.80	28.62
1/8	1/4	2	1/2	GE45SFA12544	31.80	28.62
3/16	3/16	2	1/2	GE45SFA18733	30.20	27.18
1/4	1/4	2-1/2	3/8	GE45SFA25043	31.80	28.62
1/4	1/4	2-1/2	3/4	GE45SFA25046	31.80	28.62
1/4	1/4	3	1-1/4	GE45SFA250410	35.85	32.27
3/8	3/8	3	1-1/8	GE45SFA37569	47.65	42.89
1/2	1/2	3	1	GE45SFA50088	78.95	71.06
1/2	1/2	3	1-1/2	GE45SFA500812	83.00	74.70

CT575

RAPIDKUT Solid Carbide Internal Grinding Tools

- Diamond cut pattern with end cutting
- Suitable for any ferrous materials, including heat-treated mold & die steels up to 60 Hrc
- Diameters 1/4" and smaller are solid carbide with a back-tapered neck
- Diameters 9/32" and larger are brazed onto a carbide shank



Dia. (in.)	Shank (in.)	LOC (in.)	Neck Length	OAL (in.)	Order No.	Regular Price	SALE
.030	1/8	3/32	1/8	1-1/2	CB2530030	27.70	20.78
.040	1/8	3/32	3/16	1-1/2	CB2530040	27.70	20.78
.050	1/8	1/8	1/4	1-1/2	CB2530050	27.70	20.78
1/16	1/8	1/8	3/8	1-1/2	CB2530062	26.80	20.10
5/64	1/8	5/32	3/8	1-1/2	CB2530078	26.80	20.10
3/32	1/8	5/32	3/8	1-1/2	CB2530094	26.80	20.10
7/64	1/8	3/16	1/2	1-1/2	CB2530109	26.80	20.10
1/8	1/8	3/16	1/2	1-1/2	CB2530125	24.95	18.71
9/64	3/16	7/32	5/8	2	CB2530140	38.45	28.84
5/32	3/16	7/32	5/8	2	CB2530156	38.45	28.84
11/64	3/16	1/4	5/8	2	CB2530172	38.45	28.84
3/16	3/16	1/4	5/8	2	CB2530188	35.30	26.48
13/64	1/4	9/32	3/4	2	CB2530203	46.90	35.18
7/32	1/4	9/32	3/4	2	CB2530219	46.90	35.18
15/64	1/4	5/16	3/4	2	CB2530234	46.90	35.18
1/4	1/4	5/16	3/4	2	CB2530250	43.50	32.63
9/32	1/4	11/32	-	3-1/2	CB2530281	65.35	49.01
5/16	1/4	11/32	-	3-1/2	CB2530312	74.95	56.21
11/32	1/4	3/8	-	3-1/2	CB2530344	81.95	61.46
3/8	1/4	3/8	-	3-1/2	CB2530375	86.20	64.65
1/2	3/8	3/8	-	3-1/2	CB2530500	144.55	108.41

CT842

RAPIDKUT Double Cut Carbide Burrs

- Rapid stock removal in tough applications
- Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal



Shape - Ball End						
Cutter Dia. (in.)	Burr No.	OAL (in.)	Shank Size (in.)	Order No.	Regular Price	SALE
1/8	SD42	1-1/2	1/8	FP50SD42D	8.10	5.67
3/32	SD41	1-1/2	1/8	FP50SD41D	6.40	4.48
1/4	SD1	2	1/4	FP50SD1D	12.50	8.75
3/8	SD3	2-5/16	1/4	FP50SD3D	14.30	10.01
1/2	SD5	2-7/16	1/4	FP50SD5D	20.20	14.14



Shape - Cylindrical						
Cutter Dia. (in.)	Burr No.	OAL (in.)	Shank Size (in.)	Order No.	Regular Price	SALE
1/8	SA43	1-1/2	1/8	FP50SA43D	8.10	5.67
3/32	SA42	1-1/2	1/8	FP50SA42D	8.10	5.67
1/4	SA1	2	1/4	FP50SA1D	12.90	9.03
3/8	SA3	2-3/4	1/4	FP50SA3D	18.10	12.67
1/2	SA5	3	1/4	FP50SA5D	20.85	14.60



Shape - Cylindrical End Cut						
Cutter Dia. (in.)	Burr No.	OAL (in.)	Shank Size (in.)	Order No.	Regular Price	SALE
1/4	SB1	2	1/4	FP50SB1D	11.10	7.77
3/8	SB3	2-3/4	1/4	FP50SB3D	19.60	13.72
1/2	SB5	3	1/4	FP50SB5D	22.75	15.93



Shape - Cylindrical Radius End						
Cutter Dia. (in.)	Burr No.	OAL (in.)	Shank Size (in.)	Order No.	Regular Price	SALE
1/8	SC42	1-1/2	1/8	FP50SC42D	8.10	5.67
3/32	SC41	1-1/2	1/8	FP50SC41D	8.10	5.67
1/4	SC1	2	1/4	FP50SC1D	11.50	8.05
3/8	SC3	2-3/4	1/4	FP50SC3D	15.15	10.61
1/2	SC5	3	1/4	FP50SC5D	20.85	14.60



Shape - Taper Radius End						
Cutter Dia. (in.)	Burr No.	OAL (in.)	Shank Size (in.)	Order No.	Regular Price	SALE
1/4	SL1	2	1/4	FP50SL1D	12.90	9.03
3/8	SL3	3-3/16	1/4	FP50SL3D	19.80	13.86
1/2	SL4	3-1/4	1/4	FP50SL4D	25.45	17.82

CT738

CUTTING TOOLS



Uniflute® Countersinks

High Speed Steel

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



Size (in.)	Shank Dia. (in.)	OAL (in.)	82°			90°		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4	1/4	2	BC7061056	9.10	7.28	BC7061061	9.10	7.28
3/8	1/4	2	BC7061081	10.35	8.28	BC7061086	10.35	8.28
1/2	1/4	2	BC7061106	12.60	10.08	BC7061111	12.60	10.08
5/8	1/4	2-1/4	BC7061131	16.80	13.44	BC7061136	16.80	13.44
3/4	1/2	2-3/4	BC7061156	24.55	19.64	BC7061161	24.55	19.64
1	1/2	2-3/4	BC7061181	40.90	32.72	BC7061186	40.90	32.72
1-1/4	1/2	3	BC7061206†	79.95	63.96	BC7061211†	79.95	63.96
1-1/2	3/4	3-1/2	BC7061221†	108.25	86.60	BC7061226†	108.25	86.60

†Straight shank with tang drive.

CT059



6 Flute Chatterless Countersink Sets

High Speed Steel • In Plastic Case

- 4 Pc. sets Include: 1/4, 1/2, 3/4 and 1" diameter tools
- 7 Pc. sets Include: 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 1" diameter tools



Included Angle	4			7		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
60°	BC7579003	93.30	74.64	BC7579001	135.75	108.60
82°	BC7579008	93.30	74.64	BC7579006	135.75	108.60
90°	BC7579013	93.30	74.64	BC7579011	135.75	108.60

CT778



MORSE CUTTING TOOLS Straight Shank Chucking

Reamers

High Speed Steel • Straight Flute

- Right hand cut
- 45° Chamfer for reaming of most materials



MADE IN THE USA



Size (in.)	Dec. Equiv.	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Regular Price	SALE
1/16	.0625	1/2	2-1/2	4	MT5022110	14.25	10.69
3/32	.0938	3/4	3	4	MT5022123	11.05	8.29
1/8	.1250	7/8	3-1/2	4	MT5022137	10.10	7.58
5/32	.1562	1	4	4	MT5022148	14.25	10.69
3/16	.1875	1-1/8	4-1/2	6	MT5022161	14.25	10.69
7/32	.2188	1-1/4	5	6	MT5022174	17.95	13.46
1/4	.2500	1-1/2	6	6	MT5022183	16.60	12.45
9/32	.2812	1-1/2	6	6	MT5022193	21.05	15.79
5/16	.3125	1-1/2	6	6	MT5022199	19.20	14.40
11/32	.3438	1-1/2	6	6	MT5022206	23.30	17.48
3/8	.3750	1-3/4	7	6	MT5022212	20.65	15.49
13/32	.4062	1-3/4	7	6	MT5022219	25.55	19.16
7/16	.4375	1-3/4	7	6	MT5022223	24.35	18.26
15/32	.4687	1-3/4	7	6	MT5022226	28.90	21.68
1/2	.5000	2	8	6	MT5022229	26.70	20.03
9/16	.5625	2	8	6-8	MT5022232	31.35	23.51
5/8	.6250	2-1/4	9	6-8	MT5022234	36.60	27.45
11/16	.6875	2-1/4	9	6-8	MT5022236	41.60	31.20
3/4	.7500	2-1/2	9-1/2	8	MT5022238	46.25	34.69
13/16	.8125	2-1/2	9-1/2	8	MT5022240	54.00	40.50
7/8	.8750	2-5/8	10	8	MT5022242	59.90	44.93
15/16	.9375	2-5/8	10	8-10	MT5022244	67.45	50.59
1	1.0000	2-3/4	10-1/2	8-10	MT5022246	74.45	55.84

CT644



6 Flute Chatterless Countersinks

High Speed Steel

- Designed for economical, general purpose countersinking, chamfering or deburring



Size (in.)	Shank Dia. (in.)	OAL (in.)	82°			90°		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4	1/4	2	BC7579076	9.00	7.20	BC7579081	9.00	7.20
3/8	1/4	2	BC7579126	11.10	8.88	BC7579131	11.10	8.88
1/2	3/8	2	BC7579151	13.75	11.00	BC7579156	13.75	11.00
5/8	3/8	2-1/4	BC7579176	19.80	15.84	BC7579181	19.80	15.84
3/4	1/2	2-3/4	BC7579201	27.15	21.72	BC7579206	27.15	21.72
1	1/2	2-3/4	BC7579251	41.50	33.20	BC7579256	41.50	33.20
1-1/4	1/2	3	BC7579276†	63.55	50.84	BC7579281†	63.55	50.84
1-1/2	3/4	3-1/2	BC7579301†	91.05	72.84	BC7579306†	91.05	72.84
2	3/4	3-3/4	BC7579326†	154.45	123.56	BC7579331†	154.45	123.56

CT673



Solid Carbide Single Flute Countersinks

60, 82 & 90°

- Ideal for chamfering, deburring and countersinking
- Positive rake construction provides a smooth surface finish on a wide variety of materials
- Allows for high cutting temperatures



Size (in.)	Shank Dia. (in.)	OAL (in.)	60°			82°			90°		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8	1/8	1-1/2	AV4255700	14.10	11.28	AV4255710	14.10	11.28	AV4255720	16.42	13.14
3/16	3/16	2	AV4255701	15.00	12.00	AV4255711	18.02	14.42	AV4255721	15.00	12.00
1/4	1/4	2	AV4255702	20.85	16.68	AV4255712	25.83	20.66	AV4255722	25.83	20.66
3/8	1/4	2-5/8	-	-	-	AV4255713	38.34	30.67	AV4255723	38.34	30.67
3/8	1/4	2-7/8	AV4255703	29.95	23.96	-	-	-	-	-	-
1/2	1/4	2-5/8	-	-	-	AV4255714	44.00	35.20	AV4255724	44.00	35.20
1/2	1/4	2-7/8	AV4255704	44.00	35.20	-	-	-	-	-	-
5/8	3/8	2-3/4	-	-	-	AV4255715	79.20	63.36	AV4255725	65.00	52.00
5/8	3/8	3	AV4255705	65.00	52.00	-	-	-	-	-	-
3/4	3/8	2-3/4	-	-	-	AV4255716	92.10	73.68	AV4255726	92.10	73.68
3/4	3/8	3	AV4255706	92.10	73.68	-	-	-	-	-	-
1	1/2	3	-	-	-	AV4255717	153.15	122.52	AV4255727	153.15	122.52

CT176

CUTTING TOOLS



VA3® Spiral Point Plug Taps

- Specially designed for tough to machine stainless steels
- Best application - 300, 17-4ph stainless steels
- Good application - 400 stainless hardened steel up to 35 HRC
- OSG List #300



Size	No. of Flutes	Thread Limit	Order No.	Regular Price	SALE
4-40	2	H2	TP241730001	17.65	15.89
4-40	2	H3	TP241734801	17.65	15.89
6-32	2	H2	TP241735801	14.90	13.41
6-32	2	H3	TP241730201	14.90	13.41
8-32	3	H2	TP241735901	14.90	13.41
8-32	3	H3	TP241730301	14.90	13.41
10-24	3	H3	TP241730401	15.15	13.64
10-32	3	H2	TP241736501	15.15	13.64
10-32	3	H3	TP241730501	15.15	13.64
1/4-20	3	H2	TP241736601	16.50	14.85
1/4-20	3	H3	TP241730601	16.50	14.85
1/4-28	3	H2	TP241736701	16.50	14.85
1/4-28	3	H3	TP241730701	16.50	14.85
5/16-18	3	H3	TP241730801	17.90	16.11
5/16-24	3	H3	TP241730901	17.90	16.11
3/8-16	3	H3	TP241731001	20.20	18.18
3/8-24	3	H3	TP241731101	20.20	18.18
7/16-14	3	H3	TP241731201	26.05	23.45
7/16-20	3	H3	TP241731301	26.05	23.45
1/2-13	3	H3	TP241731401	30.45	27.41
1/2-20	3	H3	TP241731501	30.45	27.41
5/8-11	3	H3	TP241731601	55.80	50.22
5/8-18	3	H3	TP241731701	55.80	50.22
3/4-10	3	H3	TP241731801	88.30	79.47
3/4-16	3	H3	TP241731901	88.30	79.47

CT551

RAPIDKUT® Spiral Point Taps

- High speed steel
- Ground thread
- Plug style
- NC coarse thread



Size	No. of Flutes	Thread Limit	Order No.	Regular Price	SALE
4-40	2	H2	EL65904402P	6.30	3.78
6-32	2	H3	EL65906323P	5.15	3.09
8-32	2	H3	EL65908323P	5.15	3.09
10-24	2	H3	EL65910243P	5.05	3.03
1/4-20	2	H3	EL654203P	4.85	2.91
5/16-18	2	H3	EL655183P	5.50	3.30
3/8-16	3	H3	EL656163P	5.95	3.57
7/16-14	3	H3	EL657143P	14.20	8.52
1/2-13	3	H3	EL658133P	11.55	6.93
5/8-11	3	H3	EL6510113P	25.80	15.48
3/4-10	3	H3	EL6512103P	46.65	27.99

CT040



VA3® Spiral Point Plug Taps



Size	No. of Flutes	Class of Fit	Order No.	Regular Price	SALE
M3x0.50	3	D3	TP241750101	20.45	18.41
M4x0.70	3	D4	TP241750401	17.00	15.30
M5x0.80	3	D4	TP241750701	17.40	15.66
M6x1.0	3	D5	TP241751001	19.05	17.15
M8x1.25	3	D5	TP241751301	20.90	18.81
M10x1.5	3	D6	TP241751601	30.25	27.23
M12x1.75	3	D6	TP241751901	34.85	31.37

CT641

RAPIDKUT® Metric Hand Taps

- High speed steel
- Ground thread
- Plug style
- Hand taps are used in general machine tapping operations



Size (in.)	Thread Limit	No. of Flutes	Order No.	Regular Price	SALE
M2x0.40	D3	3	EP6027709	14.25	8.55
M2.5x0.45	D3	3	EP6027717	10.00	6.00
M3x0.50	D3	3	EP6027721	7.40	4.44
M3.5x0.60	D4	3	EP6027725	7.15	4.29
M4x0.70	D4	4	EP6027729	6.00	3.60
M5x0.80	D4	4	EP6027737	6.35	3.81
M6x1.0	D5	4	EP6027741	6.50	3.90
M8x1.0	D5	4	EP6027753	8.70	5.22
M8x1.25	D5	4	EP6027749	7.55	4.53
M10x1.25	D5	4	EP6027761	12.65	7.59
M10x1.5	D6	4	EP6027757	12.50	7.50
M12x1.25	D5	4	EP6027769	15.15	9.09
M12x1.75	D6	4	EP6027765	15.35	9.21

CT669

RAPIDKUT® Combination Drill & Taps High Speed Steel

- Drills and taps in a single pass
- Point is self-centering and eliminates the need for center drilling or center punching

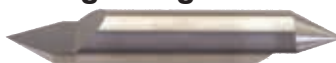


Tap Size	Tap Thread Length (in.)	Drill Size	Drill Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
4-40	3/8	.0890	1/4	1-7/8	ER5990440	21.00	12.60
6-32	7/16	.1095	5/16	2	ER5990632	22.45	13.47
8-32	1/2	.1360	3/8	2-1/8	ER5990832	20.25	12.15
10-24	5/8	.1520	13/32	2-3/8	ER5991024	21.30	12.78
10-32	5/8	.1610	13/32	2-3/8	ER5991032	21.30	12.78
1/4-20	25/32	.2010	17/32	2-1/2	ER59420	20.95	12.57
5/16-18	15/16	.2570	11/16	2-27/32	ER59518	30.55	18.33
3/8-16	1-1/16	.3125	13/16	3-3/8	ER59616	36.15	21.69
1/2-13	1-3/8	.4250	1-1/8	4-1/16	ER59813	51.15	30.69

CT016

RAPIDKUT® Solid Carbide Split End Engraving Blanks

Single End or Double End



Shank Dia. (in.)	OAL (in.)	Split Length (in.)	30°						60°						90°					
			Double End			Single End			Double End			Single End			Double End			Single End		
			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
1/4	2-1/2	1/2	DD5710035	27.85	19.50	DD5710034	20.40	14.28	DD5710026	27.85	19.50	DD5710025	20.40	14.28	DD5710005	27.85	19.50	DD5710004	20.40	14.28
1/8	1-1/2	3/8	DD5710029	12.95	9.07	DD5710028	7.80	5.46	DD5710020	12.95	9.07	DD5710040	7.85	5.50	DD5710001	12.95	9.07	DD5710000	7.80	5.46
3/16	2	7/16	DD5710032	17.50	12.25	DD5710031	11.90	8.33	DD5710023	17.50	12.25	DD5710022	11.90	8.33	DD5710003	17.50	12.25	DD5710002	11.90	8.33
3/8	2-1/2	1/2	-	-	-	-	-	-	DD5710039	43.95	30.77	DD5710038	33.65	23.56	DD5710009	43.95	30.77	DD5710008	33.65	23.56
5/16	2-1/2	1/2	-	-	-	-	-	-	-	-	-	-	-	-	DD5710007	36.60	25.62	DD5710006	26.25	18.38

CT726

CUTTING TOOLS



Taper Pipe Taps

Ground Thread • High Speed Steel • NPT/ANPT

- Chamfer - 2 - 3-1/2 threads
- Regular thread NPT taper pipe taps are commonly used for tapping pipe fittings and couplings in a wide variety of materials
- Assembly requires the use of a thread sealant to ensure a tight seal



Size	Thread Length (in.)	OAL (in.)	No. of Flutes	Order No.	Regular Price	SALE
1/16-27	11/16	2-1/8	4	MT4036121	19.65	14.74
1/8-27 (sm. shk.)	3/4	2-1/8	4	MT4036122	19.55	14.66
1/8-27 (lg. shk.)	3/4	2-1/8	4	MT4036123	19.55	14.66
1/4-18	1-1/16	2-7/16	4	MT4036124	21.35	16.01
3/8-18	1-1/16	2-9/16	4	MT4036125	28.05	21.04
1/2-14	1-3/8	3-1/8	4	MT4036126	44.60	33.45
3/4-14	1-3/8	3-1/4	5	MT4036127	63.10	47.33
1-11-1/2	1-3/4	3-3/4	5	MT4036128	95.15	71.36
1-1/4-11-1/2	1-3/4	4	5	MT4036129	134.70	101.03
1-1/2-11-1/2	1-3/4	4-1/4	7	MT4036130	184.70	138.53
2-11-1/2	1-3/4	4-1/2	7	MT4036131	248.20	186.15

CT518



Interrupted Thread Taper Pipe Taps

Ground Thread • High Speed Steel • NPT/ANPT

- Chamfer - 2 - 3-1/2 threads
- Interrupted thread taper pipe taps reduce friction, increase chip capacity, and enhance coolant flow to the cutting teeth for reduced change of torn threads and improve thread quality
- Recommended for a wide variety of materials, especially soft ductile materials and materials producing long continuous chips



Size & Pitch	Thread Length (in.)	OAL (in.)	No. of Flutes	Order No.	Regular Price	SALE
1/8-27 (lg. shk.)	3/4	2-1/8	5	MT4036002	31.10	23.33
1/8-27 (sm. shk.)	3/4	2-1/8	5	MT4036001†	31.10	23.33
1/4-18	1-1/16	2-7/16	5	MT4036003	34.40	25.80
3/8-18	1-1/16	2-9/16	5	MT4036004	43.25	32.44
1/2-14	1-3/8	3-1/8	5	MT4036005	68.95	51.71
3/4-14	1-3/8	3-1/4	5	MT4036006	98.90	74.18
1-11-1/2	1-3/4	3-3/4	5	MT4036007	153.80	115.35
1-1/4-11-1/2	1-3/4	4	5	MT4036008	211.95	158.96
1-1/2-11-1/2	1-3/4	4-1/4	7	MT4036009	284.65	213.49
2-11-1/2	1-3/4	4-1/2	7	MT4036010	386.45	289.84

CT519



Spiral Point Taps

- High speed steel
- Ground thread
- Plug style
- OSG List #105



Size	Thread Limits	No. of Flutes	Order No.	Regular Price	SALE
4-40	H2	2	TP111206400	9.15	6.86
6-32	H3	2	TP111212400	7.70	5.78
8-32	H3	2	TP111212800	7.70	5.78
10-24	H3	2	TP111213400	7.70	5.78
10-32	H3	2	TP111213800	7.70	5.78
1/4-20	H3	2	TP111230000	7.70	5.78
5/16-18	H3	2	TP111230800	8.30	6.23
3/8-16	H3	3	TP111231600	9.85	7.39
1/2-13	H3	3	TP111232400	17.10	12.83
5/8-11	H3	3	TP111233200	40.65	30.49
3/4-10	H3	3	TP111233600	57.30	42.98

CT505



Spiral Flute Taps

- High speed steel - ground thread
- Recommended for tapping relatively deep blind holes in materials which produce long curling chips
- The higher flute helix angle increases the lifting action in ejecting chips through the open end of the hole and affords increased ability to span slots or other interruptions



Size	No. of Flutes	Thread Limits	Order No.	Regular Price	SALE
6-32	2	H3	TP151412400	14.95	11.21
8-32	3	H3	TP151412800	14.95	11.21
10-24	3	H3	TP151413200	14.95	11.21
10-32	3	H3	TP151413400	14.95	11.21
1/4-20	3	H3	TP151430000	16.25	12.19
5/16-18	3	H3	TP151430400	19.95	14.96
3/8-16	3	H3	TP151430800	23.15	17.36
1/2-13	3	H3	TP151432000	40.80	30.60
5/8-11	4	H3	TP151432800	71.85	53.89
M4x0.7	3	D4	TP151985400	16.25	12.19
M5x0.8	3	D4	TP151985700	16.25	12.19
M8x1.25	3	D5	TP151986300	18.40	13.80
M10x1.5	3	D6	TP151986600	34.60	25.95

CT502



Helical Flute Thread Mills

- Completely CNC ground
- Helical flute design for reduced cutting forces, smoother cuts, longest tool life, and maximum thread milling performance
- 100% Thread form; superior threads vs. tapping
- Cuts right hand and left hand high quality threads
- Suitable for all types of materials, including heat treated and difficult to machine workpieces
- Supplied with AlTiN coating, uncoated thread mills are also available

Tolerances:

- Shank diameter: -.0001 to -.0003"
- Cutter diameter: ±.0005"
- Length of cut: +.050 to .000"
- Overall length: ±.015"
- TIR maximum: .0005"



Min. Thread Size	Pitch	Cutter Dia. (in.)	Shank Dia. (in.)	OAL (in.)	Length of Cut (in.)	No. of Flutes	Order No.	Regular Price	SALE
4	40	.080	1/4	2	3/16	2	GE45TM11240X	127.15	114.44
6	32	.100	1/4	2	1/4	2	GE45TM13832X	127.15	114.44
10	32	.120	1/4	2	5/16	3	GE45TM19032X	132.60	119.34
1/4	20	1/4	1/4	2-1/2	1/2	3	GE45TM25020X	139.15	125.24
1/4	28	.180	1/4	2-1/2	1/2	3	GE45TM25028X	139.15	125.24
5/16	18	.235	1/4	2-1/2	5/8	3	GE45TM31218X	152.00	136.80
5/16	24	.235	1/4	2-1/2	5/8	3	GE45TM31224X	152.00	136.80
3/8	16	.285	5/16	2-1/2	3/4	4	GE45TM37516X	184.45	166.01
3/8	24	.285	5/16	2-1/2	3/4	4	GE45TM37524X	184.45	166.01
7/16	14	.305	5/16	2-1/2	3/4	4	GE45TM43714X	184.45	166.01
7/16	20	.305	5/16	2-1/2	3/4	4	GE45TM43720X	193.50	174.15
1/2	13	.350	3/8	3	7/8	4	GE45TM50013X	193.50	174.15
5/8	11	.470	1/2	4	1-1/4	4	GE45TM62511X	224.20	201.78
3/4	10	.495	1/2	4	1-1/4	4	GE45TM75010X	224.20	201.78
3/4	12	.495	1/2	4	1-1/4	4	GE45TM75012X	224.20	201.78
3/4	16	.495	1/2	4	1-1/4	4	GE45TM75016X	224.20	201.78
7/8	14	.490	1/2	4	1-1/4	4	GE45TM87514X	225.05	202.55
1	8	.620	5/8	4	1-3/8	4	GE45TM00108X	241.85	217.67

CT489

CUTTING TOOLS



Jobber Length Drills

High Speed Steel • Bright Finish or Surface Treated

- 118° Point
- General purpose
- Bright finish good for aluminum and other non-ferrous materials
- Surface treated good for a wide range of materials except aluminum and other non-ferrous materials



Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Black			Bright		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/16	0.0625	7/8	1-7/8	MT1011382	1.35	0.95	MT1011582	1.35	0.95
5/64	0.0781	1"	2"	MT1011388	1.35	0.95	MT1011588	1.35	0.95
3/32	0.0938	1-1/4	2-1/4	MT1011395	1.30	0.91	MT1011595	1.30	0.91
7/64	0.1094	1-1/2	2-5/8	MT1011402	1.40	0.98	MT1011602	1.40	0.98
1/8	0.1250	1-5/8	2-3/4	MT1011408	1.25	0.88	MT1011608	1.25	0.88
9/64	0.1406	1-3/4	2-7/8	MT1011412	1.50	1.05	MT1011612	1.50	1.05
5/32	0.1563	2"	3-1/8	MT1011418	1.55	1.09	MT1011618	1.55	1.09
11/64	0.1719	2-1/8	3-1/4	MT1011424	1.70	1.19	MT1011624	1.70	1.19
3/16	0.1875	2-5/16	3-1/2	MT1011430	1.90	1.33	MT1011630	1.90	1.33
13/64	0.2031	2-7/16	3-5/8	MT1011437	2.05	1.44	MT1011637	2.05	1.44
7/32	0.2188	2-1/2	3-3/4	MT1011442	2.30	1.61	MT1011642	2.30	1.61
15/64	0.2344	2-5/8	3-7/8	MT1011446	2.45	1.72	MT1011646	2.45	1.72
1/4-E	0.2500	2-3/4	4"	MT1011450	2.40	1.68	MT1011650	2.40	1.68
9/32	0.2813	2-15/16	4-1/4	MT1011459	3.15	2.21	MT1011659	3.15	2.21
5/16	0.3125	3-3/16	4-1/2	MT1011464	4.05	2.84	MT1011664	4.05	2.84
11/32	0.3438	3-7/16	4-3/4	MT1011470	5.15	3.61	MT1011670	5.15	3.61
3/8	0.3750	3-5/8	5"	MT1011475	5.30	3.71	MT1011675	5.30	3.71
13/32	0.4063	3-7/8	5-1/4	MT1011481	7.10	4.97	MT1011681	7.10	4.97
7/16	0.4375	4-1/16	5-1/2	MT1011484	8.20	5.74	MT1011684	8.20	5.74
15/32	0.4688	4-5/16	5-3/4	MT1011486	9.75	6.83	MT1011686	9.75	6.83
1/2	0.5000	4-1/2	6"	MT1011488	9.50	6.65	MT1011688	9.50	6.65

