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Winter Quarterly 2020

www.westtool.com



Lufkin

Shockforce Tapes

NEW

**STARTING AT
\$23⁸²**

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32 & 33

FEATURING

DEWALT

PROTO

STANLEY



NEW

SHOWA

Gloves



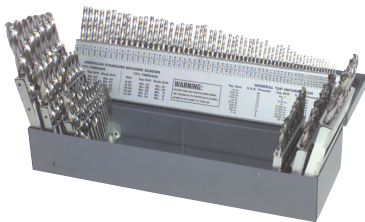
**STARTING AT
\$2¹⁵**

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Prices Effective January 1, 2020 Thru March 31, 2020

RAPIDKUT 3-In-1 Jobber Drill Sets

- 115 Pc. sets with folding index
- 1/16" - 1/2" by 64th, 1-60, A-Z
- **High speed steel** for production drilling in a broad range of materials
- **Cobalt heavy duty** for drilling in tough, high tensile strength materials and longer tool life



Set Material	Set Coating	Set Angle	Order No.	Regular Price	SALE
High Speed Steel	Bright Finish	118° Standard Point	AP50C123H	285.60	217.60
Cobalt	Bronze Oxide	135° Split Point	AP50CO123H	652.61	497.22

CT019

PRO CUT 20 Pc. TiN Coated End Mill Set High Speed Steel

- Set consists of one each: 2 flute & 4 flute single end - 3/16, 1/4, 1/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 & 3/4"
- TiN coating is ideal for abrasive and difficult to machine materials



SAVE 30%

Order No.	Regular Price	SALE
DB50TC20E	128.95	90.27

CT007

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-8 Torx key		
• (1) Storage case		



Order No.	Regular Price	SALE
FL4585064	304.15	243.32

C372

KED 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	7.79	7.01
1	1/8	1-1/4	AV4110100	5.43	4.62
2	3/16	1-7/8	AV4110200	5.67	4.82
3	1/4	2	AV4110300	5.91	5.02
4	5/16	2-1/8	AV4110400	6.09	5.18
4-1/2	3/8	2-1/2	AV4114500	8.40	7.14
5	7/16	2-3/4	AV4110500	9.67	8.22
6	1/2	3	AV4110600	14.54	12.36
7	5/8	3-1/4	AV4110700	22.05	18.74
8	3/4	3-1/2	AV4110800	30.29	25.75
9	7/8	3-5/8	AV4110900	54.96	46.72
10	1	3-3/4	AV4111000	72.14	61.32

†Aircraft Series

CT328

PRECISION 118° Standard Point Jobber Drill Sets High Speed Steel

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

SAVE 55%



CT878

Finish	Order No.	Regular Price	SALE
Bright Finish	PT2790162	276.00	124.20
Surface Treated	PT2799977	276.00	124.20

PRO-CHECK 36 Pc. Millionths Space Block Set

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

Consists of the following sizes:

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



Order No.	Regular Price	SALE
NF80PR1	58.65	46.92

MT020

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	70.80

MT086

Prices Effective January 1, 2020 Thru March 31, 2020

HexArmor

Rig Lizard® Thin Lizzie™ 2090X

NEW

- Knit: 13-gauge HPPE and glass blend shell provides 360° of ANSI/ISEA cut level A4 protection
- Coating: Flexible sandy nitrile palm coating provides superior grip and abrasion resistance
- Back-of-hand IR-X® Impact Exoskeleton™ with high-flex design keeps hands safe from smash and impact hazards; providing workers with ANSI/ISEA 138 Level 1 impact protection
- Launderable



ANSI 4

Size	Order No.	Regular Price	SALE
S	HX0110710	22.86	17.15
M	HX0110705	22.86	17.15
L	HX0110700	22.86	17.15
XL	HX0110715	22.86	17.15
2-XL	HX0110725	22.86	17.15

HexArmor

Helix® Cold Weather 2073

NEW

- Knit: 13-gauge acrylic and fiberglass blend shell with cut resistant fabric liner offering 360° degree cut protection
- Coating: Flexible sandy nitrile full double-dipped palm coating provides liquid resistance and superior grip and abrasion resistance
- Knit wrist helps prevent dirt and debris from entering the glove
- Fleece lining for warmth and insulation



ANSI 6

Size	Order No.	Regular Price	SALE
S	HX0110610	15.14	11.35
M	HX0110605	15.14	11.35
L	HX0110600	15.14	11.35
XL	HX0110615	15.14	11.35
2-XL	HX0110625	15.14	11.35

HexArmor Hex1® 2131 Impact Resistance Glove

NEW

- Full back-of-hand impact protection against bumps and tool slips
- Reinforced index finger and thumb saddle
- Durable TP-X® palm with reinforced stitching
- Neoprene cuff with Velcro® closure
- Nametag on palm side of cuff for easy differentiation and identification
- Hi-vis color scheme for visual awareness & launderable



SAVE 25%

ANSI 6

Size	Order No.	Regular Price	SALE
S	HX0110790	19.34	14.50
M	HX0110785	19.34	14.50
L	HX0110780	19.34	14.50
XL	HX0110795	19.34	14.50
2-XL	HX0110805	19.34	14.50

HexArmor PentaArmor® 1010

Protective Arm Sleeve

NEW

- SuperFabric® brand material offers ANSI/ISEA cut level A7 resistance for some of the highest cut protection available in the industry (up to 8x the cut resistance of Kevlar® sleeves)
- Thumb loop and sleeve clip keeps industrial sleeves in place
- Cost effective solution (save up to 50% on your annual protective sleeve costs while increasing your protection)
- Launderable



ANSI 7

Size	Order No.	Regular Price	SALE
S	HX0110010	40.80	30.60
M	HX0110005	40.80	30.60
L	HX0110000	40.80	30.60
XL	HX0110015	50.90	38.15
2-XL	HX0110020	56.94	42.70

HexArmor

Mechanic's+ 4019

NEW

- SuperFabric® brand material palm provides ANSI/ISEA level A6 cut resistance
- Printed PVC synthetic leather palm provides reliable grip in dry or light oil situations
- Conductive filaments in thumb and index fingertip allow for the use of touchscreen systems
- Back-of-thumb serves as a convenient brow cloth
- Cut and abrasion-resistant knuckle patch
- Machine washable



ANSI 6

Size	Order No.	Regular Price	SALE
S	HX0110860	55.98	42.00
M	HX0110855	55.98	42.00
L	HX0110850	55.98	42.00
XL	HX0110865	55.98	42.00
2-XL	HX0110875	60.24	45.20

HexArmor

Helix® 1073

NEW

SAVE 25%

- Knit: 15-gauge HPPE and fiberglass blend shell offering 360° degree cut protection
- Coating: Micro foam nitrile palm coating provides superior grip and abrasion resistance
- Reinforced thumb crotch area for increased durability
- Seamless construction for enhanced comfort and breathability
- Silicone-free

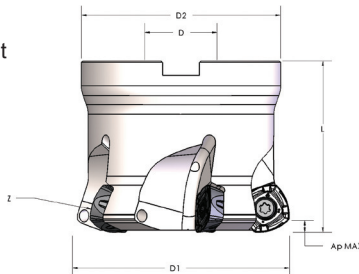


ANSI 3

Size	Order No.	Regular Price	SALE
S	HX0110080	14.14	10.60
M	HX0110075	14.14	10.60
L	HX0110070	14.14	10.60
XL	HX0110085	14.14	10.60
2-XL	HX0110095	14.14	10.60

RAPIDKUT® High Feed Milling Cutters

- Designed for high feed roughing in a variety of materials with depths of cut up to .150"
- Economical but robust insert with 4 cutting edges achieves excellent tool life at aggressive feed rates
- Positive geometry insert placement enables smooth chip evacuation and low cutting forces
- Electroless nickel plated finish gives a smooth hard surface that enhances chip flow and increases durability
- Uses MEHF style high feed milling inserts
- Theoretical radius: 12mm insert = .130"; 15mm insert = .197"



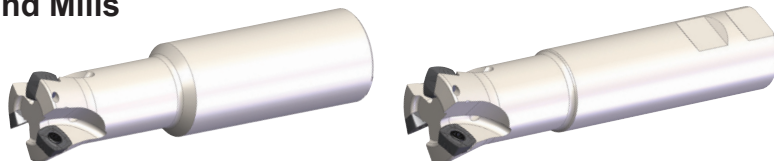
D1 Cutting Dia.	D2	D Bore Dia.	L Height	Ap MAX	Number of Inserts	Insert IC	Screw	Order No.	Regular Price	SALE
1-1/2	1.13	16mm	1.88	.095	3	12mm	HFMS12	ME2540100	167.95	134.36
2	1.75	3/4	1.70	.095	4	12mm	HFMS12	ME2540140	199.95	159.96
2	1.75	3/4	1.70	.095	5	12mm	HFMS12	ME2540180	225.50	180.40
2-1/2	2.20	1	2.00	.150	4	15mm	HFMS15	ME2540220	229.95	183.96
2-1/2	2.20	1	2.00	.150	5	15mm	HFMS15	ME2540260	249.50	199.60
3	2.75	1	2.30	.150	5	15mm	HFMS15	ME2540300	289.95	231.96
3	2.75	1	2.30	.095	7	12mm	HFMS12	ME2540340	323.20	258.56
4	3.80	1-1/2	2.30	.095	6	15mm	HFMS15	ME2540400	346.25	277.00
4	3.80	1-1/2	2.30	.095	9	12mm	HFMS12	ME2540380	383.70	306.96

† 1.50" Dia. milling cutter has M16 ISO milling connection

C381

RAPIDKUT® High Feed Indexable End Mills

- Designed for high feed roughing in a variety of materials with depths of cut up to .150"
- Economical but robust insert with 4 cutting edges achieves excellent tool life at aggressive feed rates
- Uses MEHF style high feed milling inserts
- Theoretical radius for 12mm inserts = .130"

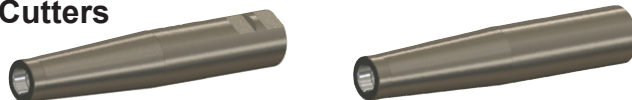


- Cylindrical Shank					
Cutting Diameter	Insert IC	Shank Dia./Style	Order No.	Regular Price	SALE
1-1/2	12mm	1-1/2 Cylindrical	ME2540120	190.00	142.50
1-1/2	12mm	1-1/4 Cylindrical	ME2540110	190.00	142.50

- Weldon Shank					
Cutting Diameter	Insert IC	Shank Dia./Style	Order No.	Regular Price	SALE
1-1/2	12mm	1-1/2 Weldon	ME2540125	199.80	149.85
1-1/2	12mm	1-1/4 Weldon	ME2540115	199.80	149.85

C439

RAPIDKUT® Shanks for High Feed Milling Cutters



Shank	Projection (in.)	Order No.	Regular Price	SALE
Cat40	5	ME2540130	511.00	383.25
Cat50	6	ME2540135	645.00	483.75
1-1/4 Cylindrical	8	ME2540145	167.00	125.25

Shank	Projection (in.)	Order No.	Regular Price	SALE
1-1/4 Weldon	8	ME2540150	177.80	133.35
1-1/2 Cylindrical	8	ME2540155	177.80	133.35
1-1/2 Weldon	8	ME2540160	188.90	141.68

C438

RAPIDKUT® High Feed Milling Inserts

- Grade ME8425 is a new AlCrN PVD coating on top of a submicron substrate which allows for a broad application range of materials
- Grade ME8430 is used in a wide variety of applications on steel, stainless steel, cast iron and heat resistant super alloys
- HM = heavy roughing
- MM = medium roughing



Grade - ME8425					
ISO Number	IC	Thick-ness	Order No.	Regular Price	SALE
MEHF 120512-HM	12mm	5mm	ME1020562	10.19	8.15
MEHF 120512-MM	12mm	5mm	ME1020552	10.19	8.15
MEHF 150512-HM	15mm	5mm	ME1020582	11.76	9.41
MEHF 150512-MM	15mm	5mm	ME1020572	11.76	9.41

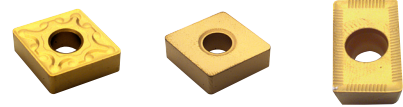
Grade - ME8430					
ISO Number	IC	Thick-ness	Order No.	Regular Price	SALE
MEHF 120512-HM	12mm	5mm	ME1020522	10.19	8.15
MEHF 120512-MM	12mm	5mm	ME1020512	10.19	8.15
MEHF 150512-HM	15mm	5mm	ME1020542	11.76	9.41
MEHF 150512-MM	15mm	5mm	ME1020532	11.76	9.41

C382

PRO CUT Popular Milling Inserts

- PC2 / PC2M - For non-ferrous materials
- PC5 / PC5M - For steel cutting
- PC3 / PC300M - TiN-TiC-TiN coated for steel cutting at higher speeds with greater lubricity

Insert Style	Grade	Order No.	Regular Price	SALE
APKT 10035PDSR	PC5	FF5010035	8.45	5.49
APKT 10035PDSR	PC300	FF5010036	9.70	6.31
APKT 1604PDR	PC2	FF5016042	11.10	7.22
APKT 1604PDR	PC5	FF5016045	11.10	7.22
APKT 1604PDR	PC300	FF5016043	12.25	7.96
ADKT 1505PDSR	PC5	FF5010037	9.60	6.24
ADKT 1505PDSR	PC300	FF5010038	10.95	7.12
SEAN 42AFTN	PC2M	FF7010120	10.23	6.65
SEAN 42AFTN	PC300M	FF7030120	12.05	7.83
SEAN 42AFTN	PC5M	FF7050120	10.23	6.65



Insert Style	Grade	Order No.	Regular Price	SALE
SEC 422	PC300M	FF7030150	9.05	5.88
SEC 422	PC5M	FF7050150	8.68	5.64
SEC 432	PC300M	FF7030170	10.88	7.07
SEC 532	PC300M	FF7030175	13.77	8.95
SEC 532	PC5M	FF7050175	13.23	8.60
SEC 634	PC5M	FF7050180	13.77	8.95

C240

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	6.86	4.46
CNMG 432	PC300	FF5030160	6.93	4.50
CNMG 431	PC300	FF5030420	11.57	7.52
DNMG 432	PC300	FF5030430	11.57	7.52
RNG 32	PC2	FF5010530	4.82	3.13
RNMA 43	PC2	FF5010580	5.30	3.45
RPG 42	PC300	FF5033510	10.66	6.93
RPG 42	PC5	FF5053510	9.22	5.99
SPU 422	PC300	FF5031750	7.13	4.63
TNMA 438	PC5	FF5052250	6.27	4.08
TNMG 321	PC300	FF5032320	4.34	2.82
TNMG 322	PC300	FF5032330	4.61	3.00
TNMG 322	PC5	FF5052330	3.70	2.41
TNMG 431	PC300	FF5032390	7.55	4.91
TNMG 432	PC300	FF5032400	7.44	4.84
TPU 321	PC300	FF5033310	4.87	3.17
TPU 322	PC300	FF5033320	5.20	3.38
TPU 322	PC5	FF5053320	4.39	2.85



Insert Style	Grade	Order No.	Regular Price	SALE
TPU 432	PC300	FF5033360	8.41	5.47
TPU 432	PC5	FF5053360	6.75	4.39
SPG 422	PC300	FF5031510	8.03	5.22
SPG 422	PC5	FF5051510	6.65	4.32
TPG 321	PC300	FF5032850	7.13	4.63
TPG 321	PC5	FF5052850	6.00	3.90
TPG 322	PC2	FF5012860	6.00	3.90
TPG 322	PC300	FF5032860	7.13	4.63
TPG 322	PC5	FF5052860	6.00	3.90
TPG 323	PC300	FF5032870	7.13	4.63
TPG 323	PC5	FF5052870	6.00	3.90
TPG 324	PC300	FF5032880	7.13	4.63
TPG 324	PC5	FF5052880	6.00	3.90
TPG 431	PC300	FF5032930	10.77	7.00
TPG 432	PC300	FF5032940	10.66	6.93
TPG 432	PC5	FF5052940	8.15	5.30
TPG 434	PC300	FF5032960	10.77	7.00
SPG 634	PC2	FF5011640	12.16	7.90

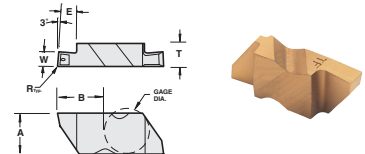
C241

TOOL FLO Flo-Lock Grooving Inserts

FLG

Carbide Grades

- AC3 - PVD TiAlN for 300 series stainless steel and other high temp alloy steel in premium conditions
- AC50 - PVD TiAlN for standard steels and 400 series stainless steel
- GP50 - PVD TiN general purpose for standard steel



Tool-Flo	Width (in.)	Raiuds R (in.)	E (in.)	T (in.)	AC3				AC50			
					Grade w/Hone	Order No.	Regular Price	SALE	Grade w/Hone	Order No.	Regular Price	SALE
FLG-2031R	.031	.002/.005	.050	.150	AC3R	FG31562631RAC3R	20.51	17.43	AC50C	FG31026170	20.51	17.43
FLG-3031R	.031	.002/.005	.050	.195	AC3R	FG3114080	20.51	17.43	AC50C	FG31563631RAC50	20.51	17.43
FLG-3047R	.047	.005/.010	.075	.195	AC3R	FG31FLG3047RA	20.51	17.43	AC50C	FG31027830	20.51	17.43
FLG-3062R	.062	.005/.010	.120	.195	AC3R	FG31FLG3062RA	20.51	17.43	AC50C	FG31563662RAC50	20.51	17.43
FLG-3062L	.062	.005/.010	.120	.195	AC3R	FG31FLG3062LA	20.51	17.43	AC50C	FG31563662LAC50	20.51	17.43
FLG-3072R	.072	.005/.010	.120	.195	AC3R	FG31028000	20.51	17.43	AC50C	FG31028010	20.51	17.43
FLG-3072L	.072	.005/.010	.120	.195	AC3R	FG31027910	20.51	17.43	AC50C	FG31027920	20.51	17.43
FLG-3094R	.094	.005/.010	.195	.195	AC3R	FG31FLG3094RA	20.51	17.43	AC50C	FG31563694RAC50	20.51	17.43
FLG-3094L	.094	.005/.010	.180	.195	AC3R	FG31FLG3094LA	20.51	17.43	AC50C	FG31563694LAC50	20.51	17.43
FLG-3125R	.125	.005/.010	.195	.195	AC3R	FG31FLG3125RA	20.51	17.43	AC50C	FG31028920	20.51	17.43
FLG-3125L	.125	.005/.010	.180	.195	AC3R	FG31FLG3125LA	20.51	17.43	AC50C	FG31563825LAC50	20.51	17.43
FLG-3156R	.156	.005/.010	.180	.195	AC3R	FG31563856RAC3R	20.51	17.43	AC50C	FG31029060	20.51	17.43
FLG-3156L	.156	.005/.010	.180	.195	-	-	-	-	AC50C	FG31029030	20.51	17.43
FLG-4125R	.125	.005/.010	.250	.255	-	-	-	-	AC50C	FG31030540	29.53	25.10
FLG-4125L	.125	.005/.010	.250	.255	-	-	-	-	AC50C	FG31564825LAC50	29.53	25.10
FLG-4189R	.189	.020/.025	.250	.255	AC3R	FG31564889RAC3R	29.53	25.10	AC50C	FG31030660	29.53	25.10
FLG-4189L	.189	.020/.025	.250	.255	AC3R	FG31564889LAC3R	29.53	25.10	AC50C	FG31564889LAC50	29.53	25.10
FLG-4250R	.250	.020/.025	.250	.255	AC3A	FG31030850	29.53	25.10	AC50E	FG31030860	29.53	25.10
FLG-4250L	.250	.020/.025	.550	.255	AC3A	FG31030780	29.53	25.10	AC50E	FG31030790	29.53	25.10