CT547



Solid Carbide Long Series

Combined Drill & Countersinks

60° Angle



- Long length provides extra reach over a conventional tool

Size	Body Dia. (in.)	Drill Dia. (in.)	Point Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
2-0	1/8	.025	.025	4	AV4229004	60.55	48.44
2-0	1/8	.025	.025	6	AV4229006	66.75	53.40
0	1/8	1/32	1/32	4	AV4229014	60.55	48.44
0	1/8	1/32	1/32	6	AV4229016	66.75	53.40
1	1/8	3/64	3/64	4	AV4229104	55.65	44.52
1	1/8	3/64	3/64	6	AV4229106	61.80	49.44
2	3/16	5/64	5/64	4	AV4229204	57.85	46.28
2	3/16	5/64	5/64	6	AV4229206	67.00	53.60
3	1/4	7/64	7/64	4	AV4229304	70.50	56.40
3	1/4	7/64	7/64	6	AV4229306	84.15	67.32
4	5/16	1/8	1/8	4	AV4229404	79.85	63.88
4	5/16	1/8	1/8	6	AV4229406	96.75	77.40
5	7/16	3/16	3/16	4	AV4229504	120.75	96.60
5	7/16	3/16	3/16	6	AV4229506	155.70	124.56
6	1/2	7/32	7/32	4	AV4229604	166.45	133.16
6	1/2	7/32	7/32	6	AV4229606	207.50	166.00
7	5/8	1/4	1/4	6	AV4229706	297.55	238.04
8	3/4	5/16	5/16	6	AV4229806	410.45	328.36

CT719



Center Drills

Plain Type 60°

- Right hand
- High speed steel



Size (in.)	Body Dia. (in.)	OAL (in.)	Order No.	Regular Price	SALE
0	1/8	1-1/4	AV4210032†	7.30	5.48
1	1/8	1-1/4	AV4110100	5.10	3.83
2	3/16	1-7/8	AV4110200	5.30	3.98
3	1/4	2	AV4110300	5.55	4.16
4	5/16	2-1/8	AV4110400	5.70	4.28
4-1/2	3/8	2-1/2	AV4114500	7.85	5.89
5	7/16	2-3/4	AV4110500	9.05	6.79



Hi-Roc® Solid Carbide Drills for

Hardened Steel

135° Point



- Designed to drill hardened steel in the 42-65 Rockwell "C" range
- Produces chips without generating excessive heat
- Accurately sized holes without annealing or softening the workpiece
- Reamer type finishes are easily produced
- Both a production drill and a salvage or reclaim tool

Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/32	3/16	1-1/2	AX3020004	17.85	14.28
3/64	1/4	1-1/2	AX3020067	15.75	12.60
1/16	5/16	1-1/2	AX3020100	15.75	12.60
5/64	3/8	1-1/2	AX3020130	15.75	12.60
3/32	1/2	1-1/2	AX3020163	15.75	12.60
7/64	5/8	1-1/2	AX3020199	18.45	14.76
1/8	5/8	1-1/2	AX3020229	18.95	15.16
9/64	5/8	2	AX3020253	20.35	16.28
5/32	5/8	2	AX3020283	23.70	18.96
11/64	5/8	2	AX3020313	25.35	20.28
3/16	5/8	2	AX3020340	27.45	21.96
13/64	3/4	2	AX3020376	29.30	23.44
7/32	3/4	2	AX3020403	30.85	24.68
15/64	3/4	2	AX3020427	32.05	25.64
1/4	3/4	2	AX3020451	38.30	30.64
17/64	3/4	2-1/2	AX3020472	41.40	33.12
9/32	3/4	2-1/2	AX3020499	44.00	35.20
5/16	3/4	2-1/2	AX3020541	47.90	38.32
3/8	1	2-1/2	AX3020622	59.50	47.60
7/16	1	2-3/4	AX3020697	92.65	74.12
1/2	1	3	AX3020739	100.85	80.68

CT329

Size (in.)	Body Dia. (in.)	OAL (in.)	Order No.	Regular Price	SALE
6	1/2	3	AV4110600	13.60	10.20
7	5/8	3-1/4	AV4110700	20.60	15.45
8	3/4	3-1/2	AV4110800	28.30	21.23
9	7/8	3-5/8	AV4110900	51.35	38.51
10	1	3-3/4	AV4111000	67.35	50.51

†Aircraft Series

CT328

CUTTING TOOLS

Heavy Duty Jobber Drills

High Speed Steel • 135° Split Point

- Unique surface treatment for improved wear resistance in hard ferrous alloys
- Low thrust design self-centering split point for easier penetration
- Precision Twist List #HX10



Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/16	.0625	7/8	1-7/8	PT1222004	1.55	1.16
3/32	.0938	1-1/4	2-1/4	PT1222006	1.55	1.16
1/8	.1250	1-5/8	2-3/4	PT1222008	1.65	1.24
5/32	.1562	2	3-1/8	PT1222010	1.80	1.35
3/16	.1875	2-5/16	3-1/2	PT1222012	2.20	1.65
7/32	.2188	2-1/2	3-3/4	PT1222014	2.65	1.99
1/4	.2500	2-3/4	4	PT1222016	3.05	2.29
9/32	.2812	2-15/16	4-1/4	PT1222018	3.75	2.81
5/16	.3125	3-3/16	4-1/2	PT1222020	4.80	3.60
11/32	.3438	3-7/16	4-3/4	PT1222022	5.90	4.43
3/8	.3750	3-5/8	5	PT1222024	6.85	5.14
13/32	.4062	3-7/8	5-1/4	PT1222026	8.10	6.08
7/16	.4375	4-1/16	5-1/2	PT1222028	9.35	7.01
15/32	.4688	4-5/16	5-3/4	PT1222030	11.10	8.33
1/2	.5000	4-1/2	6	PT1222032	11.65	8.74

CT883

PROFIT Drill Blanks - Fractional

High Speed Steel

- Bright finish
- Hardened and ground
- Often also used as gages to check hole size and drill bushing sizes
- They can be used as guide pins or die sets, or modified as punches

Drill Blanks Tolerance: +.0000 - .0003

Sizes Over 1/2" +.0000 - .0005

Size (in.)	Decimal Equiv.	OAL (in.)	Order No.	Regular Price	SALE
1/32	.0312	1-3/8	AY50002	1.20	0.72
1/16	.0625	1-7/8	AY50004	1.55	0.93
3/32	.0938	2-1/4	AY50006	1.55	0.93
1/8	.1250	2-3/4	AY50008	1.55	0.93
5/32	.1562	3	AY50010	1.80	1.08
3/16	.1875	3-1/2	AY50012	1.95	1.17
7/32	.2188	3-3/4	AY50014	2.65	1.59
1/4	.2500	4	AY50016	3.20	1.92
9/32	.2812	4-1/4	AY50018	3.70	2.22
5/16	.3125	4-1/2	AY50020	4.25	2.55
3/8	.3750	5	AY50024	6.15	3.69
7/16	.4375	5-1/2	AY50028	8.90	5.34
1/2	.5000	6	AY50032	11.10	6.66
9/16	.5625	6	AY50036	17.85	10.71
5/8	.6250	6	AY50040	20.55	12.33
3/4	.7500	6	AY50048	27.45	16.47
1	1.0000	6	AY50100	44.00	26.40

CT606

RAPIDKUT 3xD High Performance Solid Carbide Drills

Fractional Sizes

- For use in a wide variety of materials including carbon steel, alloy steel, stainless steel, hardened steel, cast iron, aluminum alloys, titanium and others
- 140° Point and 30° helix high performance geometry allows for high penetration rates
- These high penetration drills provide accurate hole sizing as well as near burnished holes
- TiAlN coated



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/8	1/4	3xD	2.36	AX8020005	24.80	18.60
9/64	1/4	3xD	2.44	AX8020010	24.95	18.71
5/32	1/4	3xD	2.44	AX8020015	24.95	18.71
11/64	1/4	3xD	2.52	AX8020020	25.15	18.86
3/16	1/4	3xD	2.52	AX8020025	25.15	18.86
13/64	1/4	3xD	2.60	AX8020030	25.45	19.09
7/32	1/4	3xD	2.60	AX8020035	25.45	19.09
1/4	1/4	3xD	3	AX8020040	26.60	19.95
9/32	5/16	3xD	3	AX8020045	36.00	27.00

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
5/16	5/16	3xD	3	AX8020050	36.00	27.00
11/32	3/8	3xD	3.5	AX8020055	50.00	37.50
3/8	3/8	3xD	3.5	AX8020060	50.00	37.50
7/16	7/16	3xD	4.02	AX8020065	67.05	50.29
1/2	1/2	3xD	4.02	AX8020070	85.90	64.43
9/16	9/16	3xD	4.33	AX8020075	112.85	84.64
5/8	5/8	3xD	4.33	AX8020080	127.00	95.25
3/4	3/4	3xD	5.04	AX8020085	188.05	141.04

CT848

RAPIDKUT 5xD High Performance Solid Carbide Drills

- For use in a wide variety of materials including carbon steel, alloy steel, stainless steel, hardened steel, cast iron, aluminum alloys, titanium and others
- 140° Point and 30° helix high performance geometry allows for high penetration rates
- These high penetration drills provide accurate hole sizing as well as near burnished holes
- TiAlN coated
- Other sizes and styles available



- Fractional						
Size	Shank Dia.	Flute Length	OAL	Order No.	Regular Price	SALE
1/4, E	1/4	2.08	3.58	AX8021005	28.50	21.38
9/32, K	5/16	2.08	3.58	AX8021015	38.75	29.06
5/16	5/16	2.08	3.58	AX8021025	38.75	29.06
11/32	3/8	2.40	4.05	AX8021035	55.40	41.55
3/8	3/8	2.4	4.05	AX8021045	55.40	41.55
13/32	7/16	2.80	4.64	AX8021055	74.25	55.69
7/16	7/16	2.80	4.64	AX8021065	74.25	55.69
15/32	1/2	3.03	4-7/8	AX8021075	96.55	72.41
1/2	1/2	3.03	4-7/8	AX8021085	96.55	72.41
17/32	9/16	3.03	4-7/8	AX8021095	119.50	89.63
9/16	9/16	3.03	4-7/8	AX8021105	119.50	89.63
19/32	5/8	3-17/64	5.23	AX8021115	143.90	107.93
5/8	5/8	3-17/64	5.23	AX8021125	143.90	107.93
11/16	11/16	3-21/32	5-5/8	AX8021145	182.80	137.10
3/4	3/4	3-31/64	6	AX8021165	214.10	160.58

- Metric						
Size	Shank Dia.	Flute Length	OAL	Order No.	Regular Price	SALE
3mm	6mm	28mm	66mm	AX8031005	25.30	18.98
3.5mm	6mm	28mm	66mm	AX8031020	25.30	18.98
4mm	6mm	36mm	74mm	AX8031035	26.35	19.76
4.5mm	6mm	36mm	74mm	AX8031045	26.35	19.76
5mm	6mm	44mm	82mm	AX8031055	26.85	20.14
5.5mm	6mm	44mm	82mm	AX8031070	26.85	20.14
6mm	6mm	44mm	82mm	AX8031080	26.85	20.14
6.5mm	8mm	53mm	91mm	AX8031090	42.45	31.84
7mm	8mm	53mm	91mm	AX8031100	42.45	31.84
7.5mm	8mm	53mm	91mm	AX8031105	42.45	31.84
8mm	8mm	53mm	91mm	AX8031115	42.45	31.84
8.5mm	10mm	61mm	103mm	AX8031120	62.35	46.76
9mm	10mm	61mm	103mm	AX8031130	62.35	46.76
9.5mm	10mm	61mm	103mm	AX8031140	62.35	46.76
10mm	10mm	61mm	103mm	AX8031150	62.35	46.76
10.5mm	12mm	71mm	118mm	AX8031160	88.80	66.60
11mm	12mm	71mm	118mm	AX8031170	88.80	66.60
11.5mm	12mm	71mm	118mm	AX8031175	88.80	66.60
12mm	12mm	71mm	118mm	AX8031185	88.80	66.60
13mm	14mm	77mm	124mm	AX8031205	116.45	87.34
14mm	14mm	77mm	124mm	AX8031215	116.45	87.34
15mm	16mm	83mm	133mm	AX8031225	151.10	113.33
16mm	16mm	83mm	133mm	AX8031235	151.10	113.33
17mm	18mm	93mm	143mm	AX8031245	193.55	145.16
18mm	18mm	93mm	143mm	AX8031255	193.55	145.16
20mm	20mm	101mm	153mm	AX8031260	241.25	180.94

CT843

3M 3M™ Super 77™ Multi-Purpose Spray Adhesive

- High tack, high coverage and fast drying
- Use for permanently attaching foils, carpeting, lightweight foams, paper, cardboard, felt and cloth to painted or unpainted metals, wood and hardboard
- Bonds quickly in 15 seconds



Size	Order No.	Regular Price	SALE
24 oz	LF53212109	20.00	16.00

FL256

LOCTITE® 243 Blue Threadlocker Oil Resistant/Medium Strength

- Loctite 243 is a step up from 242
- 243 is designed for oil's 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



Size	Color	Order No.	Regular Price	SALE
10ml	Blue	LM501329837	14.85	12.05
50ml	Blue	LM501329467	39.30	33.40
250ml	Blue	LM501329505	143.30	116.00

FL360

CRC Syntha-Tech Lube Degreaser

- NSF, H1 registered, non-flammable, zero VOC, unique blend of synthetic lubricants that utilizes PTFE, anti-wear and extreme pressure additives to provide unparalleled lubricating performance
- **Applications:** Bearings, gears, linkages, motors, chains, cables, rollers, guide bars, pulleys, cams, valves, ball joints, hinges, slides, cutting tools, taps, dies, pistons, handling equipment, conveyors, hoists, lifts, doors, fans, and processing equipment



Size	Order No.	Regular Price	SALE
11 oz	LR5003054	13.75	11.70

FL364

KRYLON Industrial Tough Coat® Acrylic Enamel

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



Color	Order No.	Regular Price	SALE
Aluminum Gloss	LP4001760	5.75	4.80
Cherry Red Gloss	LP4001101	5.75	4.80
Machinery Dark Gray Gloss	LP4000325	5.75	4.80
Max Flat Black	LP4003727	5.75	4.80
Medium Gray Gloss	LP4001615	5.75	4.80
OSHA Black Gloss	LP4001770	5.75	4.80
OSHA Blue Gloss	LP4001510	5.75	4.80
OSHA Orange Gloss	LP4001210	5.75	4.80
OSHA Red Gloss	LP4001110	5.75	4.80
OSHA White Gloss	LP4001800	5.75	4.80
OSHA Yellow Gloss	LP4001310	5.75	4.80
Semi-Flat Black	LP4003725	5.75	4.80

FL002

LPS Tapmatic® #1 Gold

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



40320

40330

Size	Order No.	Regular Price	SALE
1 Pint	LJ6040320	12.90	10.95
1 Gallon	LJ6040330	74.20	63.05
5 Gallon	LJ6040340	299.50	254.55

FL197

LPS 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



Size	Order No.	Regular Price	SALE
11 oz	LJ6000216	12.60	10.70
1 Gallon	LJ6002128	51.50	43.75

FL212

Markal® ProLine® HP High Performance Paint Markers



- Marks on oily, soapy and wet surfaces
- Marks on most types of metal and coated metal surfaces including carbon and stainless steels, aluminum, powder coating, PVC plastics and epoxies
- Resists fading under the harshest conditions
- Xylene-free: No EPA SARA 313 chemical
- Marking temp: range -50°F - 150°F

MADE IN THE USA

Color	Order No.	Regular Price	SALE
White	LH5296960	2.80	2.25
Yellow	LH5296961	2.80	2.25
Red	LH5296962	2.80	2.25
Black	LH5296963	2.80	2.25
Orange	LH5296964	2.80	2.25
Blue	LH5296965	2.80	2.25
Green	LH5296966	2.80	2.25
Silver	LH5296967	2.80	2.25

FL265

WD-40 Lubricant

- WD-40 will not oxidize and cause delicate machining to gum up as will normal lubricants. It keeps lubricating quality at all temperatures, even in cold weather
- Penetrates and displaces moisture



MADE IN THE USA

Size	Order No.	Regular Price	SALE
12 oz Smart Straw	LS5149005	9.15	6.85
8 oz Smart Straw	LS5149002	6.85	5.15
11 oz Smart Straw	LS5149004	8.75	6.55
16 oz	LS5149008	9.00	6.75
1 Gallon	LS5149011	32.10	24.05
5 Gallon	LS5149012	153.80	115.30
Spray Applicator (empty)	LS5010000	4.45	3.55

FL155



Cutting Fluids

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

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



Size	Tap Magic Aluminum			Tap Magic with EP-Xtra		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 oz	LJ5020004A	3.50	2.80	LJ5010004E	3.50	2.80
16 oz	LJ5020016A	11.20	8.95	LJ5010016E	11.20	8.95
1 Gallon	LJ5020128A	67.20	53.75	LJ5010128E	67.20	53.75

FL163



Astro-Cut SYN

- Heavy-duty oil free synthetic cutting and grinding fluid concentrate
- Superior machining lubrication on most metals except magnesium, excellent on cast iron
- Very low foam
- Water extendable
- Nitrite free and Phenol free
- Resistant to damage from tramp oil
- Long tank life
- Additional handling charges may apply



Size	Order No.	Regular Price	SALE
5 Gallon	LK500030105	132.00	112.20
55 Gallon	LK500030155†	1046.00	993.70

†All 55 Gallon Drums FOB Factory

FL383

Accu-Lube Lubricants and Paste

MADE IN THE USA

Accu-Lube LB-2000

- Medium to Heavy Duty Machining
- For use in general machinery, drilling and tapping small diameter holes
- High performance natural base oil
- Environmentally friendly and worker safe
- Good for all metals



LB2000

Accu-Lube LB-3000

- Medium Duty Machining: sawing, solids and tubing drilling and tapping small holes, stamping, rolling
- Economical high performance natural base cutting oil
- Environmentally friendly and worker safe
- Must be cleaned off prior to post heat treating
- Good for all metals



LB3000

Accu-Lube Paste

- The industry standard for horizontal applications
- Brush it on for tapping, reaming or drilling
- Environmentally safe and biodegradable



79030

Accu-Lube Stick Lubricants

- Reduce heat build-up in belt, disc or wheel grinding operations
- Apply the ready-to-use stick to the tool before start-up
- Environmentally safe and biodegradable



79042



79045

Size	Order No.	Regular Price	SALE
1 Gallon	LK60LB2000	73.75	69.50
1 Gallon	LK60LB3000	47.75	45.00
8 oz	LK6079030	10.50	9.85
13 oz Tube	LK6079045	14.25	13.45
2.02 oz Push-up Stick	LK6079042	4.50	4.05

FL304

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



Size	Order No.	Regular Price	SALE
1 Gallon	LK6074016	41.75	37.60
5 Gallon	LK6074056	167.00	150.30

FL217

CROWN Cutting Oil

- Provides maximum lubricity for ferrous and non-ferrous machining
- Reduces downtime and increases tool life



FL402

Size	Order No.	Regular Price	SALE
16 oz	LP507020	6.95	5.55



12" Oil Skimmer

- Removes floating tramp oils
- Removes up to 1-1/2 gallons of oil per hour
- Flexible wiper blades
- Shipping weight 9 lbs
- Disks & wipers are guaranteed for life



MADE IN THE USA

Order No.	Regular Price	SALE
NY40LH300	247.95	223.15

FL162



Odor Control Tablets

- Eliminates coolant stench
- Safe and easy to use
- Contains no formaldehyde or formaldehyde-releasing chemicals
- Most effective way to control odors in any water based coolant system
- Safer and more economical than biocides
- Use one tablet per 25 gallons of coolant every 2 weeks
- Designed for small sumps usually of 200 gallons or less
- 15 Tablets per tube



MADE IN THE USA

Order No.	Regular Price	SALE
NY40XOCT25	40.95	36.85

FL164

DEWALT Reciprocating Saws

★★NEW★★



DWE305

Features	No Load Speed	Motor	Stroke	Order No.	Regular Price	SALE
4 Position keyless lever action blade clamp, variable speed trigger	0-2900 SPM	12 Amps	1-1/8	PD20DWE305	178.15	158.70
Compact and lightweight design; 14.5" in total length fits between studs and allows user to make cuts in confined spaces	0-3000 SPM	12 Amps	1-1/8	PD20DWE357	174.70	152.65

PT871

DEWALT Professional Series Die Grinder



DW888

Features	No Load Amps	RPM	Collet Size (in.)	Order No.	Regular Price	SALE
High power 4.5 motor for all 1-1/2" grinding applications and features a convenient paddle switch with lock-on button for easy gripping	4.2	25000	1/4	PD20DWE4887	251.15	223.70
All ball bearing construction, (2) wrenches, trigger switch, 3-prong 8' cord	5.0	19000	1/8, 1/4	PD20DW888	391.80	348.95

PT488

DREMEL Saw-Max™ Tool Kit

- Powerful 6 Amp motor – easily tackles the toughest applications
- Versatile cutting system – for cutting a variety of materials including wood, plastic, metal, tile and masonry
- Worm drive™ gearing – for durability and power
- Excellent line of sight for precise, confident cuts



★★NEW★★

Order No.	Regular Price	SALE
PH50SM2002	211.60	188.50

PT859

DREMEL 7000-N/5 Cordless Rotary Tool

- Designed for drilling, sanding, shaping, detailing and other light-duty jobs
- Uses standard AA alkaline batteries to eliminate the need for a battery charger
- Battery charge time: 3 hours
- Can be used with most Dremel rotary tool accessories with up to a 1/8 In. shank diameter
- Ideal performance for small craft projects
- Cordless—goes anywhere. No electrical outlet required
- Two-speed simplicity is ideal for variety of materials



★★NEW★★

Order No.	Regular Price	SALE
PH507000N5	36.10	32.20

PT856

metabo 4-1/2" Angle Grinder - WB-115 Quick Wheel Change System

- 4-1/2" Maximum wheel diameter
- Long life motor
- Quick wheel change system
- Low profile aluminum die cast gear housing
- Toolless guard adjustment
- Torque limiting clutch and restart protection
- Gear housing can be mounted turned in 90° steps
- 10,500 No load RPM
- 8.0 Amps
- 5/8-11 Spindle thread



Order No.	Regular Price	SALE
PD35W9115Q	215.50	192.70

PT500

STEINEL UltraHEAT SV750 High Output Blower

- Self cooling output tube
- Adjustable air baffles
- Slide switch with cool air stage
- Removable stand
- Double insulated
- Temperature range: 750°F - 1000°F (399°C - 538°C)
- Voltage: 120VAC / 60Hz output: 1750 watt
- 1 Year limited warranty



Order No.	Regular Price	SALE
PD5534075	106.10	94.90

PT458

AIRCAT 6" Air Powered Palm Orbital Sanders



Features	Disc Dia.	Free Speed RPM	Average Air Consumption	Air Inlet Size	Spindle Thread	Order No.	Regular Price	SALE
10,000 RPM, 3/16" (2.5 mm) Orbit, Low weight (2.3 lbs) and low air consumption (2.5 CFM average), Lubrication free air motor with patented double sealing to prevent dust contamination, Isolated motor design reduces vibration to 1.8 m/sec, Internal silencing system reduces noise level to 82 dBA, Built-in thumb operated speed regulator for instant control, Rubberized comfort palm grip, Low profile only 3-3/4" high	6	10000	2.5 CFM	1/4 NPT	5/16 - 24	PF546310	170.00	151.45
11,000 RPM, 3/16" Orbit (2.5 mm), Low weight (1.8 lbs) and low air consumption (2.5 CFM average), Lubrication free air motor with patented double sealing to prevent dust contamination, Isolated motor design reduces vibration to 1.8 m/sec, Internal silencing system reduces noise level to 82 dBA, Built-in thumb operated speed regulator for instant control, Rubberized comfort palm grip, Low profile only 4-1/4" high	6	11000	2.5 CFM	1/4 NPT	5/16 - 24	PF546300	170.00	151.45

PT868

Chicago Pneumatic Air Powered Drills - 3/8" Chuck



CP9285



CP879

Description/Features	Type	Free Speed RPM	Average Air Consumption	Air Inlet Size	Spindle Thread	Exhaust Type	Order No.	Regular Price	SALE
Lightweight easy to use, triple idler planetary gears, double ball bearing supported spindle, teasing throttle	Pistol Grip, Non-Reversible	2900	5.25 CFM	1/4 NPT	3/8-24	Handle	PF50CP9285	143.95	128.75
Variable speed type motor, teasing throttle, industrial quality chuck	Right Angle, Reversible	1800	5.25 CFM	1/4 NPT	3/8-24	Handle	PF50CP879	151.50	135.50

PT425

Chicago Pneumatic Air Powered Ratchets



CP825



CP828



CP828H

Sq. Drive (in.)	Features	Free Speed RPM	Air Inlet Size	Average Air	Order No.	Regular Price	SALE
1/4	Progressive tease throttle, Small ratchet (only 6.5"/165mm long) - convenient forward and reverse button - one-finger directional changes - compact and lightweight Ideal for tight access applications	200	1/4 NPT	2.75 CFM	PF50CP825	182.85	163.50
3/8	Features CP's new TriSpring anti-slip head design which virtually eliminates slippage while reducing the potential for heat build-up, even in long run downs - compact, yet packed with power and speed - ultimate torque: 68Nm (50ft/lbs)	150	1/4 NPT	3.75 CFM	PF50CP828	160.30	143.35
1/2	Features CP's new TriSpring anti-slip head design which virtually eliminates slippage while reducing the potential for heat build-up, even in long run downs - compact, yet packed with power and speed - ultimate torque: 68Nm (50ft/lbs)	150	1/4 NPT	3.75 CFM	PF50CP828H	162.65	145.45

PT426

Air Supreme® Air Die Grinders

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



DG1



SM522

Features	Style	Free Speed RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
All ball bearing construction, lever throttle for positive speed control, complete with collet wrenches	Straight	22000	4 CFM	1/4 NPT	PJ60DG1	33.95	26.95
Lever throttle for positive speed control, complete with collet wrenches	Right Angle	20000	4 CFM	1/4 NPT	PJ60SM522	57.75	45.85

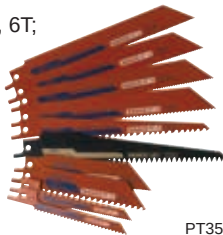
PT299

Snap-on
INDUSTRIAL BRANDS

BAHCO

Reciprocating Saw Blade Set

- 10 Pc. set contains:** (2) 4" Straight blades, 24T, 6T;
(2) 4" Contour blades, 10T and 18T;
(1) 6" Sloped blade, 5/8T;
(4) 6" Straight blades, 10T, 14T, 18T and 24T;
(1) 6" Sloped wood cutting blade 7T



PT358

Order No.	Regular Price	SALE
FX848247041	32.65	29.10

Milwaukee

Sawzall® Metal Cutting Blades

- 5 Piece package



Length (in.)	TPI	Recommended For Cutting	Order No.	Regular Price	SALE
6	24	Metal and pipe, 18 gauge and under metal, trim, tubing	PD5048005786	16.40	14.05
3-5/8	14	Metal Scroll - Heavy gauge metal, hard rubber, fiber	PD5048011162	13.40	11.95
3-5/8	18	Metal Scroll - Metal thinner than 1/8" thick	PD5048011163	13.40	11.95

PT241

Milwaukee

Sawzall® Blades



Style - All Purpose Blades					
Length (in.)	TPI	Recommended For	Order No.	Regular Price	SALE
8	8/12	All woods, nail embedded, composition materials, plastic, cast aluminum, non-ferrous metals	PD5048013093	16.95	15.10
12	8/12	Extra length - all woods, nail embedded, composition materials, plastic, cast aluminum, light gauge non-ferrous metals, cast iron	PD5048013094	23.10	21.45

Style - Demolition Blades Ax and Torch					
Length (in.)	TPI	Recommended For	Order No.	Regular Price	SALE
6	18	Metal pipe, angle iron, steel or nail embedded wood	PD5048005784	18.20	16.25
9	18	Metal pipe, angle iron, steel or nail embedded wood.	PD5048005788	24.10	21.50
12	18	Metal pipe, angle iron, steel or nail embedded wood.	PD5048005789	27.75	24.75

PT844

Air Supreme® Pneumatic Cut-Off Tool & Right Angle Grinder Kit

Kit Includes:

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



Order No.	Regular Price	SALE
PJ752060	111.55	88.55

PT223

Starrett® Industrial Fastcut™ Hole Saw Kit - Bi-Metal

MADE IN THE USA

Eleven Fastcut bi-metal hole saws:
3/4, 7/8, 1, 1-1/4, 1-3/8, 1-1/2, 1-3/4, 2, 2-1/4 2-1/2, 3"; A1, A2 Arbors;
A5 12" Extension; A7 Ejector spring



Order No.	Regular Price	SALE
FZ7061841	180.30	143.05

PT522

Haugen

RotaBroach™ Hole Cutters

2" Depth of Cut

- Designed for fast, efficient hole making with portable magnetic drills
- Universal cutters cut only the material necessary to produce a quality hole - the rest pops out as a slug



Drill Dia. (in.)	Decimal Equivalent	Order No.	Regular Price	SALE
9/16	.5625	FZ8012218	45.20	40.70
5/8	.6250	FZ8012220	48.75	43.90
11/16	.6875	FZ8012222	54.05	48.65
3/4	.7500	FZ8012224	59.40	53.50
13/16	.8125	FZ8012226	62.95	56.70
7/8	.8750	FZ8012228	66.75	60.10
15/16	.9375	FZ8012230	71.80	64.65
1	1.0000	FZ8012232	77.95	70.20
1-1/16	1.0625	FZ8012234	79.80	71.85
1-1/8	1.1250	FZ8012236	92.20	83.00
1-1/4	1.2500	FZ8012240	99.55	89.60
1-5/16	1.3125	FZ8012242	104.75	94.30
1-3/8	1.3750	FZ8012244	110.00	99.00
1-1/2	1.5000	FZ8012248	132.25	119.05
1-9/16	1.5625	FZ8012250	147.90	133.15

Also available in 1" depth of cut and carbide for abrasive and tough to cut material.

PT539

DREMEL® EZ Lock™ EZ Drum™ Kit

- EZ Lock™ mandrel and EZ Drum™ mandrel for faster accessory changes
- Reusable storage box
- Application and material usage information included
- The kit features 18 EZ Lock sanding and grinding accessories and includes one EZ Lock™ mandrel, one EZ Drum™ mandrel, 6 sanding discs, 1 grinding wheel, 2 grinding stones, 6 sanding bands, and 1 abrasive buff

★NEW★



Order No.	Regular Price	SALE
PH50EZ68601	26.50	23.65

PT866

Legacy Auto Rewind, Auto Leveling Hose Reels

- Featuring a unique winding system that automatically layers the hose back & forth across the reel
- Auto-rewind
- 3/4" Hose swivel
- Free standing base
- Latching & free-run mode
- Adjustable hose stopper



Hose OD (in.)	Length	Type	Order No.	Regular Price	SALE
3/8	50'	Levelwind Retractable Air Hose Reel	LX55L8305	305.75	242.60
3/8	75'	Levelwind Retractable Air Hose Reel	LX55L8306	271.65	215.55
3/8	100'	Levelwind Retractable Air Hose Reel	LX55L8310	339.75	269.55
5/8	50'	Levelwind Retractable Garden Hose Reel	LX55L8346	305.75	242.60
3/4	50'	Levelwind Retractable Twin Hose Reel	LX55L8363	420.60	333.70

PT344

COILHOSE PNEUMATICS Typhoon™ High Flow Blow Guns

- 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
- 3/8 NPT up to 51 CFM at 125 PSI and 3.1 lbs. of thrust
- OSHA compliant



TYP2500CS TYP3800MJ

Inlet	Description	Order No.	Regular Price	SALE
1/4 NPT	High Flow Tip	LT51TYP2500CS	24.55	19.50
1/4 NPT	Chrome Plated High Flow Tip	LT51TYP2501CS	39.00	30.95
3/8 NPT	Multi-Jet Tip	LT51TYP3800MJ	49.25	39.10

PT432

GUARDAIR Whisper Jet Blow Gun

- Quietest safety air gun available
- Unique nozzle design
- Solid conical tip
- Ergonomic pistol grip and trigger
- 1/4 NPT inlet. maximum opening pressure 150 PSI
- Meets OSHA standards

MADE IN THE USA



Order No.	Regular Price	SALE
LW5580WJ	23.45	23.25

PT169

Air Filter / Regulator / Lubricator Trio

- Heavy gauge all steel reel assembly
- Ratchet gearing locks reel at desired length
- Air Inlet: 3/8" NPT
- Air Outlet: 3/8" NPT



Order No.	Regular Price	SALE
KP8321001	135.85	95.10

PT461



Pedestal Spring Rewind Reels

- Sturdy single pedestal reel with space saving design facilitates workplace organization
- Guide arm adjusts to wall, floor, vehicle and overhead positions
- Solid one piece, heavy gauge 1/4" steel base and support post for maximum stability
- 1" Solid steel axle and lubricated precision bearings for smooth rotation



Style - EZ-Coil					
Hose ID	Length	W x H x L	Order No.	Regular Price	SALE
1/2"	50'	6 x 16-1/2 x 15-1/4"	LT55EZPLP450	374.65	352.80
1/4"	25'	7 x 18-5/8 x 17-1/8"	LT55EZPLP125	240.80	226.75
3/8"	25'	8-1/2 x 14-7/8 x 13-1/2"	LT55EZPLP325	257.00	242.00
3/8"	50'	8-1/2 x 14-7/8 x 13-1/2"	LT55EZPLP350	336.95	317.30

Style - Spring Driven					
Hose ID	Length	W x H x L	Order No.	Regular Price	SALE
1/2"	50'	9-3/8 x 21-1/4 x 19-1/2"	LT55PLP450	316.25	297.80
1/4"	25'	10-1/4 x 21-1/4 x 19-1/2"	LT55PLP125	182.40	171.75
3/8"	25'	8-1/4 x 21-1/4 x 19-1/2"	LT55PLP325	198.60	187.05
3/8"	50'	9-3/8 x 25-1/2 x 24"	LT55PLP350	278.55	262.30

PT873



Polyurethane Self-Storage Air Hoses

- All sizes and lengths come complete with swivel male Vibra-Seal® thread sealant fittings
- 8" Supply end and 16" working end
- Impervious to abrasions and oil
- 25% Lighter than rubber
- Superior elasticity and coil memory
- Dark blue



Length	1/4 MPT			3/8 MPT		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
10'	LT51PU1410BB	26.45	21.00	LT51PU3810BB	46.40	36.85
15'	LT51PU1415BB	30.80	24.45	-	-	-
20'	LT51PU1420BB	34.70	27.55	-	-	-
25'	LT51PU1425BB	39.60	31.45	LT51PU3825BB	76.50	60.70

.160 Hose I.D. available on request.

PT015

HAND TOOLS

wiha TORX® Drivers - T-Handle & Cushion Grip Screwdrivers

- Ergo molded on cushion grip for maximum torque - molded on handle for permanent bond
- Blades of Wiha exclusive CRM-72 tool steel
- Through hardened for maximum durability
- Precision machined exact fit TORX® tips
- Hard chromed surface finish for extreme wear



Style - Screwdriver			
Size	Order No.	Regular Price	SALE
T6	KN5436266	5.25	4.20
T7	KN5436268	5.20	4.20
T8	KN5436270	5.20	4.20
T9	KN5436272	5.70	4.60
T10	KN5436274	5.85	4.70
T15	KN5436276	6.15	4.95
T20	KN5436278	6.50	5.20
T25	KN5436280	7.55	6.10

Style - T-Handle			
Size	Order No.	Regular Price	SALE
T9	KN5436409	6.10	4.90
T10	KN5436410	6.45	5.20
T15	KN5436415	7.40	5.95
T15	KN5436417	7.55	6.05
T20	KN5436420	8.30	6.65
T20	KN5436422	8.45	6.80
T25	KN5436427	8.75	7.00

HT555

CHAN NEL LOCK 6 Pc. Screwdriver Set

- Acetate handles highly impact resistant and exceptional solvent resistance
- High polished alloy steel blades that are heat treated for exceptional strength and durability
- Precision machined vapor blast tips

★★NEW★★

MADE IN THE USA



Set Includes	Finish	Order No.	Regular Price	SALE
#1 x 3, #2 x 4, #2 x 6 Phillips; 3/16 x 3, 1/4 x 4, 1/4 x 6 Slotted	Chrome	LB50SD6A	39.70	33.75

HT2042

Eklind Ergo-Fold™ Hex Key Sets

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

MADE IN THE USA



No. of Pieces	Set Includes	Order No.	Regular Price	SALE
6	5/32, 3/16, 7/32, 1/4, 5/16, 3/8	KM5025611	13.45	10.10
9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	KM5025911	9.40	7.05
6	3, 4, 5, 6, 8, 10mm	KM5025161	13.45	10.10
7	1.5, 2, 2.5, 3, 4, 5, 6mm	KM5025171	8.10	6.05

HT344

BONDHUS Triple Pack (Ball & Torx®)

- 13 Pc. Fractional Ball L-Wrenches .050 to 3/8"
- 9 Pc. Metric Ball L-Wrenches 1.5mm to 10mm
- 8 Pc. Torx® Fold-Up T-6 to T-25

MADE IN THE USA



Order No.	Regular Price	SALE
KN5314132	47.20	28.30

HT322

BONDHUS 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

MADE IN THE USA



Set Includes	Order No.	Regular Price	SALE
Sizes 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8-Inch and 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, and 10mm	KN5320199	32.95	19.75

HT504

wiha Black Finish Mid Length Ball End Hex Keys Sets

- Standard Long Arm Inch Ball End L-Keys
- High performance Chrome-V-Moly Tool Steel
- Hardened & Oil Quenched for maximum durability
- Machine chamfered ends for a perfect fit
- No impact cut off distortions
- Guaranteed Professional Quality
- Made in Germany



36999



36937



36900

No. of Pieces	Arm Style	Set Includes	Order No.	Regular Price	SALE
9	Mid-Length	Standard ASTM Mid Length Keys 1.5, 2, 2.5, 3, 4, 5, 6, 8, & 10mm In Compact Molded Holder	KN5436999	16.70	13.45
13	Mid-Length	Mid Length Ball Hex 13 Piece Set With Chrome-V-Moly Super Tool Steel .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 In Compact Molded Holder	KN5436937	19.85	15.95
22	Extra Long	Standard Mid Length Ball Hex 13 Piece Set .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 Standard Mid Length Ball Hex 9 Pc. Metric Set 1.5, 2, 2.5, 3, 4, 5, 6, 8, & 10mm	KN5436900	36.55	29.50

HT1199

HAND TOOLS

PRM PRO Insert Bits

- S2 modified steel with a Rockwell hardness between 58-62 HRC
- 1/4" Drive with exact fit machined tips
- Lifetime warranty against mfg defect

★★NEW★★



Torx® Size	OAL (in.)	Order No.	Regular Price	SALE
T6	1	KN7020005	1.35	1.00
T7	1	KN7020010	1.10	0.85
T8	1	KN7020015	1.10	0.85
T9	1	KN7020020	1.10	0.85
T10	1	KN7020025	1.05	0.80
T15	1	KN7020030	1.05	0.80
T20	1	KN7020035	1.05	0.80
T25	1	KN7020040	1.05	0.80
T27	1	KN7020045	1.05	0.80
T30	1	KN7020050	1.05	0.80
T40	1	KN7020055	1.05	0.80

Torx® is a registered trademark of Acument Global Technologies.

HT168

PRM PRO 2" & 3-1/2" Torx® Power Bits

- S2 modified steel with a Rockwell hardness between 58-62 HRC
- 1/4" Drive with exact fit machined tips
- Lifetime warranty against mfg defects

★★NEW★★



Torx® Size	2			3-1/2		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
T5	KN7020100	1.55	1.15	-	-	-
T6	KN7020105	1.55	1.15	KN7020160	1.95	1.45
T7	KN7020110	1.55	1.15	KN7020165	1.95	1.45
T8	KN7020115	1.35	1.00	KN7020170	1.95	1.45
T9	KN7020120	1.35	1.00	KN7020175	1.95	1.45
T10	KN7020125	1.35	1.00	KN7020180	1.80	1.35
T15	KN7020130	1.35	1.00	KN7020185	1.80	1.35
T20	KN7020135	1.35	1.00	KN7020190	1.80	1.35
T25	KN7020140	1.40	1.05	KN7020195	1.80	1.35
T27	KN7020145	1.35	1.00	-	-	-
T30	KN7020150	1.35	1.00	KN7020200	1.80	1.35
T40	KN7020155	1.35	1.00	-	-	-

HT178

wiha TORX® Drivers & Keys

- Exact fit precision machined torx tips
- Through hardened for best wear resistance
- Blades of Wiha-exclusive CRM-72 tool steel
- Hard chromed finish for corrosion resistance
- Guaranteed quality - Made in Germany



Type - Flag Handle Torx® Set				
No. of Pieces	Set Includes	Order No.	Regular Price	SALE
7	T6, T7, T8, T9, T10, T15, T20	KN5437090	31.65	25.45

Type - Long Arm Torx® L-Key Set				
No. of Pieces	Set Includes	Order No.	Regular Price	SALE
13	T5, T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40, T50	KN5436699	47.60	38.25

Type - Torx® Cushion Screwdriver Set				
No. of Pieces	Set Includes	Order No.	Regular Price	SALE
6	T6, T7, T8, T9, T10, T15	KN5436291	33.65	27.10
8	T6, T8, T10, T15, T20, T25, T27, T30	KN5436294	55.35	44.50

HT763

APEX Phillips Bits



★★NEW★★

MADE IN THE USA

Point Size	Drive Size	OAL (in.)	Heat Treat	Apex #	Order No.	Regular Price	SALE
#1	1/4	1	Hard	440-1X	KW7060015	1.05	0.85
#2	1/4	1	Hard	440-2X	KW7060035	0.95	0.75
#2	1/4	1	Medium	440-2I	KW7060030	1.00	0.80
#2	1/4	1-1/2	Hard	440-215X	KW7060020	1.90	1.50
#2	1/4	2	Hard	440-22X	KW7060025	2.40	1.90
#3	1/4	1	Hard	440-3X	KW7060040	0.95	0.75
#4	1/4	1-5/16	Hard	440-4X	KW7060045	4.00	3.20
#2	5/16	1-1/4	Hard	480-2X	KW7060065	1.85	1.50
#3	5/16	1-1/4	Hard	480-3X	KW7060075	1.85	1.50

HT2058

APEX Torx Plus® Bits Power Drive

- Power bits are best used with quick-release (QR series) chucks



★★NEW★★

MADE IN THE USA

Point Size	Drive Size	OAL (in.)	Apex #	Order No.	Regular Price	SALE
10IP	1/4	1-15/16	49-10IPX	KW7060465	9.15	7.80
10IP	1/4	2-3/4	49-A-10IPX	KW7060420	10.00	8.00
10IP	1/4	3-1/2	49-B-10IPX	KW7060510	11.50	9.20
15IP	1/4	1-15/16	49-15IPX	KW7060470	8.85	7.10
15IP	1/4	2-3/4	49-A-15IPX	KW7060425	9.95	7.95
15IP	1/4	3-1/2	49-B-15IPX	KW7060515	11.50	9.20
20IP	1/4	1-15/16	49-20IPX	KW7060475	9.20	7.35
20IP	1/4	2-3/4	49-A-20IPX	KW7060430	10.00	8.00
20IP	1/4	3-1/2	49-B-20IPX	KW7060520	11.50	9.20
25IP	1/4	1-15/16	49-25IPX	KW7060480	9.20	7.35
25IP	1/4	2-3/4	49-A-25IPX	KW7060435	10.00	8.00
25IP	1/4	3-1/2	49-B-25IPX	KW7060525	11.50	9.20
27IP	1/4	1-15/16	49-27IPX	KW7060485	9.20	7.35
27IP	1/4	2-3/4	49-A-27IPX	KW7060440	10.00	8.00
27IP	1/4	3-1/2	49-B-27IPX	KW7060530	11.50	9.20
30IP	1/4	1-15/16	49-30IPX	KW7060495	8.90	7.10
30IP	1/4	2-3/4	49-A-30IPX	KW7060445	10.00	8.00
30IP	1/4	3-1/2	49-B-30IPX	KW7060535	11.50	9.20
40IP	1/4	1-15/16	49-40IPX	KW7060415	9.10	7.30

HT2059

APEX Hex Drive Bit Holders

- Tools bit holders are made with high quality steel
- Magnetic bit holders keep the bit in driving position, even when working straight down
- Time-wasting motions are eliminated when starting or working in hard-to-reach areas
- These bit holders are identified with a M- prefix
- Made from select raw materials and only high grade tool steel
- Tightest tolerances in the industry, closer tolerances mean a better fit and less cam-out or stripping



Point Size	Drive Size	OAL (in.)	Apex #	Order No.	Regular Price	SALE
1/4"	1/4	2	M-490-2	KW7060945	16.50	13.20
1/4"	1/4	2-31/32	M-490	KW7060940	14.85	11.90

HT2060

APEX Female Square Drive Quick Release Chucks - Non Magnetic

★★NEW★★

MADE IN THE USA

- Quick releasing chucks from Apex™ offer the flexible use of power bits with a variety of tools
- Easy quick release to save you time and make your job less cumbersome
- Made from select raw materials, only high grade tool steel is used.
- Manufactured to the tightest tolerances in the industry
- Better fit and less cam-out or stripping, which in turn keeps work areas free of damage and reduces incidence of bit failure and costly re-work.



Drive Size	Point Size	OAL (in.)	Apex #	Order No.	Regular Price	SALE
1/2	1/4"	2-1/8	QR-508	KW7060990	59.65	47.70
1/4	1/4"	1-1/2	QR-108	KW7060980	59.65	47.70
3/8	1/4"	1-3/4	QR-308	KW7060985	60.40	48.30

HT2061

TEKTON 135 Pc. Pro-Grade Tool Set

Complete Assortment of Professional-Grade Wrenches, Ratchets, Sockets, and Screwdriver Bit

- High Quality Forged and Heat Treated Chrome Vanadium Steel Construction
- Corrosion-Resistant Chrome Plated Finish for Long Life
- 72-Tooth Ratchets Need Only 5° Swing Arc
- 6-Point Flank Drive Sockets
- Combination Wrenches Feature 15° Angled Open Ends and 15° Offset, 12-Point Box Ends
- Carry Case Converts to Toolbox Storage Trays
- LIFETIME MFG WARRANTY

Contents:

- 8-pc. Combination Wrenches: SAE 3/8, 7/16, 1/2, 9/16" & Metric: 10, 12, 13, 14mm
- 22-pc. Hex Key: SAE: 0.05, 1/16 thru 1/4" & Metric: 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm
- 17-pc. 1/4" Drive Sockets (6-pt.): SAE: 3/16 thru 1/2" & Metric: 4mm thru 13mm
- 18-pc. 3/8" Drive Sockets (6-pt.): SAE: 5/16 thru 3/4" & Metric: 8mm thru 19mm



- 12-pc. 1/2" Drive Sockets (6-pt.) SAE: 1/2 thru 7/8" & Metric: 14mm thru 21mm
- 2-pc. Spark Plug Sockets: 5/8, 13/16"
- 2-pc. Reducers: 1/2" Dr. (F) x 3/8" Dr. (M), 3/8" Dr. (F) x 1/4" Dr. (M)
- 3-pc. Extension Bars: 1/4" Dr. x 3", 3/8" Dr. x 3", 1/2" Dr. x 5"
- 3-pc. Ratchet Handles: 1/4" Dr. x 5", 3/8" Dr. x 7", 1/2" x 10"
- 10-pc. Power Nut Drivers: SAE: 1/4 thru 7/16" & Metric: 6mm thru 11mm
- 36-pc. Screwdriver Bits (1"): Flat, Phillips, Star drive, Pozi drive, square & Hex drive
- 1-pc. 1/4" Hex x 1/4" Drive Socket Adapter & 1-pc. 7" Magnetic Bit Screwdriver
- 1-pc. Convertible Carry Case



Order No.	Regular Price	SALE
KP851859	146.15	102.30

HT1099

Pony 3 Piece Aviation Tin Snip Set

- 3-Snips: Right, left and straight
- Molybdenum steel construction offers rugged durability
- Textured, color coded
- Non-slip serrated jaws
- Self-opening action for fast feeding
- Cut's up to 18 gauge steel
- Safety latch
- Plastic Pouch

★★NEW★★



HT2049

Order No.	Regular Price	SALE
SE7039180	19.95	12.50

LANG Snap Ring Plier Kits

QuickSwitch Snap-Ring Pliers Kit

- Internal sizes: 1/8" - 4" (3mm-102mm)
- External sizes: 1/4" - 4" (7mm-102mm)

Snap-Ring Plier with Automatic Lock

- For extra large retaining rings
- Internal sizes: 3-1/2" - 7"
- External sizes: 3-1/2" - 7"



1465

Type	Set Includes	Order No.	Regular Price	SALE
Snap Ring Plier Kit	1/8 - 4" Internal; 1/4 - 4" External Capacity	KL401465	126.75	101.40
Snap Ring Plier Kit with Automatic Lock	3-1/2 - 7" Internal; 3-1/2 - 7" External Capacity with Tips	KL4087	107.10	85.70

HT818

TEKTON Long Reach Pliers

- Round jaws grasp hose ends for easy removal or installation
- Cross-cut teeth grip evenly for twisting, pulling, and pushing
- Long handles reach deep into tight spaces
- Slim, nonslip grips are comfortable and easy to handle
- Made from high-strength chrome vanadium steel



★★NEW★★

Approx. OAL (in.)	Order No.	Regular Price	SALE
10-1/2	KP8534435	13.20	9.25

HT2054

GEARWRENCH 2 Pc. PivotForce™ Compound Action Plier Set

- Unique compound design requires 40% less effort to cut
- Includes 8" Diagonal cutter and Long nose cutter
- Forged steel for superior strength and durability
- Induction hardened cutting edge for long life
- Lifetime warranty



HT001

Order No.	Regular Price	SALE
KP6582124	49.45	40.65

Snap-on BAHCO 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



Size (in.)	2nd Cut			Bastard			Smooth		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4	KL3011430420	7.35	4.80	KL3011430410	5.30	3.45	KL3011430430	7.80	5.05
6	KL3011430620	7.65	4.95	KL3011430610	5.50	3.60	KL3011430630	8.05	5.25
8	KL3011430820	7.95	5.15	KL3011430810	6.40	4.15	KL3011430830	9.40	6.10
10	KL3011431020	10.35	6.75	KL3011431010	7.95	5.15	KL3011431030	11.25	7.30
12	KL3011431220	14.75	9.60	KL3011431210	13.35	8.70	KL3011431230	16.60	10.80

HT916

LANG 3 Pc. Thread Restorer File Set

- Restores damaged external threads, any diameter, right or left hand
- Files are highly tempered for strength and durability
- Pitches included on SAE rethread files (threads per inch): 9, 10, 11, 12, 13, 14, 16, 18, 20, 24, 27, 28, 30
- Pitches included on metric rethread files (millimeters per thread): .75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00

MADE IN THE
USA



Order No.	Regular Price	SALE
KL402573	31.55	25.25

HT1215

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	20.80	15.60

HT1080

FERROD All Purpose 7-in-1 Angle Nose Plier

- Diamond tooth design allows for greater gripping ability
- Angled head design allows for overall greater flexibility
- Ergonomic anti-fatigue comfort grip
- Thumb lock locking mechanism on grip handles
- #6 and #8 Bolt cutter
- Induction hardened cutting edges for hard and soft wire cutting
- Crimps 10-22 AWG terminals and connectors
- Strips 10-14 AWG solid and 12-16 AWG wire

★★NEW★★



Length(in.)	Type	Order No.	Regular Price	SALE
8	Angle Nose Pliers	KV45T20101	46.50	37.95

HT060

GEARWRENCH 7 Pc. Hook and Pick Set

Includes:

- 5" Cotter pin puller
- 4" Hose pick puller
- 4-1/2" Awl
- 3-1/8" Mini full hook
- 3-1/8" 90° Mini hook
- 3-1/8" Straight mini hook
- 3-1/8" Mini offset hook
- Blow molded tray

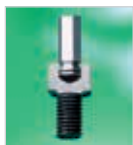


Order No.	Regular Price	SALE
KP6584000D	41.50	34.00

HT009

wiha "MagicRing" L-Key Ball End Drivers Screw Holding Hex Keys

- 9 Pc. Metric Set: 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0mm
- 13 Pc. Inch Set: .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"



No. of Pieces	Style	Order No.	Regular Price	SALE
9	Metric	KN5466990	39.15	31.45
13	MagicRing-Fractional	KN5466991	49.10	39.50

HT832

PRM PRO Pinch Bars

★★NEW★★

- Line-up pry bars are used for moving and adjusting metal or wood

Length (in.)	Order No.	Regular Price	SALE
14	LC715031	8.65	5.60
18	LC717794	9.95	6.45
20	LC715032	11.30	7.30
24	LC717795	13.00	8.45

HT2056

PRM PRO Roll Bars

★★NEW★★

- Rolling head pry bars feature long pointed taper at one end for lining up work and 90 degree angle at the other end for extra leverage

Length (in.)	Order No.	Regular Price	SALE
16	LC715029	8.65	5.60
18	LC715030	10.20	6.65

HT2057

MAYHEW 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

Stock Size (in.)	Length (in.)	Order No.	Regular Price	SALE
1/2	14	KS50468	14.60	10.95
3/4	20	KS50471	23.20	17.40
3/4	24	KS50472	25.65	19.25
5/8	16	KS50469	17.90	13.40
7/8	30	KS50473	33.15	24.85

HT030

SPELLMACO Transfer Punch Set with Indexed Stand

MADE IN THE
USA

- 28 Punch set consists of: (1) each of punch sizes 3/32" thru 1/2" x 64ths plus 17/32"

Order No.	Regular Price	SALE
KH50317	72.10	61.30



HT1027

Eklind 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

MADE IN THE
USA



Arm Length (in.)	Set Includes (in.)	Order No.	Regular Price	SALE
6	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8	KM5050160	53.85	40.40
9	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8	KM5050190	58.70	44.05
6	2, 2.5, 3, 4, 5, 6, 8, 10mm	KM5056168	49.60	37.20
9	2, 2.5, 3, 4, 5, 6, 8, 10mm	KM5056198	53.50	40.15

HT505

HAND TOOLS

Dead Blow Hammers

- Use whenever danger of sparks or marring exists
- Steel shot-filled head combines with cushioned face to add extra force to hammer blows without rebound
- Steel handle encased in a high-impact, rubberized plastic to prevent marring
- Handle has a flanged end for more secure grip (except KY52 series)
- Lifetime warranty against manufacturing defect
- Hi-Vis in KP85 & KP30 series
- JH Williams USA Made