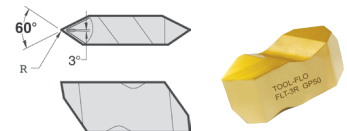
C419

TOOL FLO Flo-Lock/Chip-Flo Threading Inserts

FLT

Carbide Grades:

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



Tool-Flo	TPI External / Internal	Radius R	T (in.)	E (in.)	AC3				GP50			
					Grade w/Hone	Order No.	Regular Price	SALE	Grade w/Hone	Order No.	Regular Price	SALE
FLT-2L	7-20 / 8-36	.003 / .005	.150	.075	AC3R	FG31FLT2LA	17.21	14.63	GP50	FG315041	15.93	13.54
FLT-2R	7-20 / 8-36	.003 / .005	.150	.075	AC3R	FG31FLT2RA	17.21	14.63	GP50	FG315040	15.93	13.54
FLT-3R	5-12 / 6-20	.005 / .008	.195	.098	AC3R	FG31FLT3RA	17.87	15.19	GP50	FG315042	16.58	14.09
FLT-3L	5-12 / 6-20	.005 / .008	.195	.098	AC3R	FG31FLT3LA	17.87	15.19	GP50	FG315043	16.58	14.09
FLT-3010R	5-12 / 6-18	.009 / .011	.195	.098	AC3R	FG31038250	19.53	16.60	GP50C	FG31038280	18.26	15.52
FLT-3010L	5-12 / 6-18	.009 / .011	.195	.098	-	-	-	-	GP50C	FG31038240	18.26	15.52
FLT-4L	4-12 / 4-20	.005 / .008	.255	.128	AC3A	FG31038600	22.35	19.00	GP50E	FG315046	20.60	17.51
FLT-4R	4-12 / 4-20	.005 / .008	.255	.128	AC3A	FG31038620	22.35	19.00	GP50E	FG315047	20.60	17.51

C417

RAPIDKUT® Steel Boring Bars

SCLC Style

- Positive 80°
- Uses CCMT style inserts

SDUC Style

- Positive 55°
- Uses DCMT style inserts

STFC Style

- Positive 60°
- Uses TCMT style inserts

Right hand shown



Type - SCLC											
Shank Dia. (in.)	Min. Bore	OAL (in.)	Use Insert	Left				Right			
				Model No.	Order No.	Regular Price	SALE	Model No.	Order No.	Regular Price	SALE
5/16	.3350	4.000	CCMT 21.5	S05HSCCL2	ME1210125	45.05	33.79	S05HSCCLR2	ME1210100	45.05	33.79
3/8	.4130	4.500	CCMT 21.5	S06JSCLCL2	ME1210130	47.70	35.78	S06JSCLCR2	ME1210105	47.70	35.78
1/2	.5400	5.000	CCMT 21.5	S08KSCCL2	ME1210135	51.94	38.96	S08KSCCLR2	ME1210110	51.94	38.96
5/8	.6650	6.000	CCMT 21.5	S10MSCCL2	ME1210140	65.72	49.29	S10MSCCLR2	ME1210115	65.72	49.29
5/8	.7500	8.000	CCMT 32.5	S10RSCCL3	ME1220009	68.89	51.67	S10RSCCLR3	ME1220007	68.89	51.67
3/4	1.0000	10.000	CCMT 32.5	S12SSCLCL3	ME1210145	76.32	57.24	S12SSCLR3	ME1210120	76.32	57.24
1	1.2500	12.000	CCMT 32.5	S16TSCCL3	ME1210146	91.11	68.33	S16TSCCLR3	ME1210122	91.11	68.33

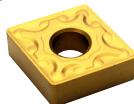
Type - SDUC											
Shank Dia. (in.)	Min. Bore	OAL (in.)	Use Insert	Left				Right			
				Model No.	Order No.	Regular Price	SALE	Model No.	Order No.	Regular Price	SALE
3/8	.4130	4.500	DCMT 21.5	S06JSDUCL2	ME1210165	57.24	42.93	S06JSDUCR2	ME1210150	57.24	42.93
1/2	.5400	5.000	DCMT 21.5	S08KSDUCL2	ME1210170	65.72	49.29	S08KSDUCR2	ME1210151	65.72	49.29
5/8	.6650	6.000	DCMT 21.5	S10MSDUCL2	ME1210175	81.62	61.22	S10MSDUCR2	ME1210155	81.62	61.22
5/8	.7500	8.000	DCMT 21.5	S10RSDUCL2	ME1210136	66.67	50.00	S10RSDUCR2	ME1210156	66.67	50.00
3/4	1.0000	10.000	DCMT 32.5	S12SSDUCL3	ME1210180	92.22	69.17	S12SSDUCR3	ME1210160	92.22	69.17
1	1.2500	12.000	DCMT 32.5	S16TSDUCL3	ME1210162	102.22	76.67	S16TSDUCR3	ME1210182	102.22	76.67

Type - STFC											
Shank Dia. (in.)	Min. Bore	OAL (in.)	Use Insert	Left				Right			
				Model No.	Order No.	Regular Price	SALE	Model No.	Order No.	Regular Price	SALE
3/8	.4130	4.500	TCMT 21.5	S06JSTFCL2	ME1210185	46.67	35.00	S06JSTFCR2	ME1210190	46.67	35.00
1/2	.5400	5.000	TCMT 21.5	S08KSTFCL2	ME1210195	48.89	36.67	S08KSTFCR2	ME1210200	48.89	36.67
5/8	.6650	6.000	TCMT 21.5	S10MSTFCL2	ME1210205	53.33	40.00	S10MSTFCR2	ME1210210	53.33	40.00
5/8	.7500	8.000	TCMT 32.5	S10RSTFCL3	ME1210215	66.67	50.00	S10RSTFCR3	ME1210220	66.67	50.00
3/4	1.0000	10.000	TCMT 32.5	S12SSTFCL3	ME1210225	73.33	55.00	S12SSTFCR3	ME1210230	73.33	55.00
1	1.2500	12.000	TCMT 32.5	S16TSTFCL3	ME1210235	102.22	76.67	S16TSTFCR3	ME1210240	102.22	76.67

C445

RAPIDKUT® Turning Inserts for Stainless Steel

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



Style	IC	Thick-ness	Radius	Order No.	Regular Price	SALE
CNMG 431-M42	1/2	.187	.016	RE1010250	8.58	5.15
CNMG 432-M42	1/2	.187	.031	RE1010400	8.58	5.15
CNMG 433-M42	1/2	.187	.047	RE1010570	8.58	5.15
DNMG 441-M42	1/2	.250	.016	RE1011050	12.03	7.22
DNMG 442-M42	1/2	.250	.031	RE1011060	12.03	7.22
DNMG 443-M42	1/2	.250	.047	RE1011070	12.03	7.22
SNMG 431-M42	1/2	.187	.016	RE1011200	9.06	5.44
SNMG 432-M42	1/2	.187	.031	RE1011310	9.06	5.44
SNMG 433-M42	1/2	.187	.047	RE1011420	9.06	5.44
TNMG 331-M42	3/8	.187	.016	RE1011730	10.32	6.19
TNMG 332-M42	3/8	.187	.031	RE1011870	10.32	6.19
TNMG 333-M42	3/8	.187	.047	RE1012020	10.32	6.19
WNMG 431-M42	1/2	.187	.016	RE1012740	9.47	5.68
WNMG 432-M42	1/2	.187	.031	RE1012870	9.47	5.68
WNMG 433-M42	1/2	.187	.047	RE1013020	9.47	5.68

C441

RAPIDKUT® Solid & Coolant Thru Boring Bar Kits

- Uses CCMT, DCMT or TCMT 21.5_ inserts
- Inserts sold separately
- Coolant-thru and non coolant-thru available



Description	Set Includes	Uses Insert Style	Order No.	Regular Price	SALE
Kit of 4 SCLCR Steel Boring Bars	S05HSCCLR2, S06JSCLCR2, S08KSCCLR2, S10MSCCLR2	CCMT	ME1220005	174.47	139.58
Kit of 3 SDUCR Steel Boring Bars	S06JSDUCR2, S08KSDUCR2, S10MSDUCR2	DCMT	ME1220000	134.04	107.23
Kit of 3 STFCR Steel Boring Bars	S06JSTFCR2, S08KSTFCR2, S10MSTFCR2	TCMT	ME1220020	140.00	112.00
Kit of 4 SCLCR Coolant Thru Steel Boring Bars	A05HSCCLR2, A06JSCLCR2, A08KSCCLR2, A10MSCCLR2	CCMT	ME1220015	278.72	222.98
Kit of 3 SDUCR Coolant Thru Steel Boring Bars	A06JSDUCR2, A08KSDUCR2, A10MSDUCR2	DCMT	ME1220010	208.51	166.81
Kit of 3 STFCR Coolant Thru Steel Boring Bars	A06JSTFCR2, A08KSTFCR2, A10MSTFCR2	TCMT	ME1220030	217.78	174.22

C385

RAPIDKUT® Popular Boring Bar Inserts

- Grade PT1225 us used for general machining in steel. It has a wide application range due to good wear resistance and toughness.
- F41 chipbreaker for finishing in boring applications. Good chip evacuation in low feed and depth of cut.



Style	IC	Thick-ness	Radius	Order No.	Regular Price	SALE
CCMT 21.51-F41	1/4	.094	.016	RE1010020	7.25	4.35
CCMT 32.51-F41	3/8	.156	.016	RE1010060	10.74	6.44
CCMT 32.52-F41	3/8	.156	.031	RE1010130	10.74	6.44
DCMT 32.51-F41	3/8	.156	.016	RE1010750	9.82	5.89
DCMT 32.52-F41	3/8	.156	.031	RE1010830	9.82	5.89

Style	IC	Thick-ness	Radius	Order No.	Regular Price	SALE
SCMT 32.51-F41	3/8	.156	.016	RE1011090	7.60	4.56
SCMT 32.51-M51	3/8	.156	.016	RE1011120	7.60	4.56
TCMT 32.51-F41	3/8	.156	.016	RE1011560	9.47	5.68
TCMT 32.52-F41	3/8	.156	.031	RE1011610	9.47	5.68

C442



Solid Carbide 4 Flute Corner Radius

End Mills

POW•R•FEED Series M924 End Mills

IMCO's M924 is the second generation of the POW•R•FEED M9 series, designed for production environments.

Reinforced cutting edges give you even longer tool life in more demanding applications.

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

SAVE
25%



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	28.83	21.62	-	-	-	-	-	-
3/16	3/16	9/16	2	DD4167511	38.71	29.03	DD4167512	38.71	29.03	-	-	-
1/4	1/4	3/4	2-1/2	DD4167525	43.65	32.74	DD4167526	43.65	32.74	DD4167527	46.06	34.55
1/4	1/4	1-1/4	3	DD4167531	51.50	38.63	DD4167532	51.50	38.63	-	-	-
1/4	1/4	1-3/4	4	DD4167547	61.32	45.99	DD4167548	61.32	45.99	-	-	-
5/16	5/16	13/16	2-1/2	DD4167099	54.35	40.76	DD4167100	54.35	40.76	DD4167101	56.56	42.42
3/8	3/8	1-1/4	3	DD4167133	82.70	62.03	DD4167134	82.70	62.03	DD4167135	83.32	62.49
3/8	3/8	2	4	DD4167165	102.00	76.50	DD4167166	102.00	76.50	DD4167167	102.61	76.96
1/2	1/2	5/8	2-1/2	-	-	-	DD4167206	100.20	75.15	DD4167207	100.20	75.15
1/2	1/2	1	3	DD4167214	101.57	76.18	DD4167215	101.57	76.18	DD4167216	101.57	76.18
1/2	1/2	1-1/4	3	DD4167223	105.37	79.03	DD4167224	105.37	79.03	DD4167225	105.37	79.03
1/2	1/2	1-5/8	4	-	-	-	DD4167233	128.30	96.23	DD4167234	128.30	96.23
5/8	5/8	3/4	3	-	-	-	DD4167278	160.13	120.10	DD4167279	160.13	120.10
5/8	5/8	1-3/8	3-1/2	-	-	-	DD4167288	165.93	124.45	DD4167289	165.93	124.45
5/8	5/8	2-1/8	4	-	-	-	DD4167298	199.14	149.36	DD4167299	199.14	149.36
3/4	3/4	1-5/8	4	-	-	-	DD4167358	278.61	208.96	DD4167359	278.61	208.96
3/4	3/4	2-3/8	5	-	-	-	DD4167368	318.28	238.71	DD4167369	318.28	238.71
1	1	1-3/4	4	-	-	-	DD4167408	440.69	330.52	DD4167409	440.69	330.52

CT689



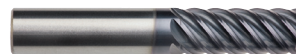
OMEGA® M725 & M726 Solid Carbide 5 & 6 Flute End Mills

For Hard Materials • Square End

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

SAVE
25%

- H** Best in Hardened Materials
M Good in Stainless Steels
P Good in Carbon and Tool Steels
K Good in Cast Iron



Great for HSM

MADE IN THE USA

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Regular Price	SALE
1/8	1/8	1/2	1-1/2	5	DD4069052	27.30	20.48
1/8	1/8	1/4	1-1/2	5	DD4069050	26.82	20.12
3/16	3/16	5/16	2	5	DD4069054	31.72	23.79
3/16	3/16	9/16	2	5	DD4069056	32.43	24.32
1/4	1/4	3/4	2-1/2	6	DD4069058	42.56	31.92
1/4	1/4	1-1/4	3	6	DD4069061	51.96	38.97
3/8	3/8	7/8	2-1/2	6	DD4069070	67.34	50.51
3/8	3/8	1-1/4	3	6	DD4069073	84.38	63.29
3/8	3/8	2	4	6	DD4069076	106.43	79.82
1/2	1/2	1	3	6	DD4069079	97.93	73.45
1/2	1/2	1-1/4	3	6	DD4069083	101.61	76.21
1/2	1/2	1-5/8	3-1/2	6	DD4069087	128.54	96.41
5/8	5/8	1-3/8	3-1/2	6	DD4069099	176.86	132.65
3/4	3/4	1-5/8	4	6	DD4069111	283.51	212.63
3/4	3/4	2-5/8	5	6	DD4069115	350.13	262.60

CT834



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

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

Best for HEM

- S** Best using HEM in Titanium Alloys **P** Best using HEM in Carbon and Tool Steels
M Best using HEM in Stainless Steels **K** Best using HEM in Cast Iron

SAVE
25%



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	.030			.060			.125			None		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16	3/16	3/8	2	DD4463478	47.19	24.77	-	-	-	-	-	-	DD4463476	43.53	22.86
3/16	3/16	9/16	2	DD4463481	48.54	25.49	-	-	-	-	-	-	DD4463479	44.88	23.56
3/16	3/16	3/4	2-1/2	DD4463484	61.79	32.44	-	-	-	-	-	-	DD4463482	58.13	30.52
1/4	1/4	1/2	2	DD4463487	54.64	28.69	DD4463488	58.09	30.50	-	-	-	DD4463485	50.94	26.75
1/4	1/4	3/4	2-1/2	DD4463491	58.70	30.82	DD4463492	62.14	32.63	-	-	-	DD4463489	54.99	28.87
1/4	1/4	1	3	DD4463495	73.12	38.39	DD4463496	76.57	40.20	-	-	-	DD4463493	69.42	36.45
3/8	3/8	3/4	2-1/2	DD4463499	78.44	41.18	DD4463500	81.84	42.97	-	-	-	DD4463497	74.60	39.17
3/8	3/8	15/16	2-1/2	DD4463504	79.53	41.76	DD4463505	82.97	43.56	-	-	-	DD4463502	75.69	39.74
3/8	3/8	1-1/8	3	DD4463509	88.67	46.55	DD4463510	92.12	48.36	-	-	-	DD4463507	84.84	44.54
3/8	3/8	1-1/2	3-1/2	DD4463514	111.55	58.56	DD4463515	115.00	60.38	-	-	-	DD4463512	107.72	56.55
1/2	1/2	1	3	DD4463517	117.09	61.47	DD4463518	120.53	63.28	DD4463520	127.93	67.17	DD4463516	113.12	59.39
1/2	1/2	1-1/4	3-1/4	DD4463215	129.91	68.20	DD4463216	133.53	70.11	DD4463218	141.32	74.19	DD4463214	125.73	66.01
1/2	1/2	1-1/2	3-1/2	DD4463527	131.17	68.87	DD4463528	134.60	70.67	DD4463530	142.01	74.56	DD4463526	127.20	66.78
1/2	1/2	1-3/4	4	DD4463220	146.87	77.11	-	-	-	DD4463238	157.74	82.82	DD4463219	142.74	74.94
1/2	1/2	2	4	DD4463537	153.99	80.84	DD4463538	157.44	82.66	DD4463540	164.84	86.54	DD4463536	150.02	78.76
1/2	1/2	2-1/4	4	DD4463542	169.94	89.22	DD4463543	173.39	91.03	DD4463545	180.79	94.91	DD4463541	165.93	87.12
5/8	5/8	1-1/4	3-1/2	DD4463547	217.82	114.36	DD4463548	221.75	116.42	DD4463550	230.24	120.88	DD4463546	213.21	111.94
5/8	5/8	1-9/16	4	DD4463242	239.99	125.99	DD4463244	244.00	128.10	DD4463247	252.42	132.52	DD4463240	235.36	123.56
5/8	5/8	1-7/8	4	DD4463559	243.16	127.66	DD4463560	247.03	129.69	DD4463562	255.53	134.16	DD4463558	238.44	125.18
5/8	5/8	2-3/16	4-1/2	DD4463258	279.38	146.68	DD4463262	283.13	148.65	DD4463264	291.74	153.17	DD4463253	274.61	144.17
5/8	5/8	2-1/2	5	DD4463569	316.16	165.98	DD4463570	319.87	167.93	DD4463571	327.93	172.17	DD4463568	311.68	163.63
3/4	3/4	1-1/2	4	DD4463573	301.73	158.41	DD4463574	305.60	160.44	DD4463575	313.98	164.84	DD4463572	296.96	155.90
3/4	3/4	1-7/8	4-1/2	DD4463270	347.73	182.56	DD4463271	352.09	184.85	DD4463275	361.45	189.76	DD4463269	341.83	179.46
3/4	3/4	2-1/4	5	DD4463586	371.47	195.02	DD4463587	375.46	197.12	DD4463589	384.10	201.66	DD4463585	372.57	195.6
3/4	3/4	2-5/8	5	DD4463593	386.54	202.94	DD4463594	390.47	205.00	DD4463596	399.07	209.51	DD4463592	381.58	200.33
3/4	3/4	3	6	DD4463598	448.47	235.45	DD4463599	452.32	237.47	DD4463600	460.67	241.85	DD4463597	443.68	232.93

CT932

RAPIDKUT 5 Flute Variable Index Carbide End Mills

- Provides for maximum material removal and feed rates
- Advanced performance in steels, stainless steels, alloy steels, titanium and hardened steels
- AlCrN coating provides increased wear resistance
- Square end and corner radius