TEKTON

WORLD CLASS QUALITY

Snap-on INDUSTRIAL BRANDS

WILLIAMS

MADE IN THE USA

Approx. Weight	Approx. Head Dia. (in.)	Approx. OAL Length (in.)	TEKTON			Quality Import			Snap-On/Williams		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
10 oz	1	10	-	-	-	KY52CH0	12.75	7.65	-	-	-
16 oz	1-1/2	10	KP8530703	13.40	9.40	KY52CH1	17.70	10.60	KP30JHW16	31.80	23.85
24 oz	1-3/4	12	KP8530704	14.50	10.15	-	-	-	KP30JHW24	36.70	27.55
28 oz	2	12-1/2	-	-	-	KY52CH3	23.60	14.15	-	-	-
32 oz	2	11-1/2	KP8530705	15.75	11.00	-	-	-	KP30JHW32	42.65	32.00
48 oz	2-5/8	11-1/2	KP8530706	20.10	14.05	KY52CH5	32.25	19.35	KP30JHW48	56.60	42.45
56 oz	2-1/2	16	-	-	-	-	-	-	KP30JHW56	76.50	57.40
64 oz	2-5/8	11-1/2	KP8530707	23.35	16.35	-	-	-	-	-	-

HT919

Copper Hammers with Fiberglass Handle

MADE IN THE USA

- 99.9% Pure copper
- Fiberglass handles
- Non-sparking, non-magnetic



Approx. Weight	Approx. Head Dia. (in.)	Approx. Handle Length (in.)	Order No.	Regular Price	SALE
.50 lbs	.88	11	KY5110005	41.55	35.95
1 lbs	1	12	KY5110010	50.95	43.55
1.5 lbs	1-1/4	12	KY5110015	60.35	51.45
2 lbs	1-1/4	13	KY5110020	70.90	60.10
3 lbs	1-1/2	15	KY5110025	92.45	77.90
4 lbs	1-3/4	15	KY5110030	113.95	95.65
5 lbs	1-3/4	15	KY5110035	135.45	113.50
10 lbs	2	21	KY5110040	296.70	251.10

HT1118

Snap-on INDUSTRIAL BRANDS | WILLIAMS Impact Socket Sets Fractional & Metric

- SUPERTORQUE® lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety and durability
- Drive-end features pin retention hole and groove



Drive	Set Includes (in.)	Order No.	Regular Price	SALE
3/8	Deep: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4"	KP3036904	28.85	21.65
3/8	Deep: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	KP3036908	37.05	27.80
3/8	Standard: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4"	KP3036902	23.30	17.50
1/2	Standard: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27mm	KP3037912	70.80	53.10
1/2	Standard: 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 & Clip Rail	KP3037904	76.40	57.30

HT753

CAMILLUS 6-3/4" Carbonitride Titanium Pristine™ Folding Knife

- Features a G10, stainless handle and VG-10 Japanese steel blade
- Carbonitride titanium won't flake, blister, chip or peel and is up to 10x harder than treated steel so the blades stay sharper, longer
- 3" Drop point blade
- Lifetime Warranty



OAL (in.)	Blade Length (in.)	Order No.	Regular Price	SALE
6-3/4	3	LA5718671	57.45	43.10

HT017

CAMILLUS 6-1/2" Carbonitride Titanium Marlin Spike Folding Knife

- G10 Handle, Marlin Spike and VG-10 Japanese steel
- Carbonitride titanium won't flake, blister, chip or peel and is up to 10x harder than untreated steel so the blades stay sharper, longer
- 2.75" Drop point blade
- Locking blade and spike
- Lifetime Warranty



OAL (in.)	Blade Length (in.)	Order No.	Regular Price	SALE
6-1/2	2-3/4	LA5718670	46.80	35.10

HT054

4" Brick Chisel

- Used for scoring, cutting, and trimming brick or masonry
- Alloy steel for hardness and durability
- Precision ground cutting edge
- Rust preventative coating applied to steel for additional protection



NEW

Cut (in.)	Hex Stock (in.)	OAL (in.)	Order No.	Regular Price	SALE
4	7/8	9	SE7031307	9.95	5.95

HT2045

HAND TOOLS

Snap-on
INDUSTRIAL BRANDS

WILLIAMS 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



30001



B52EHFB



S52EHA

Drive (in.)	Approx. OAL (in.)	Head Type	Feature	Handle	Made In	Order No.	Regular Price	SALE
1/4	5-1/4	Narrow Pear	36 Tooth Quick Release	Smooth	Global	KP3030001	21.75	16.30
1/4	5-1/4	Sealed Narrow Head Design	36 Tooth Gear w/ 10° of Engagement	Smooth	USA	KP30M52EHA	29.35	22.00
1/4	7	Flex Head	36 Tooth Gear w/ 10° of Engagement	Smooth	USA	KP30M52EHFA	39.70	29.80
3/8	7-3/4	Narrow Pear	36 Tooth Quick Release	Finger Fit	Global	KP3031001	26.40	19.80
3/8	9-3/4	Narrow Pear	36 Tooth Quick Release	Smooth	USA	KP30B52EHFB	62.30	46.70
3/8	10-1/4	Sealed Narrow Head Design	36 Tooth Gear w/ 10° of Engagement	Plain	USA	KP30B52EHLA	46.25	34.70
1/2	9-7/8	Narrow Pear	Ultra Fine 60 Tooth w/ 6° Tooth Action	Finger Fit	Global	KP3032011	45.20	33.90
1/2	9-7/8	Narrow Pear	40 Tooth Quick Release	Finger Fit	Global	KP3032001	41.80	31.35
1/2	10-1/4	Sealed Narrow Head Design	36 Tooth Gear w/ 10° of Engagement	Plain	USA	KP30S52EHA	58.85	44.15
1/2	14-1/4	Flex Head	36 Tooth Gear w/ 10° of Engagement	Smooth	USA	KP30S52EHFA	80.10	60.05
1/2	15	Sealed Narrow Head Design	36 Tooth Gear w/ 10° of Engagement	Smooth	USA	KP30SB52EHLA	52.90	39.65
3/4	20-1/8	Narrow Pear	24 Tooth Gear w/ 15° of Engagement	Smooth Comfort Grip	USA	KP30H51B	145.85	109.40

HT864

Snap-on
INDUSTRIAL BRANDS

CDI TORQUE PRODUCTS

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.

MADE IN THE
USA



Torque Range	Increments	Order No.	Regular Price	SALE
3 - 15 in/lbs	.2 in/lbs	KL45151SM	233.60	175.20
5 - 40 in/lbs	.5 in/lbs	KL45401SM	239.20	179.40
10 - 80 cNm	1 cNm	KL4561NSM	228.05	171.05
20 - 100 in/oz	1 in/oz	KL4561SM	228.05	171.05
40 - 200 cNm	2 cNm	KL45151NSM	233.60	175.20
50 - 450 cNm	5 cNm	KL45401NSM	239.20	179.40

HT1075

Snap-on
INDUSTRIAL BRANDS

WILLIAMS

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

MADE IN THE
USA



Type - Adjustable Hook Spanner Wrench						
Capacity Range For Dia. (in.)	Thickness (in.)	Depth (in.)	Approx. Length (in.)	Order No.	Regular Price	SALE
3/4 to 2	11/32	1/8	6-3/8	KP30471	33.45	25.10
1-1/4 to 3	13/32	5/32	8-1/8	KP30472	37.85	28.40
2 to 4-3/4	15/32	3/16	11-3/8	KP30474	52.85	39.65
4-1/2 to 6-1/4	15/32	1/4	12-1/8	KP30474A	55.90	41.90
6-1/8 to 8-3/4	15/32	5/16	13-3/4	KP30474B	67.35	50.50

Type - Adjustable Pin Spanner Wrench						
Capacity Range For Dia. (in.)	Thickness (in.)	Depth (in.)	Approx. Length (in.)	Order No.	Regular Price	SALE
3/4 to 2	11/32	1/8	6	KP300471	35.30	26.45
3/4 to 2	11/32	3/16	6-1/8	KP300471A	35.30	26.45
1-1/4 to 3	13/32	3/16	7-1/2	KP300472	39.90	29.90
1-1/4 to 3	13/32	1/4	7-1/2	KP300472A	39.90	29.90
2 to 4-3/4	15/32	1/4	10-1/2	KP300474	54.75	41.05
4-1/2 to 6-1/4	15/32	3/8	10-1/2	KP300474A	58.50	43.90

HT1062

CHAN NEL LOCK

Oil Filter and PVC Pliers

- High carbon steel construction
- PermaLock fastener eliminates nut and bolt failure
- Right angle teeth help ensure a strong grip
- Channellock Blue® comfort grip handles



MADE IN THE
USA

OAL (in.)	For Oil Filter	Order No.	Regular Price	SALE
9	2-5/8 thru 3-3/4	LB50209	18.20	15.45
12	2-3/4 thru 4-1/4	LB50212	25.15	21.40
15-1/2	2-1/2 thru 5-1/2	LB50215	30.15	25.65

HT1127

Preferred

Quick Snap Adjustable Wrench

- Micro adjusting - the moving pad allows the knurl to adjust jaw opening
- Dual teeth - fits SAE and Metric fastener specifications
- Quick release jaw - allows for fast setting with one easy pull
- Greater jaw capacity

★★NEW★★



OAL (in.)	Finish	Order No.	Regular Price	SALE
8	Matte	KV45T07001	37.20	30.40

HT2055

TEKTON. MAXTORQ™ Combination Wrench Sets

SAE & Metric

- 30 Pc. Range to choose from
- 15° Angled MaxTorq™ V-Cut open end design grips fastener head on four sides, for more torque
- Long pattern, thin panel wrenches for extra leverage and long reach
- Drop forged, heat treated high carbon steel
- Polished, corrosion-resistant, triple-chrome-plated finish
- SAE Size Range: 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"
- Metric Size Range: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 24, 27, 30, 32mm
- Complete with roll-up storage pouch



No. of Pieces Per Set	Type	Order No.	Regular Price	SALE
16	Metric	KP851938	74.30	52.00
14	Fractional	KP851937	74.30	52.00

HT1077

WMH Utility Workshop Vises

- Heavy duty 30,000 PSI casting
- Large anvil work surface
- 180° Swivel base with lockdown
- Lifetime Warranty



Size (in.)	Jaw Opening (in.)	Jaw Depth (in.)	Pipe Capacity	Weight	Order No.	Regular Price	SALE
5-1/2	5	7/16	1/8 to 2-1/2	29.2 lbs	HZ40675	154.30	125.75
6-1/2	5-1/2	7/16	1/8 to 2-1/2	41.85 lbs	HZ40676	209.80	171.45
6-1/4	6	1/2	1/8 to 3	64.1 lbs	HZ40656HD	287.50	228.60
8	7-1/2	5/8	1/8 to 3	86.2 lbs	HZ40648HD	398.50	321.45

WH310

WMH Mechanics Vises

- Heavy duty 30,000 PSI castings for long life and added strength
- Large anvil work surface
- Swivel base rotates 360° and has double lockdowns ensuring maximum stability
- Lifetime Warranty



Jaw Width (in.)	Jaw Opening (in.)	Jaw Depth (in.)	Pipe Capacity	Weight	Order No.	Regular Price	SALE
4	4-1/2	3-7/16	1/4 to 2	36.45 lbs	HZ40744	220.90	178.60
5	5-1/4	3-3/4	1/4 to 2-1/2	52.8 lbs	HZ40745	309.70	250.00
6	5-3/4	4-1/8	1/4 to 3-1/2	69.35 lbs	HZ40746	398.50	321.45

WH311

WMH Shop Vises

- Designed for general duty use
- Instant-Action™ vise design ensures immediate engagement of the nut and spindle screw
- Vise rotates 360°
- Rubber pinch point safety guards
- Heavy duty 25,000 PSI castings
- Lifetime Warranty



Size (in.)	Jaw Width (in.)	Jaw Opening (in.)	Jaw Height (in.)	Weight	Order No.	Regular Price	SALE
4	4	4	2-3/4	23.25 lbs	HZ40WS4	154.30	115.75
5	5	5	3	30.05 lbs	HZ40WS5	176.50	138.60
6	6	6	3-1/2	45.65 lbs	HZ40WS6	265.30	204.30

WH420

WMH Workshop Vises

- Made from high strength steel and iron components
- Diamond serrated jaws
- Single lock down
- Built in anvil
- 270° Swivel base



Jaw Width (in.)	Jaw Opening (in.)	Jaw Depth (in.)	Order No.	Regular Price	SALE
3-1/2	3-3/4	2	HZ4050503SP	68.85	19.95
4-1/2	4	2-3/8	HZ4050504SP	72.70	29.95

WH467

WMH High Visibility Safety Vises

- 30,000 PSI Ductile Iron Body for Rugged use and Extended Life
- Grease is permanently Sealed in for trouble-free service
- Hi-Visibility Yellow conforms to OSHA standards
- Hardened steel pipe jaws



Jaw Width (in.)	Jaw Opening (in.)	Weight	Pipe Capacity (in.)	Order No.	Regular Price	SALE
5	5-1/4	49.4 lbs	1/4 to 2-1/2	HZ401550	320.80	260.00
6	5-3/4	63.65 lbs	1/4 to 3-1/2	HZ401560	409.60	340.00

WH312

WMH Combination Pipe & Bench Vises

- 60,000 PSI tensile ductile iron body parts
- Straight line design
- Alloy steel slide bar adds precision and strength
- Hardened steel top and pipe jaws
- Enclosed construction keeps lubrication in, contaminants out
- 360° Swivel base
- Lifetime Warranty



Size (in.)	Jaw Width (in.)	Jaw Opening (in.)	Pipe Capacity (in.)	Jaw Height (in.)	Weight	Order No.	Regular Price	SALE
3-1/2	3-1/2	5	1/8 to 2-1/2	1	50.5 lbs	HZ40C0	842.50	707.15
4-1/2	4-1/2	6	1/8 to 3-1/2	1-1/4	78.05 lbs	HZ40C1	1175.50	1021.45
5	5	7	1/8 to 4-1/2	1	100 lbs	HZ40C2	1575.10	1321.45
6	6	9	1/4 to 6	1-1/4	204 lbs	HZ40C3	2252.20	1942.90

WH419

WMH Standard & Angle Drill Press Vises

- Precision ground on sides and front side face. This permits additional mounting positions for drilling, tapping, or reaming.
- Body and sides are ground perfectly parallel
- Sturdy main casting is 30% heavier than conventional models



Model No.	Size (in.)	Jaw Opening (in.)	Jaw Width (in.)	Jaw Depth (in.)	Weight	Order No.	Regular Price	SALE
25	2-1/2	2-9/16	2-1/2	1-1/2	6.2 lbs	HZ4025	77.70	67.15
25A	2-1/2	2-1/2	2-1/2	1-1/2	12 lbs	HZ4025A	88.80	72.90
30	3	3-1/8	3	1-3/4	10 lbs	HZ4030	91.05	78.60
30A	3-1/8	3-1/8	3-1/8	1-3/4	17 lbs	HZ4030A	135.45	110.00

WH314

WMH Cam Action Drill Press Vises

- Slide action on the center bar sets the jaw in position
- Heavy cast base designed for through hole drilling applications
- One side ground vise has extensions on one side
- Ground sides vise allows you to work form the top and sides without resetting the workpiece

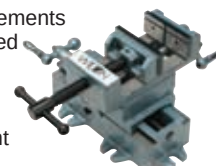


Size (in.)	Jaw Height (in.)	Jaw Opening (in.)	Weight	Order No.	Regular Price	SALE
4	1-5/16	4-11/16	18 lbs	HZ401204	209.80	167.15
6	1-13/16	6-3/16	35.4 lbs	HZ401206	343.00	292.90
8	2	8-3/16	53.35 lbs	HZ401208	454.00	364.30

WH315

WMH Cross Slide Drill Press Vises

- Accurately moves your workpiece in horizontal and longitudinal for precise positioning
- Cast side knobs accurately dial in .1mm increments
- Hardened V Grooved Jaws hold round shaped objects both vertically and horizontally
- Durable construction with fine grain cast iron castings
- Black oxide coated screw provides consistent clamping pressure
- Durable base has 5 bolt lugs for easy mounting on a machine table

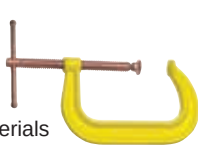


Model No.	Size (in.)	Jaw Opening (in.)	Jaw Width (in.)	Jaw Depth (in.)	Weight	Order No.	Regular Price	SALE
CS3	3	3	3	1-1/8	16 lbs	HZ4011693	154.30	110.00
CS4	4	4	4	1-3/8	20 lbs	HZ4011694	187.60	138.60
CS5	5	5	5	1-1/2	45 lbs	HZ4011695	287.50	221.45
CS6	6	6	6	2	59 lbs	HZ4011696	387.40	300.00
CS8	8	8	8	2	77 lbs	HZ4011698	664.90	514.50

WH433

WILTON Spark-Duty Drop Forged Hi-Vis C-Clamps

- Ideal for steel fabrication and industrial welding
- V grooved anvil allows secure holding of all materials including rounds, squares and flats
- Copper plated spindle and Perma-pad® for resistance to welding spatter and corrosion, and are replaceable
- Drop forged, regular duty with extra deep throat
- Lifetime Warranty

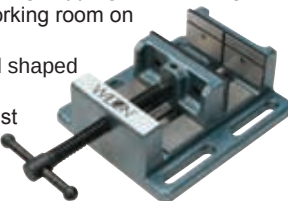


Max. Opening (in.)	Throat Depth (in.)	Spindle Dia. (in.)	Clamping Pressure	Order No.	Regular Price	SALE
10	5-3/8	7/8	8000 lbs	SF30410CS	73.30	65.00
12	5-3/4	7/8	9300 lbs	SF30412CS	121.00	101.25
2	2	1/2	3500 lbs	SF30402CS	13.35	11.70
3	2-3/8	5/8	3500 lbs	SF30403CS	18.90	16.25
4	3-3/4	3/4	6200 lbs	SF30404CS	26.65	23.40
6	3-5/8	3/4	6600 lbs	SF30406CS	41.10	35.50
8	4-1/2	3/4	6900 lbs	SF30408CS	52.20	45.35

WH636

WILTON Low Profile Drill Press Vises

- Designed for applications including drilling, tapping and reaming
- Low profile clearance for increased working room on machine table
- Hardened V Grooved Jaws hold round shaped objects both vertically and horizontally
- Durable construction with fine grain cast iron castings and hardened steel vise jaws
- Black oxide coated ACME threaded screw provides consistent clamping pressure
- Highly accurate with beds and bases parallel to $\pm .001"$
- Base has four 1/2" shoulder slots for quick, easy positioning on the machine table



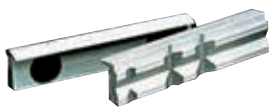
Model No.	Size (in.)	Jaw Opening (in.)	Jaw Width (in.)	Jaw Depth (in.)	Weight	Order No.	Regular Price	SALE
LP3	3	3	3	1-1/8	8 lbs	HZ4011743	44.40	37.15
LP4	4	4	4	1-1/2	12 lbs	HZ4011744	77.70	58.60
LP6	6	6	6	2	30 lbs	HZ4011746	187.60	138.60
LP8	8	8	8	2	50 lbs	HZ4011748	287.50	218.60

WH434

WILTON Magnefix Vise Jaw Caps

Prism Magnefix Jaw Caps:

- Includes both horizontal v-grooves and vertical v-grooves for marking out and center punching
- Ideal for light tapping, thread cutting, and clamping round objects



Rubber Magnefix Jaw Caps:

- Constructed of aluminum and synthetic rubber
- Rubber faces conform to the workpiece and grip firmly without slipping

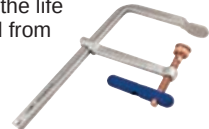


For Use With	1-Pair Prism Face Vise Jaw Caps			1-Pair Rubber Face Vise Jaw Caps		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4	HZ40P4	47.75	39.50	HZ40R4	43.30	36.45
4-1/2	HZ40P45	48.85	40.75	HZ40R45	45.55	37.90
5	HZ40P5	49.95	42.90	HZ40R5	46.65	39.30
6	HZ40P6	52.20	45.75	HZ40R6	49.95	42.90

WH421

WILTON Spark-Duty™ Deep Reach Series Copper F-Clamps

- Increased Throat Depth provides a deeper reach for unique projects
- Spark-Duty™ Copper Plated Spindle extends the life of the clamp by protecting the spindle and pad from welding spatter
- Quick Twist Pads simple and fast replaceable pads in v-groove or serrated surfaces
- Ergonomic Wilton-Grip® Anti-Fatigue Grip provides comfort during repetitive clamping



Opening Cap. (in.)	Throat Depth (in.)	Clamping Force	Order No.	Regular Price	SALE
12	8	1770 lbs	HZ4186700	129.90	109.10
24	8	1770 lbs	HZ4186710	199.80	165.75

WH516

WILTON Classic Series Regular Duty F-Clamps

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



Opening Cap (in.)	Throat Depth (in.)	Clamp Force	Order No.	Regular Price	SALE
8	4-3/4	1800 lbs	HZ4186200	57.75	48.20
12	5-1/2	1800 lbs	HZ4186210	63.30	55.25
18	4-3/4	1800 lbs	HZ4186220	74.40	62.35

WH650

WILTON Unbreakable HI-VIS Sledge Hammers

- Unbreakable™ Technology steel core eliminates breaking during strikes
- No-slip ergonomic handle
- Safety plate secures head to handle
- Lanyard hole
- Flat head conveniently designed to stand upright for easy reach
- Anti-vibe neck
- Available in 30 or 46 Rockwell hardness



Head Size (lbs)	Handle Length (in.)	Hardness Rockwell "C" Scale	Order No.	Regular Price	SALE
2.5	12	30	HZ4140212	44.40	43.95
2.5	12	46	HZ4120212	44.40	43.95
4	16	30	HZ4140416	61.05	58.10
4	16	46	HZ4120416	61.05	58.10
6	36	30	HZ4140636	88.80	87.85
6	36	46	HZ4120636	88.80	87.85
8	36	30	HZ4140836	105.45	102.00
8	36	46	HZ4120836	103.25	102.00
10	36	30	HZ4141036	118.80	119.00
10	36	46	HZ4121036	121.00	119.00
12	36	30	HZ4141236	135.45	133.15
12	36	46	HZ4121236	135.45	133.20
14	36	30	HZ4141436	146.55	144.50
14	36	46	HZ4121436	146.55	144.50
20	36	46	HZ4122036	203.15	202.60

HT1061

BASH 14" BASH Ball Pein Hammer, 24 oz. Head

- Safety Plate prevents head from dislodging
- Anti-Vibe Neck with tapered design eliminates vibration from striking
- No-Slip Grip made from vulcanized rubber ensures a secure hold
- Unbreakable® Handle Technology - Steel core eliminates breaking during overstrikes
- Lifetime Warranty



Order No.	Regular Price	SALE
HZ4132414	41.10	39.70

HT2028

3M 3M™ Aura™ Particulate Respirator 9210+, N95

- Designed to direct exhaled air away from which reduces eyewear fogging
- Comfortable braided headband
- Curved low profile design allows more room for eyewear
- Soft inner materials
- Adjustable nose clip
- Innovative chin tab designed for ease of positioning, donning & adjustment



Min. Box Qty.	Order No.	Regular Price	SALE PRICE EACH
20	KB3537192	1.90	1.45

PS011

3M 3M™ Skull Screws™ Earplugs P1310

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



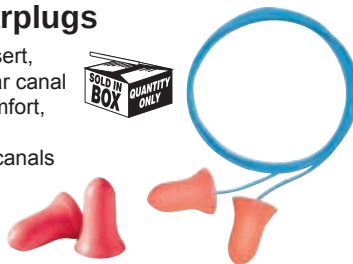
PS870

NRR	Style	Min. Qty. Per Box	Order No.	Regular Price	SALE PRICE EACH
32 dB	Corded Earplug	120	KB3592952	0.95	0.70

Sold in Box Only

Honeywell Disposable Earplugs

- Contoured shaped is easier to insert, resists tendency to back out of ear canal
- Polyurethane foam enhances comfort, especially for long term wear
- Ideal for people with smaller ear canals
- Smooth, soil-resistant closed cell foam skin prevents dirt build-up



Trade Name - Max					
NRR	Style	Min. Box Qty. Sold	Order No.	Regular Price	SALE PRICE EACH
33	Corded Earplug	100	LF50MAX30	0.35	0.30
33	Uncorded Earplug	200	LF50MAX1	0.20	0.15

Compliance: ANSI S3.19-1974

PS176

Honeywell High Performance® Headgear & Faceshields

- Crowns made of advanced, heat-resistant Noryl® material
- Headgear has tough, 3C ratchet suspension
- Faceshield headgear has quick change system for safe, rapid face protection transfer
- Faceshields are made from durable .060" thick propionate
- Meets ANSI Z87.1 standards and certified to CSA Z94.3



F400



F6400

Style	Order No.	Regular Price	SALE
Headgear	LF50F400	24.70	19.75
Headgear For Use with Safety Helmet	LF50F6400	20.95	16.75
9-3/4" x 19" Faceshield	LF504199CL	12.35	9.90
8" x 16-1/2" Faceshield	LF504178CL	7.55	6.05

PS889



Safety Glasses & Magnifiers

Exceeds ANSI Z87 .1-2003 High Impact Requirements

Avante

- Lightweight sport styling
- Built in rubber nose pad
- Vented frame
- 99% Effective against UV rays
- Black frame



V2 Reader

- Reader lens is out of user's direct line of sight
- 5 Different sizes of magnification available, clear lens
- 9.75 Base curved lens provides full side protection
- Black frame



Magnifier



Style - Avante			
Lens	Order No.	Regular Price	SALE
Amber	KB54SB4530D	5.80	4.05
Blue Mirror	KB54SB4575D	7.40	5.20
Clear	KB54SB4510D	5.25	3.65
Gray	KB54SB4520D	5.80	4.05
Infinity Blue	KB54SB4560D	5.80	4.05
Silver Mirror	KB54SB4570D	7.40	5.20

Style - V2 Reader Magnifiers				
Lens	Magnification	Order No.	Regular Price	SALE
Clear	+1.00	KB54SB1810R10	11.20	7.85
Clear	+1.50	KB54SB1810R15	11.20	7.85
Clear	+2.00	KB54SB1810R20	11.20	7.85
Clear	+2.50	KB54SB1810R25	11.20	7.85
Clear	+3.00	KB54SB1810R30	11.20	7.85

PS159

Honeywell Instinct™

- Provides high-performance protection with a sleek design and lightweight frame, featuring a variety of adjustability features for a comfortable, customized fit
- Equipped with a dual, 7-base wraparound lens for uncompromised peripheral vision, with a fully integrated, cushioned browguard to comfortably diffuse and deflect impact energy



Lens	Frame	Order No.	Regular Price	SALE
Blue Mirror	Matte Black	LF50S2823	12.60	10.10
Clear Anti-Fog	Matte Black	LF50S2820XP	10.80	8.65
Gray Anti-Fog	Matte Black	LF50S2821XP	11.80	9.45

PS923



Nuisance Dust Mask

- Adjustable metal nose piece shapes easily to face
- Single strap elastic head band
- Reduces the irritating effects from non-toxic particles
- Min. 50 per box

★★NEW★★

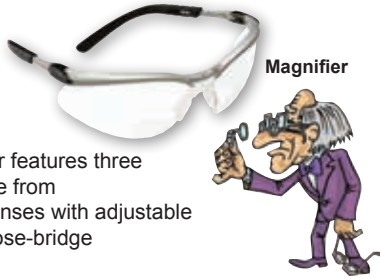


Order No.	Regular Price	SALE PRICE EACH
LF702985	0.15	0.10

PS951

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



Lens	Frame	Magnification	Order No.	Regular Price	SALE
Clear Anti-Fog	Silver	+1.50	KB3511374	15.50	11.65
Clear Anti-Fog	Silver	+2.00	KB3511375	15.50	11.65
Clear Anti-Fog	Silver	+2.50	KB3511376	15.50	11.65

PS701

PRM PRO Protective Blue Vinyl Aprons

- High Quality 6mil virgin vinyl apron
- Resistance to acids, alkalis, solvents, chemical oils, fats, grease, and salts
- Inexpensive way to protect body and clothing
- Sold 12 Per Pack