SAVE
25%



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Regular Price	SALE
1/4	1/4	3/8	2	None	PE1510925	30.25	22.69
1/4	1/4	3/8	2	.020	PE1510926	32.88	24.66
1/4	1/4	3/4	2-1/2	None	PE1510921	33.93	25.45
1/4	1/4	3/4	2-1/2	.020	PE1510922	35.70	26.78
1/4	1/4	1-1/4	3	None	PE1510929	38.05	28.54
5/16	5/16	7/8	2-1/2	None	PE1510933	41.75	31.31
5/16	5/16	1	3	None	PE1510936	43.93	32.95
3/8	3/8	1/2	2-1/2	None	PE1510940	48.65	36.49
3/8	3/8	1/2	2-1/2	.020	PE1510941	52.60	39.45
3/8	3/8	1	2-1/2	None	PE1510953	50.63	37.97
3/8	3/8	1	2-1/2	.020	PE1510954	53.58	40.19
3/8	3/8	1	2-1/2	.030	PE1510955	53.58	40.19
3/8	3/8	1	2-1/2	.060	PE1510956	53.58	40.19
3/8	3/8	1-1/4	3	None	PE1510959	62.10	46.58
3/8	3/8	2	4	None	PE1510960	75.00	56.25
3/8	3/8	2	4	.020	PE1510961	81.83	61.37
7/16	7/16	1	2-3/4	None	PE1510962	75.58	56.69
1/2	1/2	5/8	3	None	PE1510986	77.55	58.16
1/2	1/2	5/8	3	.030	PE1510988	82.80	62.10
1/2	1/2	1	3	None	PE1510966	94.28	70.71
1/2	1/2	1	3	.010	PE1510967	87.23	65.42
1/2	1/2	1-1/4	3	None	PE1510974	97.55	73.16
1/2	1/2	1-1/4	3	.030	PE1510975	91.60	68.70
1/2	1/2	1-1/4	3	.120	PE1510978	91.60	68.70
1/2	1/2	1-5/8	4	None	PE1510979	98.90	74.18
1/2	1/2	2	4	None	PE1510980	106.38	79.79
1/2	1/2	2	4	.030	PE1510982	115.85	86.89
5/8	5/8	3/4	3-1/2	None	PE1511000	144.60	108.45
5/8	5/8	3/4	3-1/2	.030	PE1511001	153.80	115.35
5/8	5/8	3/4	3-1/2	.120	PE1511004	153.80	115.35
5/8	5/8	1-1/2	3-1/2	None	PE1511008	151.83	113.87
5/8	5/8	1-5/8	4	.120	PE1511017	170.43	127.82
5/8	5/8	3-1/4	6	None	PE1511020	201.78	151.34
3/4	3/4	7/8	4	None	PE1511021	214.28	160.71
3/4	3/4	1-1/2	4	None	PE1511035	225.35	169.01
3/4	3/4	1-5/8	4	None	PE1511045	230.23	172.67
3/4	3/4	2-1/4	5	None	PE1511049	271.25	203.44
3/4	3/4	2-1/4	5	.035	PE1511050	295.38	221.54
3/4	3/4	3-1/4	6	None	PE1511051	294.25	220.69
1	1	1-1/2	4	.035	PE1511057	363.38	272.54
1	1	2-1/4	5	.035	PE1511062	458.38	343.79
1	1	3-1/4	6	None	PE1511065	434.65	325.99

CT928



TuffCut® XR 7 Flute Carbide End Mills

Altima® Blaze Coated

- Uniquely designed heli-pitch grinding geometry promotes continual, vibration free cutting regardless of depth of cut or width of cut
- 38° Helix
- M.A. Ford List #180



SAVE UP TO 25%

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Regular Price	SALE
1/4	1/4	3/8	2	None	DD1618900	40.85	30.64
1/4	1/4	3/8	2	.015	DD1618901	42.89	32.17
1/4	1/4	3/4	2-1/2	None	DD1618902	43.52	32.64
1/4	1/4	3/4	2-1/2	.015	DD1618903	45.70	34.28
1/4	1/4	1-1/4	3	None	DD1618904	79.67	59.75
3/8	3/8	1/2	2-1/2	None	DD1618908	67.31	50.48
3/8	3/8	1/2	2-1/2	.015	DD1618909	70.67	53.00
3/8	3/8	1/2	2-1/2	.030	DD1618932	70.67	53.00
3/8	3/8	1	2-1/2	None	DD1618910	71.68	53.76
3/8	3/8	1	2-1/2	.015	DD1618911	75.26	56.45
3/8	3/8	1	2-1/2	.030	DD1618934	75.26	56.45
3/8	3/8	1-1/2	4	None	DD1618912	111.49	83.62
1/2	1/2	5/8	3	None	DD1618512	101.26	75.95
1/2	1/2	5/8	3	.015	DD1518515	95.67	76.54
1/2	1/2	5/8	3	.030	DD1518517	95.67	76.54
1/2	1/2	5/8	3	.060	DD1618519	106.30	79.73
1/2	1/2	1-1/4	3	None	DD1518514	95.92	76.74
1/2	1/2	1-1/4	3	.015	DD1518516	100.71	80.57
1/2	1/2	1-1/4	3	.030	DD1518518	100.71	80.57
1/2	1/2	1-1/4	3	.060	DD1618520	111.90	83.93
1/2	1/2	2	4	None	DD1618916	154.47	115.85
5/8	5/8	3/4	3-1/2	None	DD1618532	191.06	143.30
5/8	5/8	3/4	3-1/2	.015	DD1618535	200.85	150.64
5/8	5/8	3/4	3-1/2	.030	DD1618537	200.85	150.64
5/8	5/8	1-1/4	3-1/2	None	DD1618534	201.11	150.83
5/8	5/8	1-1/4	3-1/2	.015	DD1518536	190.30	152.24
5/8	5/8	1-1/4	3-1/2	.030	DD1618538	211.44	158.58
5/8	5/8	2-1/4	5	None	DD1618920	276.08	207.06
3/4	3/4	1	4	None	DD1618570	280.86	210.65
3/4	3/4	1	4	.030	DD1618575	295.58	221.69
3/4	3/4	1	4	.060	DD1618577	295.58	221.69
3/4	3/4	1-1/2	4"	None	DD1518572	266.08	212.86
3/4	3/4	1-1/2	4	.030	DD1618576	311.12	233.34
3/4	3/4	1-1/2	4	.060	DD1618578	311.12	233.34
3/4	3/4	2-1/4	5	None	DD1618924	389.70	292.28

CT1066

WIDIA Solid Carbide AluSurf™ End Mills

2 and 3 Flute

- Center cutting
- Cylindrical shanks
- Unequal flute spacing
- Wiper facet design for improved floor finishes



SAVE 40%

Flutes - 2							
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Regular Price	SALE
1/4	1/4	1/2	2-1/2	None	WK403336098	51.28	30.77
3/8	3/8	3/4	2-1/2	None	WK403336102	74.37	44.62
1/2	1/2	1-1/4	3	None	WK403336104	107.18	64.31
Flutes - 3							
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Regular Price	SALE
1/4	1/4	1/2	2-1/2	None	WK403336112	51.28	30.77
1/4	1/4	1/2	2-1/2	.060	WK403738929	57.70	34.62
3/8	3/8	3/4	2-1/2	None	WK403336116	74.37	44.62
1/2	1/2	1-1/4	3	None	WK403336118	107.18	64.31
1/2	1/2	1-1/4	3	.030	WK403336119	125.95	75.57
1/2	1/2	1-1/4	3	.090	WK403739147	125.95	75.57
3/4	3/4	1-1/2	4	None	WK403336122	267.96	160.78

CT1106

CUTTING TOOLS



TuffCut® XT 4 Flute Carbide Ball Nose End Mills

Variable Helix • Altima® Blaze Coated

SAVE 25%

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



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/2	1/2	1-1/4	3	DD1627932	122.04	91.53
1/2	1/2	5/8	2-1/2	DD1627930	114.64	85.98
1/4	1/4	3/4	2-1/2	DD1627920	45.32	33.99
1/4	1/4	3/8	2	DD1627918	42.47	31.85
1/8	1/8	1/4	1-1/2	DD1627910	25.15	18.86
1/8	1/8	3/8	1-1/2	DD1627912	26.69	20.02
3/16	3/16	3/8	2	DD1627914	34.82	26.12
3/16	3/16	5/8	2	DD1627916	37.07	27.80
3/4	3/4	1-1/2	4	DD1627936	338.64	253.98
3/8	3/8	1/2	2	DD1627926	70.02	52.52
3/8	3/8	7/8	2-1/2	DD1627928	74.58	55.94
5/16	5/16	1/2	2	DD1627922	58.24	43.68
5/16	5/16	13/16	2-1/2	DD1627924	62.09	46.57
5/8	5/8	1-1/4	3-1/2	DD1627934	230.42	172.82
7/16	1	7/16	2-1/2	DD1627931	96.05	72.04
7/16	1/2	7/16	2-1/2	DD1627929	90.37	67.78

CT1081

PRO-CUT MultiFlute Single End Mills

High Speed Steel • Center Cutting

SAVE UP TO 55%



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	12.32	5.54
5/16	3/8	2	3-3/4	4	CT57FX10	12.21	5.49
3/8	3/8	2-1/2	4-1/4	4	CT57FX12	12.82	5.77
1/2	1/2	3	5	4	CT57FX16	16.91	10.15
5/8	5/8	4	6-1/8	4	CT57FX20	24.08	10.84
3/4	3/4	4	6-1/4	4	CT57FX24	27.83	12.52

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	5.58
3/8	3/8	1-1/2	3-1/4	4	CT56FL12	9.30	5.58
1/2	1/2	2	4	4	CT56FL16	12.77	7.66
5/8	5/8	2-1/2	4-5/8	4	CT56FL20	18.14	10.88
3/4	1/2	3	5-1/4	4	CT56FL24X	22.12	13.27
3/4	3/4	3	5-1/4	4	CT56FL24	22.12	13.27
7/8	3/4	3-1/2	5-1/2	4	CT56FL28W	27.78	16.67
7/8	7/8	3-1/2	5-3/4	4	CT56FL28	27.78	16.67
1	1	4	6-1/2	4	CT56FL32	36.68	22.01
1-1/4	3/4	4	6-1/2	6	CT56FL40W	64.90	38.94
1-1/4	1-1/4	4	6-1/2	4	CT56FL40A	64.90	38.94
2	1-1/4	4	6-1/2	6	CT56FL64B	123.98	80.59

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	7.62	4.19
3/16	3/8	1/2	2-3/8	4	CT55F6	7.62	4.19
1/4	3/8	5/8	2-7/16	4	CT55F8	7.62	4.19
9/32	3/8	3/4	2-1/2	4	CT55F9	7.84	4.31
5/16	3/8	3/4	2-1/2	4	CT55F10	7.62	4.19
11/32	3/8	3/4	2-1/2	4	CT55F11	6.50	3.58
3/8	3/8	3/4	2-1/2	4	CT55F12	7.62	4.19
7/16	3/8	1	2-11/16	4	CT55F14	11.20	6.16
1/2	3/8	1	2-11/16	4	CT55F16X	8.55	4.70
1/2	1/2	1-1/4	3-1/4	4	CT55F16	11.09	6.10
9/16	1/2	1-3/8	3-3/8	4	CT55F18	13.27	7.30
5/8	5/8	1-5/8	3-3/4	4	CT55F20	16.02	8.81
11/16	1/2	1-5/8	3-5/8	4	CT55F22X	17.47	9.61
11/16	5/8	1-5/8	3-3/4	4	CT55F22	17.47	9.61
7/8	7/8	1-7/8	4-1/8	4	CT55F28	24.81	13.65
1	3/4	1-7/8	4-1/8	4	CT55F32W	27.10	14.91
1	1	2	4-1/2	4	CT55F32Y	29.12	16.02
1	1	2	4-1/2	6	CT55F32YA	24.64	16.02
1-1/8	3/4	2	4-1/4	6	CT55F36W	41.05	22.58
1-1/4	3/4	2	4-1/4	6	CT55F40W	44.13	24.27
1-1/4	1	2	4-1/2	6	CT55F40	45.81	25.20
1-1/4	1-1/4	2	4-1/2	4	CT55F40A	45.81	25.20
1-1/2	1-1/4	2	4-1/2	6	CT55F40Y	45.81	25.20
1-1/2	1-1/4	2	4-1/2	4	CT55F48A	56.17	33.70
1-5/8	1-1/4	2	4-1/2	6	CT55F52	61.38	33.76
1-7/8	3/4	2-1/2	4-1/2	6	CT55F60W	73.47	47.76
1-7/8	1-1/4	2	4-1/2	6	CT55F60	70.34	45.72
2	1-1/4	2	4-1/2	8	CT55F64	78.85	51.25

CT604

Prices Effective January 1, 2020 Thru March 31, 2020

CUTTING TOOLS



STREAKERS® M233 Solid Carbide 3 Flute Roughers

- For high performance machining in aluminum alloys
- Special cutting edge serrations reduce the horsepower needed to plow through aluminum alloys at high metal removal rates
- ZrN coating helps reduce chip packing even in heavy tool engagement cuts

N Best in Aluminum and Non-ferrous

**SAVE
25%**



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Regular Price	SALE
1/4	1/4	3/4	2-1/2	.015	DD4061108	55.76	29.27
1/4	1/4	1	3	.015	DD4061109	74.00	38.85
3/8	3/8	15/16	2-1/2	.015	DD4061110	74.04	38.87
3/8	3/8	1-1/8	3	.015	DD4061111	84.40	44.31
3/8	3/8	1-1/2	3-1/2	.015	DD4061112	100.38	52.70
1/2	1/2	1-1/4	3	.030	DD4061113	118.68	62.31
1/2	1/2	1-1/2	3-1/2	.030	DD4061114	149.87	78.68
1/2	1/2	2	4	.030	DD4061115	177.63	93.25
5/8	5/8	1-1/4	3-1/2	.030	DD4061116	217.58	114.23
5/8	5/8	1-7/8	4	.030	DD4061117	259.69	136.34
3/4	3/4	1-5/8	4	.030	DD4061118	332.45	174.54
3/4	3/4	2-1/4	5	.030	DD4061119	415.65	218.22
1	1	1-1/4	4	.030	DD4061120	515.27	270.52
1	1	2	5	.030	DD4061121	586.14	307.73

CT1034

RAPIDKUT® 3 Flute Solid Carbide

End Mills

For Aluminum

- Square end
- 36° Helix
- Center cutting
- Cutter diameter tolerance: +.0000 / -.0005"



**SAVE
30%**

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	PE1230125	16.91	11.84
3/16	3/16	5/8	2	Round	PE1230187	24.50	17.15
1/4	1/4	1/2	2	Round	PE1230250	23.60	16.52
1/4	1/4	1	2-1/2	Round	PE1230255	32.07	22.45
1/4	1/4	1	2-1/2	Weldon	PE1230260	35.84	25.09
1/4	1/4	1-1/4	3	Round	PE1230265	44.65	31.26
5/16	5/16	1	2-1/2	Round	PE1230312	41.46	29.02
3/8	3/8	5/8	2-1/2	Round	PE1230375	41.33	28.93
3/8	3/8	1	2-1/2	Round	PE1230380	45.82	32.07
3/8	3/8	1	2-1/2	Weldon	PE1230385	50.43	35.30
3/8	3/8	1-1/2	3-1/4	Round	PE1230390	66.98	46.89
3/8	3/8	2	4	Round	PE1230400	71.81	50.27
1/2	1/2	3/4	3	Round	PE1230500	64.61	45.23
1/2	1/2	1-1/4	3	Round	PE1230505	73.08	51.16
1/2	1/2	1-1/4	3-1/4	Weldon	PE1230510	79.74	55.82
1/2	1/2	2	4	Round	PE1230515	89.38	62.57
1/2	1/2	2-1/2	5	Round	PE1230520	111.63	78.14
1/2	1/2	3-1/4	6	Round	PE1230525	137.15	96.01
5/8	5/8	1	3-1/2	Round	PE1230625	118.00	82.60
5/8	5/8	1-5/8	3-1/2	Round	PE1230630	123.47	86.43
5/8	5/8	1-5/8	3-1/2	Weldon	PE1230635	118.00	82.60
5/8	5/8	2-1/2	5	Weldon	PE1230640	169.68	118.78
5/8	5/8	3-1/4	6	Round	PE1230645	176.37	123.46
5/8	5/8	3-1/4	6	Weldon	PE1230650	181.80	127.26
3/4	3/4	1	4	Round	PE1230750	140.00	98.00
3/4	3/4	1-3/4	4	Round	PE1230755	153.61	107.53
3/4	3/4	2-1/2	5	Round	PE1230760	236.01	165.21
3/4	3/4	3-1/4	6	Round	PE1230765	292.48	204.74
3/4	3/4	4	6-1/2	Round	PE1230770	312.56	218.79
1	1	1-1/4	4	Round	PE1231000	251.62	176.13
1	1	1-3/4	4	Round	PE1231005	266.64	186.65
1	1	2-1/2	5	Round	PE1231010	350.83	245.58
1	1	3-1/4	6	Round	PE1231015	398.67	279.07
1	1	3-1/4	6	Weldon	PE1231020	405.21	283.65

CT970

4 Flute TuffCut® XR HP

ALtita® Coated End Mill

Center Cutting • Variable Helix • Fractional Sizes

- Recommended for slotting and general purpose milling
- Very high feed rates & excellent surface finish
- Unique flute geometry allows for increased feeds and speeds while reducing harmonics
- Coated with ALtita® (AlTiN) for extended tool life
- M A Ford List #177



**SAVE UP TO
25%**

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Regular Price	SALE
3/32	1/8	3/16	1-1/2	None	DD1517696	25.32	20.26
1/8	1/8	3/8	1-1/2	None	DD1617701	21.25	15.94
5/32	3/16	7/16	2	None	DD1517703	27.01	21.61
3/16	3/16	3/16	2	.015	DD1517733	26.01	20.81
3/16	3/16	7/16	2	None	DD1617705	29.37	22.03
3/16	3/16	7/16	2	.015	DD1517735	27.71	22.17
1/4	1/4	1/4	2	None	DD1517708	30.39	24.31
1/4	1/4	1/4	2	.015	DD1517741	31.76	25.41
1/4	1/4	1/2	2-1/2	None	DD1617709	35.96	26.97
1/4	1/4	1/2	2-1/2	.015	DD1517743	33.75	27.00
3/8	3/8	3/8	2	None	DD1517714	50.06	40.05
3/8	3/8	3/8	2	.015	DD1517753	52.61	42.09
3/8	3/8	7/8	2-1/2	None	DD1617715	59.23	44.42
3/8	3/8	7/8	2-1/2	.015	DD1517755	55.97	44.78
1/2	1/2	1/2	2-1/2	None	DD1517720	81.86	65.49
1/2	1/2	1/2	2-1/2	.015	DD1517765	86.07	68.86
1/2	1/2	1/2	2-1/2	.030	DD1517766	86.07	68.86
1/2	1/2	1	3	None	DD1617721	96.89	72.67
1/2	1/2	1	3	.015	DD1517767	91.56	73.25
1/2	1/2	1	3	.030	DD1517768	91.56	73.25
1/2	1/2	1-1/4	3	.015	DD1618095	106.88	80.16
1/2	1/2	1	3	.060	DD1517901	91.56	73.25
5/8	5/8	5/8	3	None	DD1517723	154.68	123.74
5/8	5/8	1-1/4	3-1/2	None	DD1617724	182.83	137.12
5/8	5/8	1-1/4	3-1/2	.015	DD1518001	172.96	138.37
5/8	5/8	1-1/4	3-1/2	.125	DD1617906	192.18	144.14
3/4	3/4	3/4	3	None	DD1517725	226.42	181.14
3/4	3/4	1-1/2	4	None	DD1617726	268.78	201.59
3/4	3/4	1-1/2	4	.015	DD1518003	254.56	203.65
3/4	3/4	1-1/2	4	.030	DD1517777	254.56	203.65
3/4	3/4	1-1/2	4	.060	DD1517907	254.56	203.65