NEW



Size	Neck Hold	Order No.	Regular Price	SALE
35" x 48"	Die Cut	KB38Z1000	15.00	9.75
35" x 54"	String	KB38Z1005	15.00	9.75

While Supplies Last

PS953

PRM PRO Universal Safety Vest

- Hi-Vis Lime mesh with silver strips
- Velcro closure
- One size fits most

NEW



Order No.	Regular Price	SALE
KB38SV8099	6.40	4.15

PS952

N-Ferno® Warming Series Head & Face Cold Weather Protection

N-Ferno® Winter Liner 6850/6852 Econo 2-Layer Poly/Fleece

- Regular (6850)/ Shoulder (6852) Length
- Shell: 100% polyester with PU coating
- Lining: 100% poly fleece
- Hook & loop or chin strap
- Elastic gap control
- Water repellent

N-Ferno® Winter Liner 6821 Balaclava

- Long length
- Single wash FR treated
- Polyester fleece



Style	Order No.	Regular Price	SALE
N-Ferno Fleece Balaclava	LF656821	6.60	4.95
Regular	LF656850	7.20	5.40
Shoulder	LF656852	10.90	8.20

PS437

Disposable Protective Coveralls

Microporous film technology

- Breathable advantage
- Protection against dry particulate and light liquid sprays
- Anti-static
- Meets ASTM 1670 for protection against blood born pathogens
- Meets ANSI sizing standards for wide range of motion
- Color: white

NEW

Proprietary SMMMS technology

- Three layers of melt blown polypropylene
- Breathable with protection against dry particulate, light liquid sprays and splashes
- Anti-static
- Color: white

Case Qty. 25



Style - Collar, Zipper Front, Elastic Wrist & Ankle						
Size	Microporous			SMMMS		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Large	KP883602L	107.50	86.00	KP88C3802L	98.40	78.70
X-Large	KP883602XL	107.50	86.00	-	-	-
2X-Large	KP8836022XL	113.95	91.15	KP88C3802XXL	104.85	83.90
3X-Large	KP8836023XL	120.40	96.30	-	-	-

Style - Collar, Zipper Front, Open Wrist						
Size	Microporous			SMMMS		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Large	KP883600L	103.20	82.55	KP88C3800L	96.75	77.40
X-Large	KP883600XL	103.20	82.55	KP88C3800XL	96.75	77.40
2X-Large	KP8836002XL	109.65	87.70	KP88C3800XXL	103.20	82.55
3X-Large	KP8836003XL	116.10	92.90	-	-	-

Style - Hood, Zipper Front, Elastic Wrist & Ankle						
Size	Microporous			SMMMS		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Large	KP883606L	111.80	89.45	KP88C3806L	100.55	80.45
X-Large	KP883606XL	111.80	89.45	-	-	-
2X-Large	KP8836062XL	118.25	94.60	KP88C3806XXL	107.00	85.60
3X-Large	KP8836063XL	124.70	99.75	-	-	-

Style - Hood, Zipper Front, Elastic Wrist Attached Boots						
Size	Microporous			SMMMS		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Large	KP883609L	120.40	96.30	-	-	-
X-Large	KP883609XL	120.40	96.30	-	-	-
2X-Large	KP8836092XL	126.85	101.50	KP88C3809XXL	115.60	92.50
3X-Large	KP8836093XL	133.30	106.65	KP88C3809XXXL	119.90	95.90

PS954

N-Ferno® 6823 Wind-Proof Hinged Balaclava

- Fleece with wind-protectant fabric at the most vulnerable places protects against a variety of elements
- Unique hinged design
- 3-panel construction with flat lock stitching for a comfortable "just made for you" fit
- Reflective accents to help keep you safe and seen
- Long length



Order No.	Regular Price	SALE
LF656823	18.55	13.90

PS880

PRM PRO Welder's Gloves

- Grain cowhide mig/tig welder
- Gunn pattern, wing thumb, 4-1/2" split leather gauntlet cuff
- Sewn with DuPont™ Kevlar® thread
- Ideal for welding and heat applications

★★NEW★★



Size	Order No.	Regular Price	SALE 1	SALE 12	SALE 144
Medium	KB38500M	13.90	9.04	8.34	8.06
Large	KB38500L	13.90	9.04	8.34	8.06

PS772

PRM PRO Cotton Dotted Canvas Glove

- Woven cotton canvas with PVC dots
- Clute pattern and straight thumb
- Ideal for general purpose applications, keep hands clean and cool

★★NEW★★



Size	Order No.	Regular Price	SALE 1	SALE 12	SALE 144
Large	KB38300L	1.30	0.85	0.78	0.75

PS786

PRM PRO Standard Cotton Jersey Gloves

- Clute pattern
- General purpose
- Breathable material
- Color: brown

★★NEW★★



Size	Order No.	Regular Price	SALE 1	SALE 12	SALE 144
Large	KB38350L	1.05	0.68	0.63	0.61

PS798

MEMPHIS Multi-Purpose Work Gloves

- Leather palm, gun pattern with safety cuff
- Leather fingertips
- Cotton lined
- Elastic strap
- 2-1/2" Rubberized safety cuff



Order No.	Regular Price	SALE 1	SALE 12	SALE 144
KB51TC5	5.10	3.32	3.06	2.96

PS629

MEMPHIS 3601 Goatskin Driver Gloves

- Grain kid goatskin
- Exceptional durability
- Greater softness for sense of touch
- Excellent tensile strength



Size	Order No.	Regular Price	SALE 1	SALE 12	SALE 144
Medium	KB513601M	11.70	7.61	7.02	6.79
Large	KB513601L	11.70	7.61	7.02	6.79
X-Large	KB513601XL	12.40	8.06	7.44	7.19

PS621

Honeywell WorkEasy® Cut-Resistant Gloves



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



Size	Order No.	Regular Price	SALE 1	SALE 12	SALE 144
Medium	KB65WE300M	10.40	8.32	8.05	8.00
Large	KB65WE300L	10.40	8.32	8.05	8.00
X-Large	KB65WE300XL	10.40	8.32	8.05	8.00

PS054

SAS Back Support

- Made of lightweight, cool, washable polyester
- Four plastic stays for flexible, contoured support
- Tapered design promotes better movement for proper back support
- Two sets of dual elastic stretch-bands for maximum, adjustable support

★★NEW★★



7161

7261

Size	Back Support			Hi-Vis Back Support		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Small (28"-32")	LF707161	11.90	8.35	LF707261	16.15	11.30
Medium (32"-38")	LF707162	11.90	8.35	LF707262	16.15	11.30
Large (38"-47")	LF707163	11.90	8.35	LF707263	16.15	11.30
X-Large (46"-56")	LF707164	11.90	8.35	LF707264	16.15	11.30
2X-Large (54"-58")	LF707165	11.90	8.35	LF707265	16.15	11.30

PS935



Deluxe Knee Pads

7102

Hard Cap:

- Plastic cap over tough nylon fabric with soft foam rubber core
- Water and abrasion resistant
- Easy-to-use hook-and-loop closures

★★NEW★★

Gel:

- Super-thick 1/2" high density closed-cell foam
- Large, low-profile cap designed to prevent "roll over"
- Anti-compression air injected gel
- Easy-to-use hook-and-loop closures

7105



Style	Order No.	Regular Price	SALE
Hard Cap	LF707102	14.70	10.30
Gel	LF707105	18.95	13.25

PS939

Honeywell Hard Hats Cap & Brim Style

- Smooth crown design contains an advanced suspension with eight load bearing points to stabilize and balance the hard hat
- Full brim adds an extra margin of protection from hazardous sun rays and hazardous substances falling



Suspension	Color	Style	Order No.	Regular Price	SALE
8 Pt. Ratchet	Yellow	Cap	LF50E2RW2	22.05	17.65
8 Pt. Ratchet	White	Cap	LF50E2RW1	22.05	17.65
8 Pt. Ratchet	White	Full Brim	LF50E1RW1	25.25	20.20

PS910

DAZOR Circline Inspection Magnifiers **MADE IN THE USA**

- Circline magnifier produces 22-watts of diffuse light for shadow free viewing
- Dazor floating arm stays in position with touch of finger—doesn't bounce like spring arm models
- Clamp mounts to tables, workbenches, etc.
- Flicker free instant on/off
- 9' Oil resistant grounded cord
- UL listed
- Color: black



Diopter	Magnification	Reach (in.)	Mount	Order No.	Regular Price	SALE
3	+1.75	28	Desk	KC50MC100	387.85	310.30
3	+1.75	28	Clamp	KC50MC150	331.30	265.05
3	+1.75	42	Clamp	KC50MC200	331.30	265.05

PS806

TORK 2-Ply Bath Tissue

*****NEW****

- Easy start tail seal to prevent waste
- Each roll is elegantly wrapped ensuring sanitary protection while delivering quality, value, and performance
- Bath tissue has rapid breakup, ideal for all plumbing systems
- This product contains 20% post-consumer fiber providing an environmental benefit and a positive image builder
- EPA Compliant for reduced environmental impact
- Dispenser part # **LM4856TR**



Pack	Description	Order No.	Regular Price	SALE
460 sheets x 48 rolls	Premium 2 Ply Ultra Soft Embossed	LM48TM6512	50.80	40.65
500 sheets x 96 rolls	Universal 2 Ply Soft Embossed	LM48TM1616S	82.40	65.90

PS958

TORK Advanced Intuition / Matic Towel Rolls

- Developed for easy maintenance in high traffic washrooms
- This towel saves time and controls consumption by one-at-a-time sheet dispensing
- Embossing enhances hand feel and maximum absorbency, allowing fewer towels used per hand dry
- Provides 884 towels/roll for the Tork Matic, 1,050 towels/roll with Intuition 8" setting to meet high capacity needs
- Single Ply
- Dispenser part # **LM485510282** or **LM485511281**



Size	Color	Order No.	Regular Price	SALE
7.8" x 9" x 7.7"	Natural	LM48290088	71.40	57.10
7.8" x 9" x 7.7"	White	LM48290089	86.20	68.95

PS957

S Se-Kure Domes & Mirrors, Inc. **Convex Mirrors**

- 20% Brighter Than Glass
- Hardware Included
- 120° Viewing Angle
- Less Distortion Longer Lasting

*****NEW****

MADE IN THE USA



Style - Indoor Convex Mirrors				
Dia. (in.)	Mount Included	Order No.	Regular Price	SALE
18	Single Z Bracket	KB2520010	52.30	39.20
26	1 Telescoping Bracket	KB2520025	94.00	70.50
26	Single Z Bracket	KB2520020	86.40	64.75
36	1 Telescoping Bracket	KB2520040	169.20	126.90

Style - Outdoor Galvanized Metal Back Convex Mirrors				
Dia. (in.)	Mount Included	Order No.	Regular Price	SALE
18	2 Telescoping Brackets	KB2520230	111.65	83.70
26	3 Telescoping Brackets	KB2520250	180.40	133.50
36	3 Telescoping Brackets	KB2520280	286.15	214.60

Style - Outdoor Plastic Back Convex Mirrors				
Dia. (in.)	Mount Included	Order No.	Regular Price	SALE
18	2 Telescoping Brackets	KB2520720	84.05	63.00
26	3 Telescoping Brackets	KB2520740	157.45	117.65
36	3 Telescoping Brackets	KB2520770	236.90	177.65

Ships from Michigan

PS946

OIL-DRI Universal Socks

4 ft., 6 ft., & 10 ft.

- Each sock is filled with recycled cellulose
- Use socks at the base of machinery or around drums
- Use socks for non-aggressive leak protection



Size	Box Quantity	Order No.	Regular Price	SALE
3" D x 4' L	12	LD60L90790	35.10	28.10
3" D x 4' L	40	LD60L90890	104.35	83.50
3" D x 6' L	18	LD60L90934	80.55	64.45
3" D x 10' L	10	LD60L90936	74.45	59.55

PS760

Kimberly-Clark Professional WYPALL X80 towels

- Designed to feel like cloth and work even better
- Our thickest and strongest wiper
- Absorbs faster than rags and shop towels



Description	Pack	Order No.	Regular Price	SALE
WypAll X80 Towel, Bag Box	160	LM5541041	38.70	30.95
WypAll X80 Towels, Jumbo Roll	475	LM5541043	91.65	73.30
WypAll X80 Towels, Pop-Up	80	LM5505930	22.00	17.60

PS347

STENGER 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



Size	Color	Order No.	Regular Price	SALE
6' x 6'	Olive Drab Cotton	RT5850166	126.10	107.20
6' x 6'	Orange Transparent Vinyl	RT5853866	110.90	94.25
6' x 8'	Olive Drab Cotton	RT5850186	152.30	129.45
6' x 8'	Orange Transparent Vinyl	RT5853886	134.05	113.95

PS675

ELECTRIX 22" Reach LED Task Lamp With Clamp-On Base

- 22" Dust free vinyl coated industrial strength flexible gooseneck
- 3 x 3" Compact metal construction shade
- 7 Watt LED is equivalent to 50 watt incandescent
- 9' Grounded cord and plug
- 25,000 Hour life
- Color: gray

★★NEW★★

Order No.	Regular Price	SALE
KC513001	149.50	119.60



PS956

BAYCO Xtreme Lumens™ Multi-Purpose Rechargeable Work Light

- **Bulb:** LED
- **Run time:** 4-1/2 hrs High, 12-1/2 hrs Low
- **Lumens:** 600 High, 225 Low
- **Battery:** Rechargeable Lithium-ion
- **Features:** X-treme lumens™ design, three integrated magnets for hands free use, magnetic hook, IP-X4 waterproof, AC and DC charger included, 6 hour charge time
- 1 Year Limited Warranty

★★NEW★★

Order No.	Regular Price	SALE
KE58SL2168B	67.50	50.65

NIGHTSTICK



PS955

BAYCO Heavy Duty Retractable Cord Reels

3-Tap Plug

- 30 Ft. 14/3 cord, (SJTW)
- Heavy-duty metal retractable reel
- Polarized plug with three 13amp grounded receptacles
- Brackets for wall or ceiling mounting (included)
- LED power status light

SL801



Quad-Tap Plug

- 50 Ft. heavy-duty 12/3 cord, (SJTW)
- Quad (4) polarized plug with four 15amp grounded receptacles
- 40% Larger cord reel w/smooth glide rewind
- Resettable 15amp circuit breaker
- LED power status light
- Mounting brackets (included)

SL8904



Plug Receptacles	Order No.	Regular Price	SALE
3-TAP	KE58SL801	66.15	49.60
4-TAP	KE58SL8904	121.55	91.15

PS602

STREAMLIGHT Argo® Headlamp

- **Bulb:** C4® LED
- **Run time:** 3 Output modes: High for maximum output and long-range beam distance: 3 hrs, 150 lumens, 9,250 candela, 190m beam distance; Medium for intense brightness and longer run time, 4.5 hrs, 100 lumens, 6,375 candela, 160m beam distance; Low for extended run times and when less intense light is needed, 30 hrs, 45 lumens, 2,750 candela, 103m beam distance
- **Battery:** 3 AAA alkaline (included)
- **Features:** Low level battery indicator: recessed push-button switch; elastic head strap and rubber hard hat strap; 90° tilting head; IPX4 rated for water resistance; 2 meter impact resistance tested



Order No.	Regular Price	SALE
KA5761301	50.00	35.00

PS904

ELECTRIX Halogen Machine Lights

- Mounts directly to workstations, grinders, lathes or machines
- 55 Watt halogen bulb (included)
- Color: gray

MADE IN THE USA



Type	Order No.	Regular Price	SALE
Adjustable Arm Machinist Light	KC517240	109.00	87.20
Adjustable Arm Moisture Resistant Machinist Light	KC517750	294.15	235.30

PS419

ELECTRIX Moisture Resistant Machine Light Magnet Mount

MADE IN THE USA

- Powerful 50-watt halogen lamp combined with anodized reflector produces bright, evenly spread white light
- Compact 3" x 4" metal shade sealed to protect against dust and moisture
- On/off switch enclosed by moisture resistant seal
- Flexible steel gooseneck with 32" overall reach
- Color: black



OAL (in.)	Order No.	Regular Price	SALE
32	KC517330	136.50	109.20

PS729

TPC CORPORATION Milk House Style Fan Forced Portable Heater

- Temperature control thermostat fan forced air
- 2 Heat settings
- Tip over safety switch
- Automatic reset limit control
- Thermal cut-off device
- 6' Long 3 conductor cord
- 15 Amp / 120V / Grd plug



BTU	Amps	Watts	Order No.	Regular Price	SALE
5120	12.5/10.8	1500/1300	PS30800419	91.00	63.70

PS883

TPC CORPORATION Ceramic Fan Forced Portable Heater

- Finned steel tubular heating element
- Internal manual reset thermal cut-out
- 6' Long cord with molded removable plug for hard wire installations
- Swivel base can be used as a wall, floor or ceiling unit
- 120 Volt



BTU	Amps	Watts	Order No.	Regular Price	SALE
5120	12.5/1.1	1500/950	PS30445931	136.00	95.20

PS884

MAGLITE® ML125® LED Rechargeable System

- **Bulb:** LED
- **Lumens:** 186 NiMH, 193 Alkaline
- **Run time:** 8 hrs. 30 min./high, 30 hrs./low - NiMH, 25 hrs./ high, 72 hrs./low - Alkaline
- **Body:** Anodized aluminum alloy with diamond knurl grip
- **Battery:** NiMH (included) or 3C Alkaline (not included)
- **Size:** 11.1" long
- **Features:** 5 Modes using QuickClik™ system, 4 function settings, water resistant, 1m drop resistant, includes charging cradle and AC adapter

★★NEW★★



Order No.	Regular Price	SALE
KA705100	113.40	90.70

PS944

RAYOVAC Alkaline & Lithium Batteries

- **Lantern Batteries:** Rayovac Alkaline lantern batteries last up to 2x as long as zinc-carbon batteries and provide an extra measure of leakage resistance for critical applications. Rayovac is date coded to ensure freshness, bulk packaging, and long shelf life.

★★NEW★★



- **Alkaline Bulk Batteries:** Rayovac delivers outstanding performance and reliability, even after 10 years of storage. Rayovac bulk batteries are individually date coded to ensure freshness. Rayovac offer economical bulk packaging.



- **Specialty – Button/Coin/Photo Batteries:** Designed for applications with a high current pulse and continuous drain. Very high power, energy density, and excellent rate capability. Up to 4x the power of alkaline batteries. Wide operating temperatures, excellent shelf life.

Style - Rayovac Blister Packed Alkaline					
Size	Qty./Pk.	Rayovac Model No.	Order No.	Regular Price	SALE
AA	8	815-8CF	KA308158CF	8.25	6.20
AAA	8	824-8CF	KA308248CF	8.25	6.20
AAAA	2	KE825-2	KA30KE8252	3.40	2.55
C	8	814-8CF	KA308148CF	16.75	12.55
D	8	813-8CF	KA308138CF	16.75	12.55

Style - Rayovac Coin/Cell					
Size	Qty./Pk.	Rayovac Model No.	Order No.	Regular Price	SALE
1.5V	3	303/357	KA303033573ZMA	4.05	3.05
3V	1	2032	KA30KECR20321C	1.55	1.15
3V	1	CR 1/3 N	KA30V6131101401	5.70	4.30
3V	2	2450	KA30KECR24502C	3.05	2.30

Style - Rayovac Ultra Pro Bulk Alkaline					
Size	Qty./Pk.	Rayovac Model No.	Order No.	Regular Price	SALE
AA	24	ALAA-24F	KA30ALAA24F	11.90	8.95
AAA	24	ALAAA-24F	KA30ALAAA24F	12.45	9.35
C	12	ALC-12F	KA30ALC12F	12.15	9.10
D	12	ALD-12F	KA30ALD12F	15.40	11.55

PS960

PRM PRO COB Wide Beam Pen Flashlight

★★NEW★★

- **Bulb:** COB
- **Lumens:** 400 High & 160 Low
- **Run Time:** 4.5 Hours - High, 15 Hours - Low, 40 Hours Blinking
- **Switch:** Button
- **Battery:** 3-AAA (included)
- **Size:** 10 x 3.25 x 1.25
- **Features:** Powerful lighting that illuminates your work area, magnet on bottom allows for your hands to be completely free, anodized aluminum housing is both water and impact resistant, high beam, low beam & red blinking for emergency.



POWERFUL!

Order No.	Regular Price	SALE
KP9199171	15.00	9.00

PS959

RAYOVAC 220 Lumen Tactical LED Flashlight

- **Bulb:** High performance CREE XPG LED with spot to flood adjustment
- **Lumens:** High 220; Low 90
- **Run time:** 3 lighting modes: High 2 hours; Low 4-1/2 hours; Strobe 8 hours
- **Body:** Aircraft grade aluminum
- **Battery:** 3AAA (included)
- **Size:** 2 x 5-7/8 x 8-3/4"
- **Features:** 479 ft beam distance. Water resistant. Includes holster

★★NEW★★



Order No.	Regular Price	SALE
KA30RNT3AAAB	35.90	26.90

PS068

TITAN® 60 Lumen LED Mini Flashlight

- **Bulb:** 1 Watt Lux-C LED
- **Lumens:** 60
- **Battery:** 1-AA (included)
- **Size:** 3.4" long
- **Features:** Durable aluminum housing with water resistant seals. Push button switch



Order No.	Regular Price	SALE
KP8236016	17.90	11.65

PS063

TITAN® Solar Powered Auto Darkening Welding Helmet

- Projects against UV and infrared radiation in variable shades from DIN 9 to DIN 13
- Lens automatically darkens when an arc is struck and returns to normal when welding stops
- Powered by solar cells with battery back-up
- Switching time: .000033 seconds light to dark
- Viewing area: 3.86 x 1.70"
- 1 Year warranty against mfg. defect



Helmet Graphics	Order No.	Regular Price	SALE
Eagle / Flag	KP8241265	158.15	102.80
Flames	KP8241266	158.15	102.80

PS825

MATERIAL HANDLING



Heavy Duty Two Shelf Utility Carts

- Perfect for transporting equipment and heavy loads
- Deep shelves securely hold contents
- Sturdy, structural foam construction won't rust, dent, chip or peel
- Lightweight & maneuverable, includes 5" diameter, non-marking casters (two fixed & two swivel)
- Color: black
- Capacity: 500 lbs.
- UPS Dimensional Weight Shipping Rates May Apply



Overall Size (in.)	Shelf Size (in.)	Order No.	Regular Price	SALE
39-1/4 x 17-7/8 x 33-1/4	16 x 30	RZ554500	321.95	247.70
45-1/4 x 25-7/8 x 37-1/8	24 x 36	RZ554520	365.70	281.30

MH360

STEELMAN® Roll Around Jacks

- Wide stance and low center of gravity provide optimum stability under load stress
- Heavy gauge, sturdy frame
- Handle actuated release valve provides precise metered control of lowering speed
- Foot pedal operation provides quick no load lifts to load point



★★NEW★★

Capacity	Order No.	Regular Price	SALE
3-1/2 Ton	KE53647530	353.25	264.95
5 Ton	KE53647509	1174.50	880.90
10 Ton	KE53647510	1739.25	1304.45

MH466



Wire & Terminal Storage Cabinet

- Prime cold rolled steal construction
- 16 Rubberized wire grommets provided to keep wires free from tangling
- 6 Rods for wire spools, maximizing your small wire storage
- Accommodates (24) 3-1/2" spools
- Modular with Durham Small Slide Rack Cabinets
- Durable gray powder coat finish

★★NEW★★



Model No.	Depth (in.)	Width (in.)	Height (in.)	Weight	Order No.	Regular Price	SALE
297-95	12	15-1/4	16-1/2	23 lbs	SB5529795	143.20	114.55

MH473



14 Gauge Ventilated Cabinets

- Heavy duty all welded 14 gauge steel
- 3-point locking system with chrome keyed handle and 5/16" diameter lock rods
- Full height welded piano hinges for increased strength and rigidity of doors
- Punched diamond pattern in doors allows content visibility and ventilation
- Adjustable shelves rest on louver uprights and adjust on 4" centers.(no tools required)

Width (in.)	Depth (in.)	Height (in.)	Load Capacity	No. of Shelves	Weight	Order No.	Regular Price	SALE
36	18	72	900 lbs per shelf	(4) adjustable shelves	310 lbs	SB55EMDC3618729	1006.35	805.05
36	24	72	900 lbs per shelf	(4) adjustable shelves	335 lbs	SB55EMDC3624729	1043.60	834.85
48	24	72	700 lbs per shelf	(4) adjustable shelves	406 lbs	SB55EMDC4824729	1202.30	961.85

Ships by Common Carrier from Manufacturer



MH471



Parts Washers

- Designed for use in shops ranging from mechanic's garage to heavy industry
- Features a 115V fully enclosed pump, seamless construction
- 20 Gallon tank dimensions: 29-7/8" x 20-3/4" x 10-51/64"
- Pump output through hose, 50 GPH
- 1991020 shown



Capacity	Order No.	Regular Price	SALE
3.5 Gallons (Portable Style)	NW551991035	92.00	59.80
20 Gallons (Heavy Duty Style)	NW551991020	168.00	117.60

UPS dimensional weight shipping rates apply

M505



Foreman's Closed Style Desk

★★NEW★★

- 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



Color	Width (in.)	Depth (in.)	Height (in.)	Weight	Order No.	Regular Price	SALE
Gray	34-1/2	29	53	155 lbs	RV8266055	772.00	501.80

Ships by common carrier

MH417



5-Drawer Project Center with Power Strip

- Medium use / medium capacity
- Battery charger storage
- Power tool holster
- UL Approved power strip included
- 25 lb. Friction drawer slides
- Full-width drawer pulls
- External keyed-lock bar
- Black
- Caster size: 4" x 2"



Size (in.)	Holding Capacity	Weight	Order No.	Regular Price	SALE
29 x 20 x 34.5	300 lbs	80 lbs	RX61SPPC5BKP	304.90	243.90

Roller Cabinet Ships By Truck

MH378

MATERIAL HANDLING

PRM PRO Shop Stool with Cushion Seat

- Vinyl black padded seat swivels 360°
- Chrome plated legs
- Height - 29" (740mm)
- Seat diameter 13.7"
- Great for shop, warehouse, office, etc.