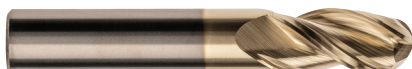
CT945



STREAKERS® M223 Solid Carbide Ball Nose End Mills for Aluminum

- For high performance machining in aluminum alloys
- Improved floor and wall finishes, better ramping ability and longer tool life
- Unique grinds curl and evacuate gummy aluminum chips, allowing high feed rates without chip packing
- Excellent for roughing and finishing

N Best in Aluminum and Non-ferrous



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/8	1/8	3/8	1-1/2	DD4061003	41.01	32.81
3/16	3/16	9/16	2	DD4061008	42.88	34.30
1/4	1/4	3/4	2-1/2	DD4061015	47.52	38.02
3/8	3/8	15/16	2-1/2	DD4061029	68.85	55.08
1/2	1/2	1	3	DD4061049	101.26	81.01
5/8	5/8	1-7/8	4	DD4061072	218.68	174.94
3/4	3/4	1-5/8	4	DD4061079	267.14	213.71

CT1104



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 Pc. Set			7 Pc. Set		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
60°	BC7579003	100.88	80.70	BC7579001	146.79	117.43
82°	BC7579008	100.88	80.70	BC7579006	146.79	117.43
90°	BC7579013	100.88	80.70	BC7579011	146.79	117.43

CT678



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	9.83	8.36	BC7061061	9.83	8.36
3/8	1/4	2	BC7061081	11.17	9.49	BC7061086	11.17	9.49
1/2	1/4	2	BC7061106	13.61	11.57	BC7061111	13.61	11.57
5/8	1/4	2-1/4	BC7061131	18.17	15.44	BC7061136	18.17	15.44
3/4	1/2	2-3/4	BC7061156	26.53	22.55	BC7061161	26.53	22.55
1	1/2	2-3/4	BC7061181	44.19	37.56	BC7061186	44.19	37.56
1-1/4	1/2	3	BC7061206	86.45	73.48	BC7061211	86.45	73.48
1-1/2	3/4	3-1/2	BC7061221	117.05	99.49	BC7061226	117.05	99.49

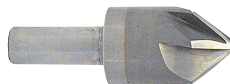
†Straight shank with tang drive.

CT059



Carbide 6 Flute Chatterless Countersinks

- Solid carbide construction (steel shanks on tools 3/8" diameter and larger) makes this countersink ideal for hardened steel, high temperature alloys and other tough jobs



Size (in.)	Shank Dia. (in.)	OAL (in.)	82°			90°		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4	1/4	2	BC7378056	21.17	16.94	BC7378061	21.17	16.94
3/8	1/4	2	BC7378081	41.25	33.00	BC7378086	41.25	33.00
1/2	3/8	2-1/4	BC7378106	57.15	45.72	BC7378111	57.15	45.72
5/8	3/8	2-3/8	BC7378131	74.55	59.64	BC7378136	74.55	59.64
3/4	1/2	2-3/4	BC7378156	106.37	85.10	BC7378161	106.37	85.10
1	1/2	2-3/4	BC7378181	173.90	139.12	BC7378186	173.90	139.12
1-1/4	1/2	3	BC7378206	214.34	171.47	BC7378211	214.34	171.47
1-1/2	3/4	3-1/2	BC7378221	254.78	203.82	BC7378226	254.78	203.82

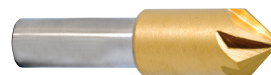
†Straight shank with tang drive.

CT679

RAPIDKUT® 6 Flute Countersinks

M-42 Cobalt • TiN Coated

- Excellent for countersinking abrasive, high-strength, heat resistant, exotic, and other difficult to machine materials
- TiN coated for higher surface hardness and better lubricity
- Coating can also help to enhance productivity and extend tool life



Size (in.)	Shank (in.)	OAL (in.)	60°			82°			90°			120°		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8	1/8	1-1/2	BC6418182	11.80	9.44	BC6418183	11.80	9.44	BC6418184	11.80	9.44	BC6418187	11.94	9.55
3/16	3/16	1-1/2	BC6418188	12.44	9.95	BC6418189	12.44	9.95	BC6418190	12.44	9.95	BC6418193	12.60	10.08
1/4	1/4	2	BC6418194	13.39	10.71	BC6418195	13.39	10.71	BC6418196	13.39	10.71	BC6418199	13.48	10.78
5/16	1/4	2	BC6418200	15.55	12.44	BC6418201	15.55	12.44	BC6418202	15.55	12.44	BC6418205	15.71	12.57
3/8	1/4	2	BC6418206	17.11	13.69	BC6418207	17.11	13.69	BC6418208	17.11	13.69	BC6418211	17.18	13.74
1/2	3/8	2	BC6418212	23.41	18.73	BC6418213	23.41	18.73	BC6418214	23.41	18.73	BC6418217	23.21	18.57
5/8	3/8	2-1/4	BC6418218	32.89	26.31	BC6418219	32.91	26.33	BC6418220	32.91	26.33	BC6418223	32.64	26.11
3/4	1/2	2-3/4	BC6418224	44.46	35.57	BC6418225	44.44	35.55	BC6418226	44.44	35.55	BC6418229	44.46	35.57
7/8	1/2	2-3/4	BC6418230	60.51	48.41	BC6418231	60.51	48.41	BC6418232	60.51	48.41	BC6418235	61.50	49.20
1	1/2	2-3/4	BC6418236	68.68	54.94	BC6418237	68.61	54.89	BC6418238	68.61	54.89	BC6418241	69.48	55.58
1-1/4	1/2	3	BC6418242	112.54	90.03	BC6418243	112.54	90.03	BC6418244	112.54	90.03	-	-	-

CT967

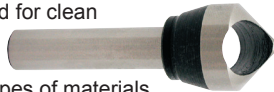
CUTTING TOOLS



ZEro Flute Countersinks & Deburring Tool Sets

Straight Shank • M35 Cobalt

- Micro-smooth CNC precision ground for clean smooth cutting without smearing
- M35 cobalt: 6% tungsten, 5% moly, 5% cobalt – for long tool life in all types of materials
- Cam relieved for totally chatter-free cuts
- Through-hole design that is easy to resharpen using a small grinding wheel in the cross-hole



Set Angle	No. of Pcs.	Head Dia. Included (in.)	Order No.	Regular Price	SALE
60°	4	5/16, 3/8, 1/2, 5/8	AV4253508	76.12	68.51
60°	5	5/16, 3/8, 1/2, 3/4, 1	AV4253509	129.64	116.68
82°	4	5/16, 3/8, 1/2, 5/8	AV4253518	76.12	68.51
82°	5	5/16, 3/8, 1/2, 3/4, 1	AV4253519	129.64	116.68
90°	4	5/16, 3/8, 1/2, 5/8	AV4253528	76.12	68.51
90°	5	5/16, 3/8, 1/2, 3/4, 1	AV4253529	129.64	116.68

CT960



Long Series Combined Drills & Countersinks

60° • High Speed Steel

Size	OAL (in.)	Body Dia. (in.)	Drill Dia. (in.)	Order No.	Regular Price	SALE
1	3	1/8	3/64	AV4221030	13.13	11.82
1	4	1/8	3/64	AV4221040	13.70	12.33
1	5	1/8	3/64	AV4221050	19.03	17.13
1	6	1/8	3/64	AV4221060	24.92	22.43
2	3	3/16	5/64	AV4222030	13.28	11.95
2	4	3/16	5/64	AV4222040	15.02	13.52
2	5	3/16	5/64	AV4222050	19.24	17.32
2	6	3/16	5/64	AV4222060	25.02	22.52
3	3	1/4	7/64	AV4223030	13.87	12.48
3	4	1/4	7/64	AV4223040	15.82	14.24
3	5	1/4	7/64	AV4223050	20.81	18.73
3	6	1/4	7/64	AV4223060	25.25	22.73
4	3	5/16	1/8	AV4224030	16.28	14.65
4	4	5/16	1/8	AV4224040	17.52	15.77
4	5	5/16	1/8	AV4224050	22.40	20.16
4	6	5/16	1/8	AV4224060	25.86	23.27
4-1/2	4	3/8	9/64	AV4224540	19.70	17.73
4-1/2	5	3/8	9/64	AV4224550	23.28	20.95
4-1/2	6	3/8	9/64	AV4224560	28.10	25.29
5	4	7/16	3/16	AV4225040	23.03	20.73
5	5	7/16	3/16	AV4225050	26.67	24.00
5	6	7/16	3/16	AV4225060	29.94	26.95
6	4	1/2	7/32	AV4226040	24.99	22.49
6	5	1/2	7/32	AV4226050	28.65	25.79
6	6	1/2	7/32	AV4226060	34.63	31.17
7	6	5/8	1/4	AV4227060	64.54	58.09
8	6	3/4	5/16	AV4228060	69.69	62.72