★★NEW★★

Order No.	Regular Price	SALE
RZ456000	35.40	29.50



MH476

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
- Low height 18", height 22", seat width 16"

★★NEW★★

Order No.	Regular Price	SALE
RZ454000	90.00	69.00



MH475

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

★★NEW★★



Length (in.)	Width (in.)	Height (in.)	Order No.	Regular Price	SALE
18	9	11	LC707697	33.15	21.55
24	9	12	LC707699	37.00	24.05

MH470

WYTERLAS 3-Drawer Utility Cart

- Medium use/medium capacity
- Full-width drawer pulls
- 25 lb. ball bearing drawer slides
- Lid support (gas struts)
- Tubular keyed lock
- Color: black
- Shipping weight: 109 lbs
- UPS Dimensional Weight shipping rates apply



Size W x D x H (in.)	Load Capacity	Caster Size (in.)	Order No.	Regular Price	SALE
34 x 20 x 37	500 lbs	5 x 2	RX61SPUC3BK	451.10	360.90

MH391

DURHAM MFG Spill Control Cabinets

- Prime cold rolled steel
- Door is welded and riveted in place using a full piano hinge with rust resistant hinge pin
- Spring loaded latches keep door closed and allow easy access in an emergency
- (2) fully adjustable shelves included
- Full Length Plexiglass window allows easy content inventory
- Keyhole slots in back profile for wall hanging

★★NEW★★

Model No.	Color	Width (in.)	Depth (in.)	Height (in.)	No. of Shelves	Weight	Order No.	Regular Price	SALE
052-43	White	13-3/4	14-1/4	30	(2) adjustable shelves	24 lbs	SB5505243	186.75	149.40
057-50	Yellow	19-7/8	14-1/4	32-3/4	(2) adjustable shelves	34 lbs	SB5505750	237.40	189.90

Ships By Common Carrier from Manufacturer



MH472

Huot ToolScoop™ Carts

- 2 storage trays with protective lining inside
- Durable nylon inserts to help prevent tool damage
- New extra tray supports for better stability
- Interlocking side panel construction adds strength
- Heavy duty 5 x 1-1/4" casters load rated at 1000 lbs
- Angled tray for easy, quick tool access from either side
- Two position adjustable tray holder
- Heavy gauge, all steel infra red/baked epoxy finish

★★NEW★★

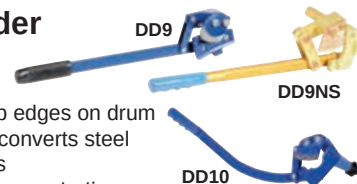


Tool Capacity	Weight	Order No.	Regular Price	SALE
36-HSK 100A Toolholders	79 lbs	AP5313980	525.00	446.25
48-HSK 63A Toolholders	79 lbs	AP5313970	525.00	446.25

MH474

Vestil Drum Deheader

- Adjustable design works with different types of steel drums
- Beveled blade prevents sharp edges on drum
- Rugged construction quickly converts steel drums into storage containers
- Angled blade offers maximum penetration



Size (in.)	Material	Style	Order No.	Regular Price	SALE
4.5 x 18 x 5.5	Steel	Standard	RV54DD9	78.55	70.70
21 x 6.5 x 5.25	Steel	Extra Leverage	RV54DD10	83.85	75.45
21 x 6 x 4	Bronze	Non Sparking	RV54DD9NS	370.20	333.20

MH455

Exxo Rotary Barrel Hand Pumps

Chemical-Based Hand Pump 7118

- Corrosion resistant
- Used with petroleum products, water & water-based chemicals, anti-freeze, mild acids, and alkali solutions
- Pump body made from glass filled polypropylene with Rytan veins, seals made from viton rubber and all hardware is stainless steel
- Includes: 3 Pc. (45" long) suction tubes & choice of 2" bung adapters
- Fits 15 -55 gallon units

★★NEW★★

Oil-Based Hand Pump 7119

- For dispensing oil-based fluids
- Fits 15 - 55 gallon units
- Pump body & veins made of polypropylene
- Includes: pump, strainer filter, suction tube & 2" bung adapter



Type	Order No.	Regular Price	SALE
Oil-Based Hand Pump	HY507119	56.10	39.80
Chemical-Based Hand Pump	HY507118	89.15	67.35

MH455



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



Dia. (in.)	Thickness	Hole Size	Max RPM	Std. Pack	Bluefire			Gemini		
					Zirconia Alumina/Aluminum Oxide			Aluminum Oxide		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3	.035	3/8	25465	25	MH60030043174	2.60	2.35	MH60030010628	1.75	1.60
3	.060	3/8	25465	25	MH60030043175	2.65	2.40	MH60030010647	1.75	1.60
4	.035	3/8	19100	25	MH60040043173	3.60	3.25	MH60040010630	2.70	2.45
4	.060	3/8	19100	25	MH60040043171	3.60	3.25	MH60040010655	2.40	2.20

A572



Reinforced Cut-Off Wheels

BlueFire- New zirconia alumina and aluminum

- 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



Size (in.)	Type	Max RPM	Std. Pack	Bluefire			Gemini		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-1/2 x .045 x 7/8	T01	13580	25	MH60045043208	3.00	2.70	MH60040023602	2.20	2.00
4-1/2 x .045 x 5/8-11	T27	13580	20	MH60045043223	4.40	3.95	MH60040019549	3.65	3.30
4-1/2 x .045 x 7/8	T27	13580	20	MH60045043219	3.15	2.85	MH60040042026	2.40	2.20
5 x .045 x 7/8	T01	12225	25	MH60050043209	3.30	3.00	MH60050023603	2.55	2.30
6 x .045 x 7/8	T01	10185	20	-	-	-	MH60060023604	2.65	2.40
6 x .045 x 7/8	T01	10185	25	MH60060043210	3.80	3.45	-	-	-

A573



Light Grind & Cut-Off Wheels - Aluminum Oxide-Type 1

- Aluminum oxide grain
- Fiberglass reinforced
- General purpose light grinding and cut-off applications
- Economical choice for cutting iron, steel, stainless steel and other materials



Size (in.)	Grit	Order No.	Regular Price	SALE
2 x 1/8 x 1/4	24	SP010201252124A	3.20	2.55
2 x 1/8 x 1/4	36	SP010201252136A	3.25	2.60
2 x 1/8 x 1/4	46	SP010201252146A	3.05	2.45
2 x 1/8 x 3/8	24	SP010201253124A	3.20	2.55
2 x 1/8 x 3/8	36	SP010201253136A	3.25	2.60
2 x 1/8 x 3/8	46	SP010201253146A	3.05	2.45
3 x 1/8 x 1/4	24	SP010301252124A	2.20	1.75
3 x 1/8 x 1/4	36	SP010301252136A	2.20	1.75
3 x 1/8 x 1/4	46	SP010301252146A	2.15	1.75
3 x 1/8 x 3/8	24	SP010301253124A	2.20	1.75
3 x 1/8 x 3/8	36	SP010301253136A	2.20	1.75
3 x 1/8 x 3/8	46	SP010301253146A	2.15	1.75
4 x 1/8 x 1/4	24	SP010401252124A	3.10	2.50
4 x 1/8 x 1/4	36	SP010401252136A	3.05	2.45
4 x 1/8 x 1/4	46	SP010401252146A	3.35	2.70
4 x 1/8 x 3/8	24	SP010401253124A	3.05	2.45
4 x 1/8 x 3/8	36	SP010401253136A	3.05	2.45
4 x 1/8 x 3/8	46	SP010401253146A	3.35	2.70
4 x 1/8 x 5/8	24	SP010401255124A	3.05	2.45
4 x 1/8 x 5/8	36	SP010401255136A	3.05	2.45
4 x 1/8 x 5/8	46	SP010401255146A	3.35	2.70

A619



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.



Size (in.)	Grit	Order No.	Regular Price	SALE
4-1/2 x .035 x 7/8	A60-TB-Flex	MG9045010	2.00	1.80
4-1/2 x .045 x 7/8	A36-TBF	MG9035514	2.00	1.80
6 x .040 x 7/8	A60-TB-Flex	MG9045012	2.55	2.30
6 x .045 x 7/8	A36-TBF	MG9035517	2.55	2.30

A332



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



Size (in.)	Grit	Order No.	Regular Price	SALE
2 x .060 x 1/4	46	SP010200602146Z	3.35	2.70
2 x .060 x 1/4	60	SP010200602160Z	3.35	2.70
2 x .060 x 3/8	46	SP010200603146Z	3.35	2.70
2 x .060 x 3/8	60	SP010200603160Z	3.35	2.70
4 x .060 x 3/8	46	SP010400603146Z	3.25	2.60
4 x .060 x 3/8	60	SP010400603160Z	3.70	2.95
4 x 1/16 x 1/4	46	SP010400622146Z	3.25	2.60
4 x 1/16 x 3/8	46	SP010400623146Z	3.25	2.60

A620

3M PSA Discs - 248D

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



Dia. (in.) - 6				
Grade	Std. Pkg. Qty.	Order No.	Regular Price	SALE
50	250	TM1120879	1.75	1.60
60	250	TM1120878	1.65	1.50
80	250	TM1120877	1.60	1.45
P100	250	TM1120876	1.50	1.35
P120	250	TM1121497	1.50	1.35

Dia. (in.) - 8				
Grade	Std. Pkg. Qty.	Order No.	Regular Price	SALE
36	250	TM1120874	3.50	3.15
40	250	TM1120873	3.30	3.00
60	250	TM1120871	3.00	2.70
80	250	TM1120870	2.85	2.55
P120	250	TM1120868	2.70	2.45

Dia. (in.) - 12				
Grade	Std. Pkg. Qty.	Order No.	Regular Price	SALE
36	10	TM1188906	8.10	7.25
40	10	TM1188905	7.65	6.85
50	10	TM1188904	7.20	6.45
60	10	TM1188903	6.80	6.10
80	10	TM1188902	6.40	5.75
P100	10	TM1188901	6.05	5.45

A517

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

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



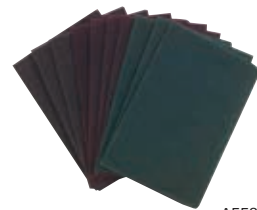
Grit	Order No.	Regular Price	SALE
60	SP12S911060S	0.70	0.60
80	SP12S911080S	0.70	0.60
120	SP12S911120S	0.65	0.55
150	SP12S911150S	0.60	0.50
180	SP12S911180S	0.50	0.40
220	SP12S911220S	0.50	0.40
240	SP12S911240S	0.50	0.40
280	SP12S911280S	0.50	0.40
320	SP12S911320S	0.50	0.40
360	SP12S911360S	0.50	0.40
400	SP12S911400S	0.50	0.40
500	SP12S911500S	0.50	0.40
600	SP12S911600S	0.50	0.40
1000	SP12S9111000S	0.50	0.40

A553

SURF PRO® 6" x 9" Non-Woven Hand Pads

- Excellent 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 (20) only

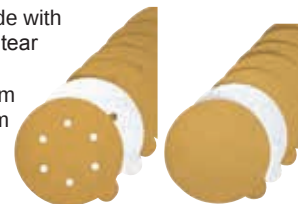
Std. Pack	Color	Description	Material	Grade	Order No.	Regular Price	SALE
20	Green	Scouring Industrial	Aluminum Oxide	Very Fine	SP22HP69GNVFNA	1.00	0.80
20	Light Gray	Clean & Finish	Silicon Carbide	Ultra Fine	SP22HP69GYUFNS	1.00	0.80
20	Maroon	General Purpose	Aluminum Oxide	Very Fine	SP22HP69MAVFNA	0.90	0.75
20	Tan	Heavy Duty	Aluminum Oxide	Medium	SP22HP69TNMEDA	1.95	1.60



A558

SURF PRO® PSA Gold Paper Discs with Tabs

- Made in the USA! Edge tear resistant! Made with strong .00050 Mylar film for superior edge tear resistance.
- Stearated paper with heat treated aluminum oxide grain and a full phenolic bond system for uniform scratch pattern
- Open coat disc design for fast cutting and exceptionally long life



Number of Holes - 0					
Size (in.)	Grit	Case Qty	Order No.	Regular Price	SALE
5	40	50	SP11DT50040GAC0	31.35	24.90
5	60	50	SP11DT50060GAC0	26.60	21.15
5	80	100	SP11DT50080GAC0	40.20	31.90
5	100	100	SP11DT50100GAC0	39.05	31.00
5	120	100	SP11DT50120GAC0	39.05	31.00
5	150	100	SP11DT50150GAC0	39.05	31.00
5	180	100	SP11DT50180GAC0	39.05	31.00
5	220	100	SP11DT50220GAC0	39.05	31.00
5	240	100	SP11DT50240GAC0	39.05	31.00
5	320	100	SP11DT50320GAC0	39.05	31.00
5	400	100	SP11DT50400GAC0	39.05	31.00
5	600	100	SP11DT50600GAC0	39.05	31.00
5	800	100	SP11DT50800GAC0	39.05	31.00
5	1000	100	SP11DT51000GAC0	39.05	31.00
6	40	50	SP11DT60040GAC0	44.30	35.15
6	60	50	SP11DT60060GAC0	37.60	29.85
6	80	100	SP11DT60080GAC0	55.95	44.40
6	100	100	SP11DT60100GAC0	53.85	42.75
6	120	100	SP11DT60120GAC0	53.85	42.75
6	150	100	SP11DT60150GAC0	53.85	42.75
6	220	100	SP11DT60220GAC0	53.85	42.75
6	320	100	SP11DT60320GAC0	53.85	42.75
6	400	100	SP11DT60400GAC0	53.85	42.75

Number of Holes - 5					
Size (in.)	Grit	Case Qty	Order No.	Regular Price	SALE
5	80	100	SP11DT50080GAC5	40.20	31.90
5	100	100	SP11DT50100GAC5	39.05	31.00
5	120	100	SP11DT50120GAC5	39.05	31.00
5	150	100	SP11DT50150GAC5	39.05	31.00
5	180	100	SP11DT50180GAC5	39.05	31.00
5	220	100	SP11DT50220GAC5	39.05	31.00

A663

3M Scotch-Brite™ 7447 PRO & 7448 PRO

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



Size (in.)	Grade	Style	Description	Order No.	Regular Price	SALE
6 x 9	A VFN	7447 PRO	Hand Pad	TM2264926	1.65	1.50
6 x 9	S ULF	7448 PRO	Hand Pad	TM2264935	1.65	1.50
6 x 9	ULF	7447 & 7448 PRO	Hand Pad	TM2264933	4.80	4.30
5	A VFN	7447 PRO	Disc	TM2164959	2.00	1.80
6	A VFN	7447 PRO	Disc	TM2164960	2.65	2.40

A683

MERIT Coated Abrasive Mounted Flap Wheels

- Aluminum oxide abrasive
- Resin bond cloth
- 1/4" Hardened steel shanks
- Ideal for finishing



Dia. (in.)	Face Width (in.)	Grit	Order No.	Regular Price	SALE
3/8	3/8	80	MM5937471	6.20	4.95
3/8	3/8	120	MM5937472	6.20	4.95
3/8	3/8	180	MM5937473	6.20	4.95
3/8	3/8	240	MM5937474	7.15	5.70
5/8	5/8	80	MM5937481	6.45	5.95
5/8	5/8	120	MM5937482	6.45	5.95
5/8	5/8	180	MM5937483	6.45	5.15
5/8	5/8	240	MM5937484	7.45	5.95
3/4	3/4	80	MM5937591	6.85	6.30
3/4	3/4	120	MM5937592	7.90	6.30
3/4	3/4	180	MM5937593	6.85	5.45
3/4	3/4	240	MM5937594	6.85	5.45
1	1	60	MM5937310	5.80	4.65
1	1	80	MM5937311	5.80	4.65
1	1	120	MM5937312	5.80	4.65
1-3/16	1/8	80	MM5937491	7.45	5.95
1-3/16	1/8	120	MM5937492	6.45	5.15
1-3/16	1/8	180	MM5937493	6.45	5.15
1-3/16	1/8	240	MM5937494	6.45	5.15
1-3/16	3/16	80	MM5937501	6.45	5.15
1-3/16	3/16	120	MM5937502	7.45	5.95
1-3/16	3/16	180	MM5937503	6.45	5.15
1-3/16	3/16	240	MM5937504	7.45	5.95
1-1/2	1	60	MM5937340	7.35	5.85
1-1/2	1	80	MM5937141	7.35	5.85
1-1/2	1	120	MM5937142	7.35	5.85
2	1	60	MM5937370	9.30	7.40
2	1	80	MM5937371	9.30	7.40
2	1	120	MM5937372	9.30	7.40
2-1/2	1	60	MM5937410	10.50	8.35
2-1/2	1	80	MM5937411	10.50	8.35
2-1/2	1	120	MM5937412	10.50	8.35
3	1	60	MM5937450	11.55	9.20
3	1	80	MM5937451	11.55	9.20
3	1	120	MM5937252	11.55	9.20

Packed 10 per box

A407

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
- **MUST USE WITH BUFFING COMPOUND**



★NEW★

Dia. (in.)	Hole (in.)	RPM	Order No.	Regular Price	SALE
4-1/2	7/8	13300	MG9049698	18.35	16.35
5	7/8	12200	MG9049699	21.35	19.05

A686

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

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



Grit	RPM	Type 27			Type 29		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	13300	SP11FD457A7036Z	2.95	2.35	SP11FD457A9036Z	2.95	2.35
40	13300	SP11FD457A7040Z	2.95	2.35	SP11FD457A9040Z	2.95	2.35
60	13300	SP11FD457A7060Z	2.95	2.35	SP11FD457A9060Z	2.95	2.35
80	13300	SP11FD457A7080Z	2.95	2.35	SP11FD457A9080Z	2.95	2.35

Also available in trimmable back and zirc plus.

A640

3M Giant Flap Discs 566A

Take a giant step toward greater productivity!

- 3M™ Giant Flap Discs are extra thick, and packed with more abrasive material.
- 25% More abrasive material than standard flap discs
- Delivers longer life and fewer changes
- Y Wt. poly-cotton backing
- Other sizes and materials available



Size (in.)	Grit	Max RPM	Std. Pack	Hole Size	Type 27			Type 29		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-1/2	40	13300	10	7/8	TM1155382	7.55	6.80	TM1155422	7.55	6.80
4-1/2	60	13300	10	7/8	TM1155383	7.55	6.80	TM1155423	7.55	6.80
4-1/2	80	13300	10	7/8	TM1155384	7.55	6.80	TM1155424	7.55	6.80
4-1/2	40	13300	10	5/8-11	TM1155378	9.35	8.40	TM1155418	9.35	8.40
4-1/2	60	13300	10	5/8-11	TM1155379	9.35	8.40	TM1155419	9.35	8.40
4-1/2	80	13300	10	5/8-11	TM1155380	9.35	8.40	TM1155420	9.35	8.40

A577

CGW 4-1/2" Blue Zirconia Flap Discs

MADE IN THE USA

Z3 Ultimate - Excellent on steel and stainless

- Extra wide material width for extra long life - This creates extra spacing to allow zirconia to break down
- Special design flap structure provides cushion-like impact, thus making stock removal easier to control and offering best finishing results
- 30% longer life than regular density flap discs
- Premium 100% Zirconia Alumina grain with a poly/cotton heat treated backing



CF Right Angle Grinder

Dia. (in.)	Hole Size (in.)	Grit	T27			T29		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-1/2	7/8	36	MG9054001	4.95	4.45	MG9054021	4.95	4.45
4-1/2	7/8	40	MG9054002	4.95	4.45	MG9054022	4.95	4.45
4-1/2	7/8	60	MG9054004	4.95	4.45	MG9054024	4.95	4.45
4-1/2	7/8	80	MG9054005	4.95	4.45	MG9054025	4.95	4.45
4-1/2	5/8-11	36	MG9054011	6.80	6.10	MG9054031	6.80	6.10
4-1/2	5/8-11	40	MG9054012	6.80	6.10	MG9054032	6.80	6.10
4-1/2	5/8-11	60	MG9054014	6.80	6.10	MG9054034	6.80	6.10
4-1/2	5/8-11	80	MG9054015	6.80	6.10	MG9054035	6.80	6.10

A276

CGW Polishing Compound

★NEW★

- 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	8.80	7.85

A687



Depressed Center Wheels

Carbo Metal general purpose aluminum oxide wheels

- Aluminum oxide abrasive for general purpose applications
- Economical choice for initial price conscious customers
- Low initial cost per wheel
- Good choice for on-site and small unit jobs

Carbo Gold quality aluminum oxide wheels for cost effective grinding

- Aluminum oxide abrasive and an advanced resin bond
- Fast stock removal
- No burning or vibration
- Great choice for grinding all types of ferrous metals

Gold MaXX for free cutting, premium performance

- Zirconia abrasive blend with a free cutting bond that makes grinding easier
- High performance level; low price
- 30% Longer life than standard aluminum oxide wheels
- Performs well on all ferrous metals from carbon steel to stainless

Premier Red for highest performance and productivity

- Highest productivity; lowest total grinding costs
- Lasts three times as long as aluminum oxide wheels
- Outstanding results grinding stainless and high alloy steels



Dia. (in.)	Thickness (in.)	Hole Size (in.)	RPM	Carbo Gold A24 Grit			Carbo Gold MaXX ZA24R			Carbo White A24 Grit			Premier Red Z24 Grit		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
5	1/4	7/8	12200	MG4602846	2.80	2.50	MG4670193	4.50	4.00	-	-	-	MG4602876	7.40	6.60
7	1/4	5/8-11	8500	MG4602854	6.05	5.40	MG4670195	8.90	7.90	MG4661576	5.50	4.90	MG4602883	11.85	10.55
7	1/4	7/8	8500	MG4602853	4.00	3.55	MG4670194	6.90	6.15	MG4661575	3.45	3.10	MG4602881	9.95	7.90
9	1/4	5/8-11	6600	-	-	-	MG4670197	11.80	10.50	MG4661580	8.00	7.10	MG4602889	16.30	14.50
4-1/2	1/4	5/8-11	13300	MG4602843	3.75	3.35	MG4670192	5.50	4.90	MG4661568	2.80	2.50	MG4602873	7.55	6.75
4-1/2	1/4	7/8	13300	MG4602842	2.05	1.85	MG4670191	3.45	3.10	MG4661567	1.75	1.60	MG4602872	5.35	4.75

A383



Quantum 3 Depressed Center Wheels - Type 27

- Operator Comfort: with reduced hand fatigue from less cutting vibration
- Less Grinding Time: with a sharper wheel for highest metal removal and reduced pressure from faster cutting action
- Less Downtime & Waste: with longer wheel life sing fewer wheels

★★NEW★★



Size (in.)	RPM	Order No.	Regular Price	SALE
4-1/2 x 1/4 x 5/8-11	13580	MH60D045070793	9.80	8.80
4-1/2 x 1/4 x 7/8	13580	MH60D045070794	8.65	7.80
5 x 1/4 x 5/8-11	12225	MH60D050070795	11.10	10.00
5 x 1/4 x 7/8	12225	MH60D050070796	10.00	9.00
6 x 1/4 x 5/8-11	10185	MH60D060070797	13.50	12.15
6 x 1/4 x 7/8	10185	MH60D060070798	12.20	10.95
7 x 1/4 x 5/8-11	8600	MH60D070070799	14.30	12.85
7 x 1/4 x 7/8	8600	MH60D070070800	12.80	11.50

A694



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

Use with Right Angle Air/Electric Grinders

A24 N Grade

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

A24 R Grade

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



Size (in.)	Max. RPM	A24N			A24R		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-1/2 x 1/4 x 7/8	13300	MG4120060	2.80	2.55	MG4120063	2.80	2.55
4-1/2 x 1/4 x 5/8-11	13300	MG4120160	3.95	3.55	MG4120163	3.95	3.55

A523



Diamond X Blades - Type 1

- Can be used on sheet metal up to 3/8" thick or metal bar up to 3/4" thick
- Minimum of 25 times the working lift of standard resin wheels
- Advanced brazing process and high-quality diamonds for higher production rates

★★NEW★★



Size (in.)	Carton Qty	Order No.	Regular Price	SALE
4-1/2 x .050 x 7/8	1	MG9049714	44.50	39.65
5 x .050 x 7/8	1	MG9049715	50.15	44.70
6 x .050 x 7/8	1	MG9049716	58.15	51.80

A697

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

★★NEW★★

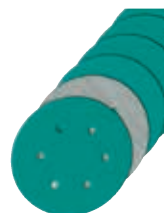


Wheel Type - Type 27						
Dia. (in.)	Thickness (in.)	Hole Size (in.)	Max. RPM	Order No.	Regular Price	SALE
4	1/4	3/8	15,300	TM0178469	9.85	8.85
4	1/4	5/8	15,300	TM0178468	9.85	8.85
4-1/2	1/4	5/8	13300	TM0164320	11.50	10.30
4-1/2	1/4	7/8	13300	TM0178466	10.20	9.15
5	1/4	5/8	12,250	TM0164317	13.05	11.70
5	1/4	7/8	12,250	TM0178467	11.75	10.55
6	1/4	5/8	10,200	TM0164318	15.90	14.25
7	1/4	5/8	8,500	TM0164319	16.85	15.10
7	1/4	7/8	10,200	TM0164314	14.40	12.90
7	1/4	7/8	8,500	TM0164315	15.05	13.50
9	1/4	5/8	6,650	TM0187153	22.15	19.85
9	1/4	7/8	6,650	TM0164316	20.40	18.25

A695

PASCO Q711T Hook & Loop Aluminum Oxide Discs

- Velcro
- Film backing - Strong, yet pliable .003 Mylar backing
- Film offers up to 4X the life vs. paper discs
- Longest lasting disc available by up to 300% over paper discs
- Uniform film backing with "P" graded abrasive for uniform finish
- Faster rate of cut, more consistent finish and longer life



Dia. (in.)	Grit	Standard Pkg.	Order No.	Regular Price	SALE
5	80	100	MG9451231	0.60	52.65
5	100	100	MG9451232	0.60	50.65
5	120	100	MG9451233	0.55	48.60
5	150	100	MG9451234	0.55	48.60
5	180	100	MG9451235	0.55	48.60
5	220	100	MG9451236	0.55	48.60
5	320	100	MG9451239	0.55	48.60
5	80	100	MG9451303	0.60	52.65
5	100	100	MG9451304	0.60	50.65
5	120	100	MG9451305	0.55	48.60
5	150	100	MG9451306	0.55	48.60
5	180	100	MG9451307	0.55	48.60
5	220	100	MG9451308	0.55	48.60

A660

SURF PRO® Bench & Pedestal Grinding Wheels - Silicon Carbide

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



Size (in.)	Grit	Order No.	Regular Price	SALE
6 x 3/4 x 1	60	SP01063041G060I	24.15	19.20
6 x 3/4 x 1	80	SP01063041G080I	24.15	19.20
6 x 3/4 x 1	100	SP01063041G100I	24.15	19.20
6 x 1 x 1	60	SP01064041G060I	27.60	21.90
6 x 1 x 1	80	SP01064041G080I	27.60	21.90
6 x 1 x 1	100	SP01064041G100I	27.60	21.90
7 x 1 x 1	60	SP01074041G060I	31.55	25.05
7 x 1 x 1	80	SP01074041G080I	31.55	25.05
8 x 1 x 1-1/4	60	SP01084041G060I	36.60	29.05
8 x 1 x 1-1/4	80	SP01084041G080I	36.60	29.05
8 x 1 x 1-1/4	100	SP01084041G100I	36.60	29.05

A590

SURF PRO® Bench & Pedestal Grinding Wheels - Aluminum Oxide

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



Size (in.)	Grit	Order No.	Regular Price	SALE
6 x 3/4 x 1	36	SP01063041A036O	20.05	15.95
6 x 3/4 x 1	60	SP01063041A060M	20.05	15.95
6 x 3/4 x 1	80	SP01063041A080M	20.05	15.95
6 x 1 x 1	36	SP01064041A036O	20.65	16.40
6 x 1 x 1	60	SP01064041A060M	20.65	16.40
6 x 1 x 1	80	SP01064041A080M	20.65	16.40
7 x 1 x 1	36	SP01074041A036O	25.90	20.55
7 x 1 x 1	60	SP01074041A060M	25.90	20.55
8 x 1 x 1	36	SP01084041A036O	32.10	25.50
8 x 1 x 1	60	SP01084041A060M	32.10	25.50
8 x 1 x 1	80	SP01084041A080M	32.10	25.50

A590

NORTON 38A White Surface Grinding Wheels

- White Aluminum Oxide Grain
- Outstanding for cool fast cutting action on high speed steels and cast alloy steels
- High Performance vitrified bond for long life
- Balanced to highest industrial standards



Wheel Size (in.)	Grit	Hardness	Order No.	Regular Price	SALE
7 x 1/2 x 1-1/4	46	H	MH60070041023	29.15	26.20
7 x 1/2 x 1-1/4	46	I	MH60070041024	29.15	26.20
7 x 1/2 x 1-1/4	46	J	MH60070041026	29.15	26.20
7 x 1/2 x 1-1/4	60	J	MH60070041038	29.15	26.20
7 x 1/2 x 1-1/4	60	K	MH60070041041	29.15	26.20
8 x 1/2 x 1-1/4	46	H	MH60080043746	34.95	31.40
8 x 1/2 x 1-1/4	46	I	MH60080043749	34.95	31.40
8 x 1/2 x 1-1/4	46	J	MH60080043752	34.95	31.40
8 x 1/2 x 1-1/4	60	I	MH60080043757	34.95	31.40
8 x 1/2 x 1-1/4	60	J	MH60080043858	34.95	31.40
8 x 1/2 x 1-1/4	60	K	MH60080043861	34.95	31.40
10 x 3/4 x 3	60	I	MH60100060163	64.95	58.30
12 x 1 x 5	46	I	MH60120062703	129.70	116.40

A534

NORTON Silicon Carbide Bench Wheels

Features:

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



Silicon Carbide Grit Range:

- Medium - 60 grit for roughing of carbide tools
- Fine - 80 grit for all purpose grinding of carbide tools
- Extra Fine - 120 grit for fine finishing of carbide tools

Size (in.) - 6 x 1/2 x 1					
Hardness	RPM	Standard Pack	Order No.	Regular Price	SALE
Extra Fine	4140	1	MH60060036573	24.25	21.80
Fine	4140	1	MH60060036572	24.25	22.70
Medium	4140	1	MH60060036571	24.25	21.80

Size (in.) - 6 x 3/4 x 1					
Hardness	RPM	Standard Pack	Order No.	Regular Price	SALE
Extra Fine	4140	1	MH60060037192	28.90	25.95
Fine	4140	1	MH60060037191	28.90	25.95
Medium	4140	1	MH60060037190	28.90	25.95

Size (in.) - 6 x 1 x 1					
Hardness	RPM	Standard Pack	Order No.	Regular Price	SALE
Extra Fine	4140	1	MH60060037194	33.40	30.00
Fine	4140	1	MH60060037193	33.40	30.00
Medium	4140	1	MH60060037187	33.40	30.00

Size (in.) - 7 x 1 x 1					
Hardness	RPM	Standard Pack	Order No.	Regular Price	SALE
Extra Fine	3600	1	MH60070042302	40.80	36.65
Fine	3600	1	MH60070042301	40.80	38.15
Medium	3600	1	MH60070042300	40.80	36.65

A262

SURF PRO® Resin Bond Grinding Wheels - Type 1

- Aluminum oxide grain
- Fiberglass reinforced
- General purpose grinding applications
- Economical choice for cutting iron, steel, stainless steel and other materials



Size (in.)	Grit	Order No.	Regular Price	SALE
3 x 3/16 x 1/4	24	SP010301872124A	2.15	1.75
3 x 3/16 x 1/4	36	SP010301872136A	4.20	3.35
3 x 3/16 x 1/4	46	SP010301872146A	4.10	3.30
3 x 3/16 x 3/8	24	SP010301873124A	2.15	1.75
3 x 3/16 x 3/8	36	SP010301873136A	4.20	3.35
3 x 3/16 x 3/8	46	SP010301873146A	4.10	3.30
3 x 1/4 x 3/8	24	SP010302503124A	4.30	3.45
3 x 1/4 x 3/8	30	SP010302503136A	4.25	3.40
3 x 1/4 x 3/8	46	SP010302503146A	4.10	3.30
3 x 1/4 x 5/8	24	SP010302505124A	4.30	3.45
3 x 1/4 x 5/8	30	SP010302505136A	4.25	3.40
3 x 1/4 x 5/8	46	SP010302505146A	4.10	3.30
3 x 3/8 x 3/8	24	SP010303753124A	5.85	4.65
3 x 3/8 x 3/8	30	SP010303753136A	5.85	4.65
3 x 3/8 x 3/8	46	SP010303753146A	5.75	4.60
3 x 1/2 x 3/8	24	SP010305003124A	6.25	5.00
3 x 1/2 x 3/8	30	SP010305003136A	7.65	6.10
3 x 1/2 x 3/8	46	SP010305003146A	7.55	6.00
4 x 1/4 x 3/8	24	SP010402503124A	5.85	4.65
4 x 1/4 x 3/8	30	SP010402503136A	5.60	4.45
4 x 1/4 x 3/8	46	SP010402503146A	5.85	4.65
4 x 1/4 x 5/8	24	SP010402505124A	5.85	4.65
4 x 1/4 x 5/8	36	SP010402505136A	5.60	4.45
4 x 1/4 x 5/8	46	SP010402505146A	5.85	4.65

A614



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						
Grit	Roll-On			Turn-On		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6440329	1.25	1.00	MM6440311	1.25	1.00
50	MM6440331	1.15	0.95	MM6440313	1.15	0.95
60	MM6440332	1.10	0.90	MM6440314	1.10	0.90
80	MM6440333	1.10	0.90	MM6440315	1.10	0.90
120	MM6440334	1.05	0.85	MM6440316	1.05	0.85

Diameter - 3						
Grit	Roll-On			Turn-On		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6440335	1.70	1.35	MM6440317	1.70	1.35
50	MM6440337	1.55	1.25	MM6440319	1.55	1.25
60	MM6440338	1.50	1.20	MM6440320	1.50	1.20
80	MM6440339	1.40	1.15	MM6440321	1.40	1.15
120	MM6440340	1.40	1.15	MM6440322	1.40	1.15

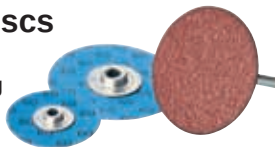
A654



Aluminum Oxide Grain Quick Change Abrasive Discs

Aluminum oxide grain quick change discs

- Best used for general purpose deburring and blending on ferrous and nonferrous metals
- Ideal for use on mild contours or flat surfaces
- Blends light welds, machine marks & parting lines
- Sold in box quantity (100 pcs.)



Material - Aluminum Oxide Dia. (in.) - 1-1/2						
Grit	Roll-On			Turn-On		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
24	SP11QCR15024A	0.50	0.40	SP11QCT15024A	0.50	0.40
36	SP11QCR15036A	0.50	0.40	SP11QCT15036A	0.50	0.40
40	SP11QCR15040A	0.45	0.40	SP11QCT15040A	0.45	0.40
50	SP11QCR15050A	0.45	0.40	SP11QCT15050A	0.45	0.40
60	SP11QCR15060A	0.45	0.40	SP11QCT15060A	0.45	0.40
80	SP11QCR15080A	0.40	0.40	SP11QCT15080A	0.45	0.40
100	SP11QCR15100A	0.45	0.40	SP11QCT15100A	0.45	0.40
120	SP11QCR15120A	0.45	0.40	SP11QCT15120A	0.45	0.40

Material - Aluminum Oxide Dia. (in.) - 2						
Grit	Roll-On			Turn-On		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
24	SP11QCR20024A	0.55	0.45	SP11QCT20024A	0.55	0.45
36	SP11QCR20036A	0.50	0.45	SP11QCT20036A	0.55	0.45
40	SP11QCR20040A	0.50	0.40	SP11QCT20040A	0.50	0.40
50	SP11QCR20050A	0.50	0.40	SP11QCT20050A	0.50	0.40
60	SP11QCR20060A	0.50	0.40	SP11QCT20060A	0.50	0.40
80	SP11QCR20080A	0.45	0.40	SP11QCT20080A	0.45	0.40
100	SP11QCR20100A	0.45	0.40	SP11QCT20100A	0.45	0.40
120	SP11QCR20120A	0.45	0.40	SP11QCT20120A	0.45	0.40

1-1/2" Holders: Roll-On - MM59-61174 Turn-On - MM59-64146

2" Holders: Roll-On - MM59-64922 Turn-On - MM59-64198

A555

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



Dia. (in.)	Max. RPM	Grit	Color	Std. Pk.	Order No.	Regular Price	SALE
1.5	30000	CRS	Brown	50	TM2108764	0.95	0.85
1.5	30000	MED	Maroon	50	TM2108765	0.95	0.85
1.5	30000	VFN	Blue	50	TM2108766	0.95	0.85
2	25000	CRS	Brown	50	TM2105528	1.40	1.30
2	25000	MED	Maroon	50	TM2105527	1.40	1.30
2	25000	VFN	Blue	50	TM2105523	1.40	1.30
3	18000	CRS	Brown	25	TM2105532	2.65	2.40
3	18000	MED	Maroon	25	TM2105531	2.65	2.40
3	18000	VFN	Blue	25	TM2105530	2.65	2.40

Holder: MM59-64922

A512

3M Cubitron™ II Fibre Discs 982C

Dare To Wear It Out!

- With the 982C, you get a disc that cuts faster, lasts longer and requires less grinding pressure than conventional abrasives



Dia. (in.)	Hole Size (in.)	Grit	Max RPM	Std. Pack	Order No.	Regular Price	SALE
4-1/2	7/8	36	13300	100	TM1127400	4.80	4.30
4-1/2	7/8	36	13300	100	TM1127425	5.15	4.65
4-1/2	7/8	60	13300	100	TM1127631	4.30	3.85
4-1/2	7/8	80	13300	100	TM1127635	4.05	3.65
4-1/2	TN	60	13300	100	TM1127639	4.60	4.15
4-1/2	TN	80	13300	100	TM1127642	4.30	3.85
5	7/8	36	12000	100	TM1127401	4.80	4.30
5	7/8	60	12000	100	TM1127632	4.30	3.85
5	7/8	80	12000	100	TM1127636	4.05	3.65
5	TN	36	12000	100	TM1127404	5.15	4.65
5	TN	60	12000	100	TM1127640	4.60	4.15
5	TN	80	12000	100	TM1127643	4.30	3.85
7	7/8	36	8600	100	TM1127402	5.55	5.00
7	7/8	60	8600	100	TM1127633	4.95	4.45
7	7/8	80	8600	100	TM1127637	4.65	4.20
7	TN	36	8600	100	TM1127405	5.95	5.35
7	TN	60	8600	100	TM1127641	5.25	4.70
7	TN	80	8600	100	TM1127644	4.95	4.45

TN = 5/8-11 Quick Change

A579



Trimmable Premium Ceramic Flap Discs

★★NEW★★

- Built in hub allows for easy off/on and closer disc placement to the tool
- C3 Ceramic for aggressive cutting action
- Self sharpening ceramic grain and cool grinding aid
- Ideal for hard to grind materials including steel and other heat sensitive materials



Size (in.)	Grit	Hole Size	Order No.	Regular Price	SALE
4-1/2	40	5/8-11	SP11FT45H27040C	10.30	8.20
4-1/2	60	5/8-11	SP11FT45H27060C	9.15	7.30
4-1/2	80	5/8-11	SP11FT45H27080C	8.80	7.00
6	40	5/8-11	SP11FT60H27040C	11.70	9.30
6	60	5/8-11	SP11FT60H27060C	11.05	8.80
6	80	5/8-11	SP11FT60H27080C	11.00	8.75

A693

MEASURING TOOLS



0-6" Dial-Cal Calipers

- Range per revolution .100"
- Stainless steel construction
- Adjustable zero set
- 1.25" Diameter rotating dial with lock
- Anti-backlash, shockproof design
- Measure four ways: inside, outside, depth and step
- Graduation .001"



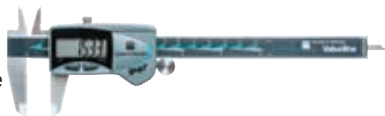
Model No.	Dial Face Color	Order No.	Regular Price	SALE
599-579-4	White	MV4551774	166.00	149.40
599-579-5	Black	MV4551879	166.00	149.40

MT743



IP67 Electronic Calipers

- Perform inside, outside, depth and step measurements
- IP67 level protection from dust and liquids
- 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



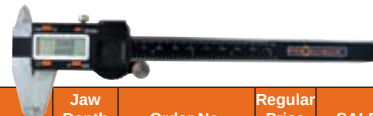
Range	Resolution	Model No.	Order No.	Regular Price	SALE
0 - 6 / 0 - 150mm	.0005" / 0.01mm	00599390	MV4545601	143.00	128.70
0 - 8 / 0 - 200mm	.0005" / 0.01mm	00599392	MV4545602	196.00	176.40

MT1300



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	Resolution	Jaw Depth	Order No.	Regular Price	SALE
0 - 6 / 0 - 150mm	.0005" / 0.01mm	1-9/16	PC20EC061505	63.10	50.10
0 - 6 / 0 - 150mm	.0005" / 0.01mm, 64ths	1-9/16	PC20EC06150F	63.10	50.10
0 - 8 / 0 - 200mm	.0005" / 0.01mm	1-15/16	PC20EC082005	100.40	79.70
0 - 12 / 0 - 300mm	.0005" / 0.01mm	2-1/2	PC20EC123005	148.60	117.90

MT1273



Heavy Duty Electronic Long Range Calipers

- Resolution: .0005"/0.01mm
- Preset mode for outside and offset for inside jaws
- Inch / metric conversion and hold feature
- Data output port (USB/SPC kit optional)
- Supplied with storage case
- Replacement battery: KA56ECR2032



Measuring Range	Resolution	Jaw Depth	Order No.	Regular Price	SALE
0 - 24 / 0 - 600mm	.0005" / 0.01mm	4	PC20EC246005HD	358.10	284.10
0 - 40 / 0 - 1000mm	.0005" / 0.01mm	6	PC20EC4010005HD	800.65	635.20

MT1274



Long Range Dial Calipers

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



Range (in.)	Order No.	Regular Price	SALE
0 - 18	NA5552008018	247.10	222.40
0 - 24	NA5552008024	299.45	269.55

MT1030



IP54 Depth Micrometer

Coolant, Water & Oil Resistant

- Range: 0-6"/0-150mm
- 4" Base: hardened tool steel, precision ground & microlapped
- Protected to IP54 standards
- Resolution: .00005"/0.001mm
- Direct RS232 output
- Automatic switch off
- Large LCD display



Order No.	Regular Price	SALE
NA5554225456	218.25	196.45

MT981



Economy Depth Micrometers

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



Measuring Range	Base Length	Order No.	Regular Price	SALE
0 - 4	2-1/2	NB60DM042	63.80	47.00
0 - 6	4	NB60DM064	59.90	49.35

MT1031

Starrett EC799 Electronic Caliper

- Resolution .0005" / 0.01mm
- Lightweight, ergonomic design
- Easy access to the single, long-life battery
- Last measuring position retained when shut off
- Hardened stainless steel body for long life
- Fine adjustment thumb wheel
- Lock screw to hold the slide in position
- Integrated depth rod
- Zero at any position



Order No.	Regular Price	SALE
MV7000142	156.00	140.00

MT1405

MEASURING TOOLS

PRO-CHECK Long Range Dial Test Indicators - .060" Range

- .060" Long range travel
- Jeweled movement and easy-to-read, tilted dial
- Automatic reversal and revolution counter
- Tungsten carbide point capable of 210° Swivel arc
- Supplied with (1) each 5/32" and 3/8" dovetail stems and 3 carbide tip contact points, .040, .080, .120 diameter tip x 11/16" long
- Storage case supplied



Graduations	Dial Face Dia.	Face Color	Order No.	Regular Price	SALE
.001"	1"	White	PC21TI0601021W	126.75	93.40
.0005"	1"	White	PC21TI0601035W	126.75	93.40
.0005"	1-1/2"	White	PC21TI0601535W	126.75	93.40
.0005"	1-1/2"	White	PC21TIV0601535W†	126.75	93.40

† Vertical model

MT1264

Interapid Dial Test Indicators

- Two way action - no reversing lever
- Carbide contact point
- Ball bearings and jeweled movement
- Extremely low measuring pressure
- Precise repetitive readings
- Points are interchangeable between .0005" and .001" indicators
- Contact point swivels 210°
- Shank diameter - 5/32"
- Diameter ball - .080"



MV4042775

MV4041686

Indicator Style - Horizontal, Long Range							
Graduation (in.)	Total Range (in.)	Contact Length (in.)	Dial Face Dia. (in.)	Model No.	Order No.	Regular Price	SALE
.001	.060	11/16	1	312B-20	MV4041682	281.00	262.75
.0005	.060	11/16	1-1/2	312B-1	MV4042775	278.00	249.45
.0005	.060	11/16	1	312B-2	MV4086150	276.00	247.65

Indicator Style - Horizontal, Short Range							
Graduation (in.)	Total Range (in.)	Contact Length (in.)	Dial Face Dia. (in.)	Model No.	Order No.	Regular Price	SALE
.0001	.016	11/16	1	312B-4	MV4041681	347.00	324.45
.0001	.016	11/16	1-1/2	312B-3	MV4041680	342.00	306.85

Indicator Style - Vertical, Long Range							
Graduation (in.)	Total Range (in.)	Contact Length (in.)	Dial Face Dia. (in.)	Model No.	Order No.	Regular Price	SALE
.001	.060	11/16	1	312B-20V	MV4041687	281.00	262.75
.0005	.060	11/16	1	312B-2V	MV4041686	291.00	272.10
.0005	.060	11/16	1-1/2	312B-1V	MV4041685	296.00	276.80

MT769

brown & sharpe Test Indicators

- .030" Total Range
- Dial reading .0005"
- Graduations .0005"
- Black dial face



MT1215

Model No.	Face Dia. (in)	Order No.	Regular Price	SALE
01889018	1.26	MV4547439	102.00	96.90
01889023	1.54	MV4547440	102.00	96.90

BAKER AGD Dial Indicators

- Fitted with brass bushing
- Tolerance pointers
- Forged brass case with satin chrome finish
- Lug back



ISO 9002

Range	Graduation	Reading	Type	Order No.	Regular Price	SALE
.050	.0001	0-50-0	AGD 2	NB73KB59	78.70	70.10
.250	.001	0-100	AGD 2	NB73KB46	41.00	36.55
.500	.0005	0-25-0	AGD 2	NB73KB53	47.45	42.30
.500	.0005	0-50	AGD 2	NB73KB54	47.45	42.30
.500	.001	0-100	AGD 2	NB73JB52	38.85	34.65
1.000	.001	0-100	AGD 2	NB73KB50	41.00	36.55
2.000	.001	0-100	AGD 3	NB73JB76	161.70	144.05

MT679

Fowler Test Indicator Set with Certificate of Calibration

- Auto-reverse
- Jewelled movement
- Total range: ± 0.030 "
- Dial reading: 0-15-0
- Graduation: .0005"
- Dial diameter: 1.125"
- Point length: .400"
- Includes .080" and .040" carbide contact points, universal clamp, height gage attachment, 3/8" and 1/4" dovetail extensions in a fitted molded case.



Order No.	Regular Price	SALE
NA5552562999	121.30	109.20

MT1311

MEASURING TOOLS

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



Range (in.)	Thimble	Accuracy	Order No.	Regular Price	SALE
0 - 1 / 0 - 25.4mm	Ratchet Stop	±.00005	MT80293-340-30	187.00	166.55
1 - 2 / 25.4 - 50.8mm	Ratchet Stop	±.00005	MT80293-341-30	243.00	212.30
2 - 3 / 50.8 - 76.2mm	Ratchet Stop	±.00005	MT80293-342-30	303.00	264.70
3 - 4 / 76.2 - 101.6mm	Ratchet Stop	±.0001	MT80293-343-30	363.00	317.10

MT1293

Fowler XTRA-VALUE II 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



Range (in./mm)	Order No.	Regular Price	SALE
0 - 1 / 0 - 25mm	NA5554870001	89.10	80.20
1 - 2 / 25 - 50mm	NA5554870002	90.25	81.25
2 - 3 / 50 - 75mm	NA5554870003	106.00	95.40
3 - 4 / 75 - 100mm	NA5554870004	112.50	101.25
0 - 3 / 0 - 75mm	NA5554870103	309.00	278.10

MT1126

Fowler XTRA-VALUE 9" Electronic Level

Fowler's 9" Laser Level provides instant 4 x 90° digital inclination display. With embedded magnets on its measuring surface, a beamsplitter projects a 90° laser cross hair for leveling at a distance. It also includes a 1/4-20 mount for tripod use.

- Measuring range: 4 x 90°
- Resolution: .05°
- Accuracy: ±.2°
- Repeatability: ±.05°
- Standard 9 volt battery (250 hours life)
- Dimensions: 9"L x 1"W x 2-1/4"H
- Includes two way level and plumb vials
- Reversible reading for inverted use
- Bar not included



Order No.	Regular Price	SALE
NA5554440600	71.30	64.20

MT1082

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



Type - Inch						
Type	Range (in.)	Graduation (in.)	Reading	Order No.	Regular Price	SALE
Horizontal	.030	.0005	0-15-0	MT80513-402T	154.00	134.55
Horizontal	.008	.0001	0-4-0	MT80513-403T	198.00	173.00
Long Point	.030	.0005	0-15-0	MT80513-412T	215.00	187.85

Type - Metric						
Type	Range (in.)	Graduation (in.)	Reading	Order No.	Regular Price	SALE
Horizontal	.2mm	0.002mm	0-100-0	MT80513-405T	191.00	166.85

MT924

INSIZE Digital Outside Calipers

- Battery CR2032
- Data output
- Made of stainless steel
- Supplied with certification

★★NEW★★



Range	Resolution	Model No.	Order No.	Compare To	SALE
0 - 6 / 0 - 150mm	.0005 / 0.01mm	1108-150	SZ201108150	156.00	54.10
0 - 8 / 0 - 200mm	.0005 / 0.01mm	1108-200	SZ201108200	224.00	80.00
0 - 12 / 0 - 300mm	.0005 / 0.01mm	1108-300	SZ201108300	450.00	119.90

MT1426

Fowler Electronic Calipers

- Water Resistant IP54
- Resolution: .0005"/0.01mm
- Large easy-to-read LCD display- patented ceramic chip
- Stainless steel frame
- Direct inch/metric conversion
- 4-Way measurement
- Includes molded case



Range	Accuracy	Order No.	Regular Price	SALE
0 - 6 / 0 - 150mm	±.001"/0.02mm	NA5554100777	130.75	117.70
0 - 12 / 0 - 300mm	±.001"/0.02mm	NA5554100712	190.15	171.15

MT974

MEASURING TOOLS

Mitutoyo Series 1 Dial Indicators

- .250" Total Range
- .001" Graduation
- .100" Range per revolution
- 1-5/8" Diameter face
- Vertically mounted lug on center back
- Ball type contact point



MT1430

Dial Reading	Order No.	Regular Price	SALE
0-100	MT801410S	108.00	94.35
0-50-0	MT801411S	108.00	94.35

Fowler FLEXMAG SET[®] Chrome Indicator/Mag Base Set

AGD Indicator Features:

- AGD Group 2
- Dial diameter: 2-1/4"
- Travel: 1"
- Reading: .001"
- Continuous reading: .100"
- Carbide tipped point



Flex Arm Mag Base Features:

- Corrosion resistant chrome plated flex arm
- 85lb. pull magnet
- Holds rigidly in almost any position
- V-base for mounting on rounded surfaces



Magnetic Indicator Back Features:

- Use for positioning the indicator on most metal surfaces
- Protective coating

All packed in a shop hardened case!

Order No.	Regular Price	SALE
NA5552585500	178.45	160.65

MT976

PROCHECK Magnetic Bases

Standard/Fine Adjustment Stand

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



NL80340

Universal Base Features:

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

NL80TMBUM



Heavy Duty Magnetic Vee Base Only

- 110 Lb. Pull
- On/off switch

NL80TMBA

Description	Order No.	Regular Price	SALE
Standard	NL80300	18.35	14.60
Fine Adjustment	NL80340	21.15	16.80
Universal with 3-D Locking Mechanism	NL80TMBUM	49.90	39.60
Replacement Base only for ProCheck Mag Bases	NL80TMBA	14.55	11.55

MT1063

PROCHECK Universal Articulating Arm Magnetic Base

- Articulating arm adjusts to multiple configurations
- 85 lbs pull magnetic base
- V-slot base for rounded work

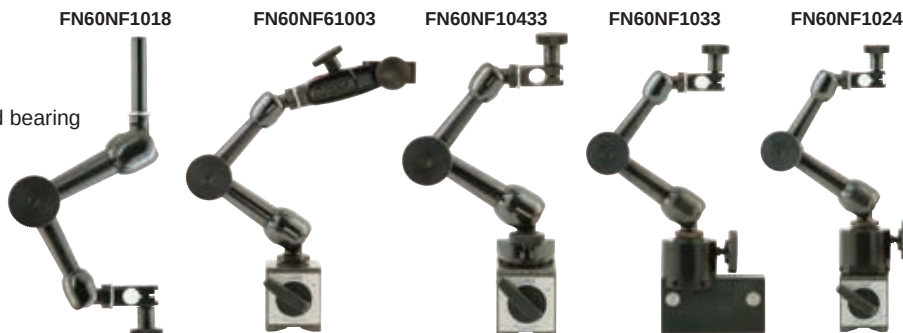


MT1262

Order No.	Regular Price	SALE
PC21MBAA85LB	71.50	52.70

NINOGA 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



Description	Stem Hole	Magnetic Pull	Order No.	Regular Price	SALE
Axial support for centering on milling machines, 8mm stem for collet mounting	3/8	-	FN60NF1018	68.20	60.75
Flex Dial Gage Holder with Fine Adjustment on Top Clamp	3/8, 6mm, or 8mm	70 lbf	FN60NF61003	92.80	82.65
Power On/Off Flex Holder with Fine Adjustment at Base-Standard Arm	3/8	70 lbf	FN60NF10433	100.95	89.95
Always-On Flex Dial Gage Holder with 360 Degree Fine Adj at Base	3/8	61 lbf	FN60NF1033	114.60	102.10
Flex Dial Gage Holder with 360 Degree Fine Adj at Base	3/8	70 lbf	FN60NF1024	116.60	103.85

MT877

MEASURING TOOLS

MAG-MATE Stainless Steel Inspection Mirrors

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

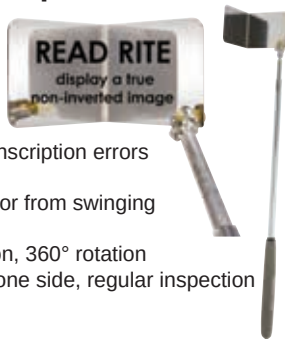
Shape	Mirror Size (in.)	Handle	Minimum Length (in.)	Extended Length (in.)	Order No.	Regular Price	SALE
Round	3/8	Copper	11-1/2	11-1/2	NE70IMS103	20.95	19.00
Round	1/2	Copper	12	12	NE70IMS105	21.00	19.15
Round	1-1/4	Stainless Steel	7	35	NE70IMS115	21.35	19.45
Round	2-1/4	Stainless Steel	7	36	NE70IMS123	21.55	19.65
Oval	2 x 1	Stainless Steel	7	36	NE70IMS210	22.00	20.00
Rectangular	2 x 2	Stainless Steel	7	35-1/2	NE70IMS223	21.80	19.85
Rectangular	3 x 2	Stainless Steel	7	37	NE70IMS234	21.90	19.95



MT1243

MAG-MATE Read Rite™ Inspection Mirror

- Allows the user to see a non-inverted image in difficult viewing locations
- The Read Rite™ mirror shows the numbers as they would be if they were visually accessible with the eye thereby virtually eliminating deciphering and transcription errors
- Stainless steel mirror-no glass to break
- Telescoping hex rod shaft prevents mirror from swinging while in use
- Double ball hinge with adjustable tension, 360° rotation
- Dual sided- has Read Rite™ mirror on one side, regular inspection mirror on the other
- Non-slip and solvent resistant
- Mirror measures 3-1/2 x 2"
- Extendable handle reaches 15-1/2 to 28-1/2"



Order No.	Regular Price	SALE
NE70390SS	23.15	21.10

MT1244

PRO-CHECK Aspheric Magnifier

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



Order No.	Regular Price	SALE
KA53V341D	14.50	12.95

MT1255

PRO-CHECK LED Lighted 10X Optical Comparator - Multi Scale Lens

- 8 LED ring illumination
- Multiple read reticule included*
- Knurled focus ring with cover
- Storage case included
- Supplied with (4) AG9 button type batteries
- *Multi read reticule includes the following scales and templates:
 - 0-90° angle and 0.01 to 10mm radius
 - 10mm-0-10mm center scale
 - 1/2" by 1/10th and 1/8" by 1/64th scales
 - 0.1 to 1.0mm, .005" to .050" and 1/64th to 1/16th diameter templates
 - 29°, 55°, 60° and 118° included angle



Order No.	Regular Price	SALE
PC22L10XLED	102.45	75.50

MT1241

GENERAL Wet / Dry Video Scopes

- Standard probes are 1m long
- Monitors include 3.5" (89mm) diagonally color LCD with 320 x 240 pixel resolution
- Video shown on monitor can be inverted 180°
- IP67 rating eliminates concerns about accidentally dropping or dunking grip or monitor into water, makes it possible to inspect sewer and water lines carrying running water
- Grip, probe, and monitor are guaranteed leakproof to depth of 1m



★★NEW★★

Description	Order No.	Regular Price	SALE
Non-recording with 8mm probe	NB49DCS600A	189.00	169.60
Recording with 8mm probe	NB49DCS660A	299.00	268.30

MT1421

GENERAL Digital Multimeter

- Auto Ranging
- CAT III 600V
- 8 Functions
- 25 Ranges
- Measures AC/DC voltage, AC/DC current, resistance, diode integrity
- Maximum voltage resolution 0.5mV
- Backlit LCD

★★NEW★★



Order No.	Regular Price	SALE
NB49DMM45	30.00	26.95

MT1417

LANG CAT III Digital Multimeter Kit

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



Order No.	Regular Price	SALE
KL4013803	141.65	113.30

MT1247

MEASURING TOOLS

INSIZE Digital Measuring Microscope

10X - 200X Power

- Short focus distance type
- Illumination built in adjustable LED
- Power supply USB
- Can take pictures and videos
- Supply with software
- Class 2B
- Standard ANSI B1.2

★★NEW★★



Order No.	Price
SZ20ISMPM200SB	390.00

MT1428

Fowler Deluxe Stereo Microscope

- 20-40x Magnification
- Includes 2x and 4x objectives, 10x eyepieces, eyecups and dust cover
- Sharp image definition
- Rack and pinion focusing
- Two 3.5" (95mm) stage plates provided: clear and reversible white/black
- Top and bottom illumination
- 15x and 20x eyepieces available



Order No.	Regular Price	SALE
NA5553640902	529.95	477.00

MT1099

Starrett Angle Meter

- Large scale for reading
- 5" x 5" Magnetic base and back
- Pitch/angle calculator finds rise, run, angle, pitch information on back of tool



Order No.	Regular Price	SALE
MV8036080	15.85	14.25

MT214

Fowler Portable Durometers

Fowler's Portable Durometers are just right for testing the hardness of flexible materials such as rubber and plastics. These gages conform to shore scales.

- Manufactured in accordance with DIN, ASTM, ISO and JIS specifications
- Includes reference test block, operating instructions and fitted case
- Optional bench stand available
- Graduations: 1 shore



Applications:

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

Penetrator	Shore Scale	Order No.	Regular Price	SALE
Blunt Taper 35°	A	NA5553762101	291.30	262.20
Sharp Point 30°	D	NA5553762102	288.75	259.90

MT1113

Mitutoyo Digimatic Indicator

575 Series - Model IDU

- Range: 0-1" / 0-25mm
- Display: .0005" / 0.01mm
- Easy to read LCD
- SPC output
- Slim design fits into tight spaces
- Battery powered for portability
- Functions include: in/mm conversion, zero-set and on/off
- Supplied with lifting lever
- Flat back only



Order No.	Regular Price	SALE
MT80575-123	195.00	188.80

MT633

GENERAL Mini Digital Contact and Non-Contact Tachometer

- Auto range function
- Two operating buttons for easy use, low battery icon
- Auto power off
- Hold function
- Displays ft./min., meter/min., and yards/min
- Range: 10.0 to 99,999 RPM
- Power supply: AA battery (included)
- Sampling time: 1 second



Order No.	Regular Price	SALE
NB49PCT2236	130.00	116.65

MT1253

MEASURING TOOLS

Mitutoyo 6" / 150mm Digimatic Calipers

- Both a 5 digit LCD display and an imprinted line scale
- Convenient thumb wheel
- Stainless steel construction
- Inside, outside, depth and step measurements
- Absolute scale
- Repeatability: .0005"
- Control switch: on/zero off, inch/metric, data/hold



Measuring Range	Comments	Order No.	Regular Price	SALE
0 - 6 / 0 - 150mm	With Output	MT80500-171-30	183.00	177.15
0 - 6 / 0 - 150mm	Without Output	MT80500-196-30	156.00	136.30

MT1429

PRO-CHECK Stainless Steel Dial Calipers

- Range per revolution .001"
- Covered rack for longer caliper life, keeps chips out
- Measuring face hardened stainless, ground and lapped
- Satin-chrome finish
- Complete with fitted case



Measuring Range (in.)	Graduation	Remarks	Dial Face Color	Order No.	Regular Price	SALE
0 - 4	.001	-	White	NB60CDC4	32.20	23.75
0 - 6	.001	-	White	NB60CDC6	38.50	28.40
0 - 6	.001	Carbide jaws	Black	NB60CDC6CJ	73.30	54.05
0 - 6	.001	Inch dial with inch/metric scale on rack	White	NB60CDC6EM†	33.30	24.55
0 - 8	.001	-	White	NB60CDC8	54.45	40.15
0 - 12	.001	-	White	NB60CDC12	78.85	58.10

MT945

Machinery's Handbook & Calc Pro 2 Combos 30th Edition

The Machinery's Handbook along with a Calc Pro 2

Calculator Features:

- Materials function: users can choose from 20 popular materials
- Processes: face milling, end milling, slot milling, turning, boring, drilling
- Speeds and feeds
- Work in and convert between US and metric units



Description	Order No.	Regular Price	SALE
30th Ed. Large Print Handbook 7 x 10" & Calc Combo	MY5036109	179.95	160.90
30th Ed. Toolbox Handbook 4.6 x 7" & Calc Combo	MY5036093	159.95	143.05

MT1412

Fowler 0-1" Travel Dial Indicators

With Free Procheck Magnetic Base

Indicator:

- Graduation: .001", range: 0-1"
- Continuous reading: 0-100
- Revolution counter hand
- Meets AGD specifications

Procheck Mag Base:

- Fine adjustment
- Accepts all AGD indicators & stem mount test indicators with 1/4" shank
- V-base for use on rounded surfaces



Set Contains	Order No.	Regular Price	SALE
Fowler 0-1" Travel Standard White Dial Indicator Without Certification- With ProCheck Fine Adjustment Mag Base	NB6552520110MB	49.95	39.65
Fowler 0-1" Travel Premium Black Dial Indicator With Certification With ProCheck Fine Adjustment Mag Base	NB6552520110BMB	49.95	39.65

MT1309

PRO-CHECK IP54 Dial Indicator - 1" Travel, .001" Graduation

- IP54 protection, shockproof design
- Rubber bellow on stem and o-ring seal safety cap
- O-ring protection for bezel and dial
- Sealed back plate (lug back)
- Tolerance markers
- AGD Group 2
- Lug back and carbide point



Range per Revolution	Dial Reading	Dial Face Dia.	Face Color	Order No.	Regular Price	SALE
.100	0-100	2-1/4	White	PC21DI211IP5SP	47.75	35.20

MT1271

Fastener Black Books

- Technical fastener resource consolidating the abundance of fastener information into an easy-to-read user friendly format
- Pages are durable, tear resistant and glare-free
- Pages can be easily wiped clean, so this reference book is perfect for shop environments
- Great tool for engineers, apprentices, trainees, tradesmen, machinists, machine shops, tool rooms, technical colleges, fabricators, sheet metal workers, etc.

★★NEW★★



FBBINCH

FBBUSA

Description	Order No.	Regular Price	SALE
Inch Size Only	MY55FBBINCH	28.00	25.05
Inch/Metric	MY55FBBUSA	28.00	25.05

MT1414

MEASURING TOOLS

Starrett® Exact® Plus Tape Measures

- Graduated in 16ths
- Wider blade providing a 9' stand out
- Nylon coated blade provides 6X abrasion resistance
- PC-ABS plastic case and heavy overmolding
- Positive lock holds blade firmly in place
- Black anodized steel belt clip



Size	Model No.	Order No.	Regular Price	SALE
1.06" x 16'	KTXP106-16N	MV8030636	15.80	14.20
1.06" x 25'	KTXP106-25N	MV8030638	21.85	19.65
1.06" x 30'	KTXP106-30N	MV8030641	26.10	23.45
1.06" x 35'	KTXP106-35N	MV8030645	29.40	26.40

MT1220

Lufkin® Control Series Tape Measures

- The Drag Strip™ access opening on the bottom of the tape allows users to regulate blade feed and return with their fingertip for greater control
- Rigid extra wide blade provides 10' of stand out
- Wide end hook holds better and makes marking easier
- D-ring for tether strap or easy hanging storage
- Durable molded case allows for added control and grip



Size	Type	Order No.	Regular Price	SALE
3/4 x 16'	English	MZ50CS8516	12.30	11.00
1-3/16 x 25'	English	MZ50CS8525	17.70	15.85
1-3/16 x 26' (8M)	Metric/English	MZ50CS8525CME	17.70	15.85

MT1222

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	15.55	13.95

MT1039

KOMELON® The Professional™ Power Tapes

- Impact resistant case construction designed for comfort and strength
- Nylon coated blade for maximum durability
- Inch/metric scale



Model No.	Width	Length	Order No.	Regular Price	SALE
4912IM	5/8	12'/3.5m	MZ554912IM	5.00	4.50
4916IM	3/4	16'/5m	MZ554916IM	7.30	6.55
4925IM	1	25'/7.5m	MZ554925IM	9.50	8.50
4930IM	1	30'/9m	MZ554930IM	11.50	10.25

MT1280

Starrett® Aluminum Straight Edge Rules

- English measure
- Flexible anodized aluminum
- 2" Width
- 1/8" & 1/16" Graduation



Length (in.)	Thickness (in.)	Model No.	Order No.	Regular Price	SALE
24	.081	ASE24	MV8036090	6.20	5.60
36	.081	ASE36	MV8036091	8.00	7.20

MT737



Combination Square Set

TiN Coated

- Blade & protractor scale are TiN coated for extra wear resistance
- 12" Blade with 4B graduation in 8ths, 16ths, 32nds & 64ths
- Complete with plastic blow molded storage case
- AVAILABLE WHILE SUPPLIES LAST



Order No.	Regular Price	SALE
NB407118012HTN	222.95	192.80

MT1020

Empire® Professional Combination Squares

- 90° and 45° head
- Steel blade
- Self aligning drawbolt
- Full view acrylic vial
- 16" Graduations: 1/8", 1/16"



Size (in.)	Order No.	Regular Price	SALE
12	KP75230	10.45	9.35
16	KP75280	18.10	16.20

MT696

PRO-CHECK® Multi-Use Rule and Gage

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



Order No.	Regular Price	SALE
NE60DPG1	9.95	7.90

MT1303

PRO-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	39.95	29.45

MT250

PRO-CHECK Planer & Shaper Gage with Level

- All working surfaces are precision ground and held to close tolerances
- Well balanced base helps avoid tipping
- Has 3" extension with knurled grip
- A level is provided in the base for machine setups and gage work
- Range: 1/4 to 9-1/4"
- Base size: 5-1/4" long x 3/4" wide



Order No.	Regular Price	SALE
NC52NPG599	88.50	78.85

MT086

PRO-CHECK Tri-Block Sets

Premium 1-2-3 Block Set:

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

Economy Tri Blocks:

- Hardened 55 to 62 Hrc
- Tolerance .0003" to .0005" (0.005mm to 0.010mm for metric blocks)



PR123

Type - Economy Tri Blocks			
Size (in.)	Order No.	Regular Price	SALE
1 x 2 x 3	NM52E123	14.20	11.30
2 x 4 x 6	NM52PR246	143.00	113.45
25 x 50 x 75mm	NM52E25M	23.90	19.00

Type - Premium Tri Blocks Set			
Size (in.)	Order No.	Regular Price	SALE
1 x 2 x 3	NM52PR123	32.60	25.90

MT200

Fowler X-BLOX V-Block Set

2 Each @:

- Dimensions: 1-1/2"L x 1-1/4"W x 1-1/4"H
- Work capacity: approximately 1"

2 Each @:

- Dimensions: 2"L x 1-1/2" x 1-1/2"H
- Work capacity: 1-1/2"

All Feature:

- Surfaces are square and parallel within .0005"
- V-Grooves are square and parallel with all surfaces within .0005"
- Corresponding dimensions for each pair are alike within .0005"
- All enclosed in shop hardened case



Order No.	Regular Price	SALE
NA5552475500	122.45	110.25

MT682

Fowler Machinist Jack Set

- Set consists of 2 machinists jacks in a shop-hardened case
- Individual jacks consist of a heavy, steel cast 1-1/2" base with adjustable steel screw and tilting swivel head, with a lock nut for permanent positioning
- Range: min. 3"; max: 4"
- Capacity: 1000 lbs.

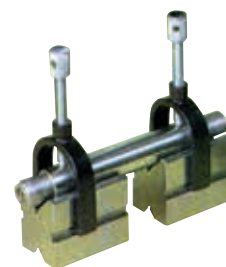


Order No.	Regular Price	SALE
NA5552104025	18.05	16.25

MT1047

PRO-CHECK V-Block Sets

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



Capacity (in.)	Size (in.)	Order No.	Regular Price	SALE
1	1-1/4 x 1-1/4 x 1-5/8	NG52NVB117	30.25	24.05
1-1/2	1-5/8 x 1-3/4 x 2-3/4	NG52NVB150	41.25	32.75

MT968

PRO-CHECK Ultra Thin Style Steel Parallels

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



Order No.	Regular Price	SALE
NM55UTPS20	79.05	70.45

MT1092

MEASURING TOOLS

PRO-CHECK Workshop Measuring Sets

Description	Order No.	Regular Price	SALE
2, 3, 4, & 6" Squares in storage box	NE604PCMTS	59.95	47.60
2, 4, & 6" Squares, 1-1/2" capacity center finder, 5 & 6" long scribes in storage box	NE606PCMTS	63.95	50.75
Scriber, 3" divider, 1/32-5/8 bore gage, screw cutting gage, 4-42 & 0.25-6.0mm screw pitch gage, 4"/100mm brass caliper, automatic center punch, protractor/depth gage, 6"/150mm flexible rule, 4" steel square, storage box	NE6011PCMTS	79.95	63.45



MT1302

Mitutoyo Precision Tool Kit

Dial Test Indicator 513-907

- Graduation: .0005"
- Range: .030"
- Dial reading: 0-15-0
- Jeweled bearings, anti-magnetic
- 3/8" Stem
- Accepts 3/8" or 5/32" holding stems, plus dovetail groove
- 150N Magnetic force



Order No.	Regular Price	SALE
MT80513-907	215.00	187.85

MT849

PRO-CHECK Magnetic Dial Protractor

With Center Punch

- Used to determine angles on machine setup or find and mark center of square or round stock
- 0 - 90°
- 4-Quad



Order No.	Regular Price	SALE
PC23MP490V	169.95	125.20

MT1321

Starrett Exact® Torpedo Level

Magnetic Frame

- Measures 9-1/2" (240mm)
- Finished with an aluminum frame and red high visibility paint
- Impact resistant ABS plastic end caps
- Vertical, horizontal, and 45° vials
- Milled top surface finished with a V-groove
- Magnetic bottom surface



Order No.	Regular Price	SALE
MV8030727	18.85	16.95

MT1221

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



Type - 2-Pack Blue Tempered Shim Stock Sheets				
Size (in.)	Thickness (in.)	Order No.	Regular Price	SALE
6 x 25	.008	MA5223170	52.25	41.50
6 x 25	.010	MA5223180	56.95	45.20
6 x 25	.012	MA5223200	58.75	46.65
6 x 25	.015	MA5223220	63.90	50.70
6 x 25	.020	MA5223240	74.35	59.00
6 x 25	.025	MA5223260	84.95	67.40
6 x 25	.032	MA5223280	94.15	74.70

Type - Blue Tempered Shim Stock Roll				
Size (in.)	Thickness (in.)	Order No.	Regular Price	SALE
3 x 50	.002	MA5223110	44.05	35.00
3 x 50	.003	MA5223120	46.20	36.70
5 x 50	.004	MA5223130	49.95	39.65
6 x 50	.005	MA5223145	44.05	35.00
6 x 50	.006	MA5223155	43.85	34.80
6 x 50	.007	MA5223165	44.75	35.55

MT970

GENERAL Digital Stop Watch

- Normal time shows: hour, minute, second, AM/PM indicator, month, date, day
- 12/24 Hour user selectable
- 1/100 Second chronograph
- 8 Recalable lap memories
- Count-down timer with one second ew's



Order No.	Regular Price	SALE
NB49SW269	20.00	17.95

MT964

Starrett Key Caddy

- Heavy duty die cast case
- 21" Stainless steel chain
- Large key ring
- Belt clip
- Returns keys and other articles automatically
- Great for welders to carry torch ignitors



Order No.	Regular Price	SALE
MV8063135	10.45	9.40

MT1033

PRM 6" & 8" Grinders

Features:

- Built in light
- Adjustable safety shield
- Tool Rest
- Cooling tray
- 1 Ea. - 36 Grit and 60 Grit Aluminum Oxide grinding wheels
- CSA Approved
- One Year Warranty

★★NEW★★



Model No.	Wheel Size	RPM	Motor	Weight	Order No.	Regular Price	SALE
G6	6"OD x 3/4"W x 1/2" Hole	3450	1/2HP, 120V	25 lbs.	PR80G6	79.95	58.35
G8	8"OD x 1"W x 5/8" Hole	3450	3/4HP, 120V	33 bls.	PR80G8	99.95	80.00

F.O.B. Warren, MI.

M1567

PRM 12" Disc Sander

Features:

- 0-45° Table Tilt
- 12" Cast Aluminum Disc
- Precision Ground Cast Iron Table
- Table size 6" W x 17" L
- Safety Key Operated Switch
- CSA Approved
- Includes 1- 12" Sanding Disc
- One Year Warranty

★★NEW★★



Model No.	Disc Size (in.)	Disc Speed	Motor	Weight	Order No.	Regular Price	SALE
DS12B	12	1450 RPM	1HP, 120V	70 lbs.	PR78DS12B	199.95	165.00

F.O.B. Warren, MI.

M1566

Align Table Powerfeed

- Speed range: 0 to 160 RPM
- Bevel Drive Gear Rate: 4.8:1
- Torque rating: 780 IN-LB (900Kg/cm)
- Power: 1 Amp/1 Phase/110 Volt
- Weight: 15 lbs.
- 1 Year Warranty

WORLD CLASS QUALITY



Description	Model No.	Order No.	Regular Price	SALE
X-Axis	AL500SX	JD30AL500SX	569.00	440.00
Y-Axis	AL500SY	JD30AL500SY	569.00	482.50
Z-Axis	AL500SZ	JD30AL500SZ	569.00	482.50

F.O.B. Warren, MI

M176

ACU-RITE® VUE DRO Packages

MADE IN THE USA

Features:

- 2-Axis digital display console
- Full bolt hole patterns
- Centerline calculation
- Preset and zero reset capability
- Multiple display resolutions
- Absolute/incremental display
- Inch/mm conversion
- Message prompts
- Linear error compensation
- Sealed precision glass scales
- 1 Year Warranty



Machine Travels (in.)	Description	Order No.	Regular Price	SALE
8 x 18	For Table Top Type Mills	MS3121V0818	1376.00	1310.50
13 x 32	For most 9 x 42 Mills	MS3121V1332U	1486.00	1415.25
13 x 32	For Bridgeport 9 x 42 Machine	MS3121V1332B	1531.00	1458.10
13 x 35	For Bridgeport 9 x 48 Machine	MS3121V1335B	1531.00	1458.10
13 x 36	For most 9 x 48 Mills	MS3121V1336U	1531.00	1458.10
16 x 36	For most 10 x 51 Mills	MS3121V1636U	1531.00	1458.10

F.O.B. Jamestown, NY • Additional Shipping Charges May Apply

M965

Maxi Torque-Rite Power Drawbar

- Fits Bridgeport and all similar milling machines
- Installs in just minutes on most machines with R-8, taper spindle
- Changes a tool in seconds
- Can deliver 40 to 50 foot/lbs. of torque, not 15 to 25 like the competition
- Will virtually eliminate tool slippage in collets on heavy cuts
- 1 Year Warranty
- Kit Includes: air filter, regulator & lubricator, drawbar, extra long air hoses, and all mounting hardware

MADE IN THE USA



Model No.	Use With	Order No.	Regular Price	SALE
TR100SP	Step-Pulley Mills	HT82TR100SP	620.00	560.00
TR100	Bridgeport Variable Speed Mills (R8)	HT82TR100	575.00	519.50
TR100DB105	PRM Model (R8) Spindle Mill	HT82TR100DB105	575.00	519.50
TR100DB164	For Jet Model JTM4VS and Clausing Atlas 2VS08, 3VS08 Machines (R8)	HT82TR100DB164	575.00	519.50
TR100DB273	All 3V Style Acer Mills	HT82TR100DB273	575.00	519.50
TR100DB285	For Acer Manual Machines CAT 40 Spindle	HT82TR100DB285	575.00	519.50
TR100DB286	For Kent Models KTM3VKF & KTM4VKF Machines (R8)	HT82TR100DB286	575.00	519.50
TR100DB289	For Kent Model KTM5VKF Machines (NMTB 40)	HT82TR100DB289	575.00	519.50
TR100DB325	For Jet Model JTM1050 Machines (R8)	HT82TR100DB325	575.00	519.50
TR100DB343	For Summit VS350 (R8) Machines	HT82TR100DB343	575.00	519.50

M986

Powermate 15 Gallon Vertical Single Stage Air Compressor

★★NEW★★

Features:

- 200 Max PSI for longer air tool run times and increased project efficiency
- Long life oil free pump
- 7" wheels for shop/job site portability

Model Specifications:

- Dimensions: 17.91 x 18.5 x 38.19"
- Tank Size: 15 Gallon ASME
- Maximum Pressure: 200 PSI
- CFM @ 40 PSI: 5.0
- CFM @ 90 PSI: 4.0
- Voltage: 120 Volt
- Running HP: 1.5
- Certifications: UL, Other
- Weight: 99 lbs
- Warranty: 2 Year Limited



Order No.	Regular Price	SALE
PT60PLD1581519	318.70	286.75

F.O.B. Springfield, MN • Ships By Truck

M1491

Powermate 30 Gallon Vertical Single Stage Air Compressor

★★NEW★★

Features:

- Heavy duty induction motor
- Portable tank equipped with pneumatic tires
- Dual voltage motor is wired for standard 120 volt outlet
- Fully assembled and equipped with quick-set regulator, tank and tool pressure gauges, quick connect air outlet and on/off switch

Model Specifications:

- Dimensions: 25 x 24.5 x 50"
- Tank Size: 30 Gallon ASME
- Maximum Press: 155 PSI
- CFM @ 40 PSI: 6.2
- CFM @ 90 PSI: 5.3
- Voltage: 120 Volt
- Running HP: 1.6
- Certification: UL & CSA
- Weight 154 lbs
- Warranty: 2 Year Limited



Order No.	Regular Price	SALE
PT60PLA1683066	624.00	541.20

F.O.B. Springfield, MN • Ships By Truck

M1492

KÄRCHER G 2700 Gas Pressure Washer

Features:

- PSI: 2700
- GPM 2.3
- Motor: Kärcher (KPS)
- 196 CC
- Carb Compliant: CARB/EPA III
- Pump: Axial
- Pump Head: Aluminum
- Engine/Pump Configuration: Vertical
- Water Inlet Pump Material: Brass Garden Hose
- Color Frame/Housing: Titanium Powder Coat
- Tires: 8" Pneumatic w/Metal Wheels

Standard Accessories:

- M22 Threaded Accessories
- 25 ft High Pressure Hose
- Quick Connect Nozzles (0, 15, 25, 40, Soap)
- Detergent Siphon Tube
- Folding Frame
- Hose & Trigger Gun Holder with Integrated Spray Nozzle Holder

★★NEW★★



Order No.	Regular Price	SALE
PW1211072660	300.00	277.95

F.O.B. Factory • UPS Dimensional Charge May Apply

M1534

KÄRCHER K2 CHK Electric Pressure Washer

Features:

- PSI 1600
- GPM: 1.25
- Motor: Universal
- Pump Head: N-Cor
- Engine/Pump Configuration: Vertical
- Water Inlet & Outlet: N-Cor Quick Connect
- Wheel Size: 4.8"
- 2 Year Limited Warranty

Standard Accessories:

- Trigger Gun
- 20 ft High Pressure Hose
- Vario Power Spray Wand (VPS)
- Dirtblaster® Spray Wand
- Telescoping Handle
- Detergent Siphon
- 35' Power Cord
- Brush, Foam Nozzle, Deck/Driveway Cleaner, Detergent included

★★NEW★★



Order No.	Regular Price	SALE
PW1016023170	165.00	152.85

F.O.B. Factory • UPS Dimensional Charge May Apply

M1537

KÄRCHER K3 & K3 Follow Me Pressure Washers

Features:

- PSI: 1800
- GPM: 1.3 K3 Follow Me, 1.5 K3
- Motor: Universal
- Pump Head: N-Cor
- Engine/Pump Configuration: Horizontal K3 Follow Me, Vertical K3
- Water Inlet & Outlet: N-Cor Quick Connect
- Wheel Size: 3.5" front, 5.5" rear K3 Follow Me, 7.7" K3
- 2 Year Limited Warranty

Standard Accessories:

- Trigger Gun
- 15 ft K3 Follow Me, 25 ft K3 High Pressure Hose
- Vario Power Spray Wand (VPS)
- Dirtblaster® Spray Wand
- Cable hook trigger gun holder
- Detergent Tank
- 35' Power cord

★★NEW★★



16027060



14080500

Model No.	Order No.	Regular Price	SALE
K3	PW1016027060	200.00	185.30
K3 FOLLOW	PW1014080500	200.00	185.30

F.O.B. Factory • UPS Dimensional Charge May Apply

M1538

PRM^{PRO} Mechanic's Roller Seat with Drawer

- Hard-wearing steel frame
- Comfortable foam-cushioned seat holds up to 300 lbs
- Seat sits 14" off the ground
- Handy sliding drawer (ball-bearing slide)
- 2-1/2" roll smoothly swivel casters
- Sturdy high-impact pan keeps tools and parts close at hand
- Limited lifetime warranty against manufacturer defects

★★NEW★★



Order No.	Regular Price	SALE
RZ455000	36.00	21.60

MH477



#2410-22 - 12V Lithium Ion - 3/8" Chuck - Cordless Drill Driver

- 0-1500/ 0 - 400 RPM
- 2-Speed All Metal Gear Box
- Delivers Up to 25% More Torque
- 3/8" Single Sleeve ratcheting metal chuck
- Lightweight and Compact 2.5lbs
- Integrated LED and Fuel Gauge



★★NEW★★

Order No.	Regular Price	SALE
PD50241022	250.00	222.70

PT874



Coolant Saver & Oil Saver

- Reduce Coolant Costs
- Eliminate labor costs due to manual coolant removal from chip bins
- No chance of contamination of coolant in chip bins
- Overall reduced manufacturing costs

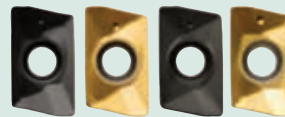
★★NEW★★



Collection Flow Rate	Collection Tube Length	Mounting Height	Operating Pressure	Suction Capacity	Order No.	Regular Price	SALE
Approx. 1 Litre/min.	30'	Max. 3 Meters	1 to 45 bar	-0.5 to -0.8 Bar	NY601000	499.00	424.15
Approx. 1 Litre/min.	30'	Max. 3 Meters	1 to 45 bar	-0.5 to -0.8 Bar	NY602000	555.00	471.75

FL409

TURBO 10 PRODUCTIVITY KITS



SAVE UP TO \$285



LIGHT DUTY,
HIGH PRECISION
APPLICATIONS!

SQUARE SHOULDER MILLING

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SECO

PRICES EFFECTIVE JANUARY 1, 2017 THRU MARCH 31, 2017

NOT ALL ITEMS EXACTLY AS PICTURED. NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS. WE RESERVE THE RIGHT TO LIMIT QUANTITIES. ITEMS AVAILABLE WHILE SUPPLIES LAST.