CT901

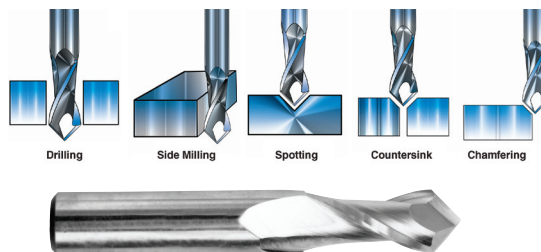
CUTTING TOOLS

RAPIDKUT® 2 Flute and 4 Flute Drill Mills

60 • 82 • 90 Degree

- Can be used for drilling, slotting, chamfering and profile milling
- Made from premium submicron grain carbide
- Tolerance: + .000 / -.002"

SAVE UP TO
30%



Number of Flutes - 2																					
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	AITIN									Uncoated								
				60 Degree			82 Degree			90 Degree			60 Degree			82 Degree			90 Degree		
				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
.015	1/8	.045	1-1/2	-	-	-	-	-	-	HC5120155	36.35	25.45	-	-	-	-	-	-	HC5120150	31.93	22.35
.020	1/8	.060	1-1/2	-	-	-	-	-	-	HC5120165	36.35	25.45	-	-	-	-	-	-	HC5120160	31.93	22.35
.025	1/8	.075	1-1/2	-	-	-	-	-	-	HC5120175	36.35	25.45	-	-	-	-	-	-	HC5120170	31.93	22.35
.030	1/8	.090	1-1/2	-	-	-	-	-	-	HC5120185	34.11	23.88	-	-	-	-	-	-	HC5120180	29.90	20.93
1/32	1/8	3/32	1-1/2	-	-	-	-	-	-	HC5120195	30.35	21.25	-	-	-	-	-	-	HC5120190	26.23	18.36
.045	1/8	.105	1-1/2	-	-	-	-	-	-	HC5120205	29.62	20.73	-	-	-	-	-	-	HC5120200	25.79	18.05
3/64	1/8	1/8	1-1/2	-	-	-	-	-	-	HC5120215	30.35	21.25	-	-	-	-	-	-	HC5120210	26.23	18.36
.060	1/8	.180	1-1/2	-	-	-	-	-	-	HC5120225	29.62	20.73	-	-	-	-	-	-	HC5120220	25.79	18.05
1/16	1/8	3/16	1-1/2	HC5120235	30.35	21.25	HC5120245	31.33	21.93	HC5120255	30.35	21.25	HC5120230	26.23	18.36	HC5120240	27.20	19.04	HC5120250	26.23	18.36
5/64	1/8	3/16	1-1/2	-	-	-	-	-	-	HC5120265	30.35	21.25	-	-	-	-	-	-	HC5120260	26.23	18.36
3/32	1/8	3/8	1-1/2	HC5120275	30.35	21.25	-	-	-	HC5120285	30.35	21.25	HC5120270	26.23	18.36	-	-	-	HC5120280	26.23	18.36
1/8	1/8	1/2	1-1/2	HC5120295	30.35	21.25	HC5120305	31.33	21.93	HC5120315	30.35	21.25	HC5120290	26.23	18.36	HC5120300	27.20	19.04	HC5120310	26.23	18.36
5/32	3/16	9/16	2	-	-	-	-	-	-	HC5120325	31.62	22.13	-	-	-	-	-	-	HC5120320	27.20	19.04
3/16	3/16	5/8	2	HC5120335	31.62	22.13	HC5120345	32.31	22.62	HC5120355	31.62	22.13	HC5120330	27.20	19.04	HC5120340	27.89	19.52	HC5120350	27.20	19.04
1/4	1/4	3/4	2-1/2	HC5120365	44.59	31.21	HC5120375	45.76	32.03	HC5120385	44.59	31.21	HC5120360	38.50	26.95	HC5120370	39.68	27.78	HC5120380	38.50	26.95
5/16	5/16	13/16	2-1/2	-	-	-	-	-	-	HC5120395	47.43	33.20	-	-	-	-	-	-	HC5120390	36.57	25.60
3/8	3/8	1	2-1/2	HC5120405	56.38	39.47	HC5120415	57.85	40.50	HC5120425	56.38	39.47	HC5120400	48.32	33.82	HC5120410	49.80	34.86	HC5120420	44.41	31.09
7/16	7/16	1	2-3/4	-	-	-	-	-	-	DD8356088	65.18	45.63	-	-	-	-	-	-	DD8316088	46.46	32.52
1/2	1/2	1	3	HC5120435	88.50	61.95	HC5120445	90.76	63.53	HC5120455	88.50	61.95	HC5120430	76.52	53.56	-	-	-	HC5120450	76.12	53.28
1/2	1/2	1-1/8	3-1/8	-	-	-	-	-	-	-	-	-	-	-	-	HC5120440	78.77	55.14	-	-	-
5/8	5/8	1-1/4	3-1/2	-	-	-	-	-	-	DD8356090	119.89	83.92	-	-	-	-	-	-	HC5120460	137.14	96.00
3/4	3/4	1-1/2	4	-	-	-	-	-	-	DD8356091	178.52	124.96	-	-	-	-	-	-	HC5120465	209.11	146.38

Number of Flutes - 4																												
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	AITIN												TIN							Uncoated					
				60 Degree			82 Degree			90 Degree			90 Degree			60 Degree			82 Degree			90 Degree						
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE				
1/32	1/8	3/32	1-1/2	HC5140305	30.35	21.25	-	-	-	HC5140315	30.35	21.25	-	-	-	HC5140300	26.23	18.36	-	-	-	HC5140310	26.23	18.36				
3/64	1/8	1/8	1-1/2	HC5140330	30.35	21.25	-	-	-	HC5140335	30.35	21.25	-	-	-	HC5140320	26.23	18.36	-	-	-	HC5140325	26.23	18.36				
1/16	1/8	3/16	1-1/2	HC5140345	30.35	21.25	HC5140355	32.70	22.89	HC5140365	30.35	21.25	HC5140370	28.98	20.29	HC5140340	26.23	18.36	HC5140350	28.58	20.01	HC5140360	26.23	18.36				
5/64	1/8	3/16	1-1/2	HC5140380	30.35	21.25	HC5140390	32.70	22.89	HC5140400	30.35	21.25	-	-	-	HC5140375	26.23	18.36	HC5140385	28.58	20.01	HC5140395	26.23	18.36				
3/32	1/8	3/8	1-1/2	HC5140410	30.35	21.25	HC5140420	32.70	22.89	HC5140430	30.35	21.25	HC5140435	28.98	20.29	HC5140405	26.23	18.36	HC5140415	28.58	20.01	HC5140425	26.23	18.36				
1/8	1/8	1/2	1-1/2	HC5140445	30.35	21.25	HC5140455	32.70	22.89	HC5140465	30.35	21.25	HC5140470	28.98	20.29	HC5140440	26.23	18.36	HC5140450	28.58	20.01	HC5140460	26.23	18.36				
5/32	3/16	9/16	2	HC5140480	31.62	22.13	-	-	-	HC5140490	31.62	22.13	-	-	-	HC5140475	27.20	19.04	-	-	-	HC5140485	27.20	19.04				
3/16	3/16	5/8	2	HC5140500	31.62	22.13	HC5140510	33.98	23.79	HC5140520	31.62	22.13	HC5140525	30.35	21.25	HC5140495	27.20	19.04	HC5140505	29.56	20.69	HC5140515	27.20	19.04				
1/4	1/4	3/4	2-1/2	HC5140535	44.59	31.21	HC5140545	47.43	33.20	HC5140555	44.59	31.21	HC5140560	41.84	29.29	HC5140530	38.50	26.94	HC5140540	41.34	28.94	HC5140550	38.50	26.95				
5/16	5/16	13/16	2-1/2	HC5140570	47.43	33.20	HC5140580	50.18	35.13	HC5140590	47.43	33.20	HC5140595	44.98	31.49	HC5140565	40.36	28.25	HC5140575	43.12	30.18	HC5140585	40.36	28.25				
3/8	3/8	1	2-1/2	HC5140605	56.38	39.47	HC5140615	59.52	41.66	HC5140625	56.38	39.47	HC5140630	53.14	37.20	HC5140600	48.32	33.82	HC5140610	51.47	36.03	HC5140620	48.32	33.82				
7/16	7/16	1	2-3/4	HC5140640	84.77	59.34	-	-	-	HC5140650	84.77	59.34	-	-	-	HC5140635	74.74	52.32	-	-	-	HC5140645	74.74	52.32				
1/2	1/2	1	3	HC5140660	88.50	61.95	HC5140670	92.43	64.70	HC5140680	88.50	61.95	HC5140685	81.92	57.34	HC5140655	76.52	53.56	HC5140665	80.44	56.31	HC5140675	76.52	53.56				
5/8	5/8	1-1/4	3-1/2	HC5140695	128.76	103.01	HC5140705	133.88	107.10	HC5140715	128.76	103.01	HC5140720	123.85	99.08	HC5140690	116.79	93.43	HC5140700	121.89	97.51	HC5140710	116.79	81.75				
3/4	3/4	1-1/2	4	HC5140730	190.16	152.13	HC5140740	197.04	137.93	HC5140750	190.16	133.11	HC5140755	185.25	148.20	HC5140725	177.19	141.75	HC5140735	184.07	147.26	HC5140745	177.19	124.03				

CT1026

PRO CUT Capscrew Counterbore Sets

- High speed steel & cobalt
- Straight shank
- In plastic pouch

SAVE
40%



Set Material - Cobalt			
Includes	Order No.	Regular Price	SALE
6, 8, 10, 1/4, 5/16, 3/8, 1/2	CD60SS1CO	150.10	90.06
Set Material - High Speed Steel			
Includes	Order No.	Regular Price	SALE
6, 8, 10, 1/4, 5/16, 3/8, 1/2	CD50SS1	114.95	68.97
1/4, 5/16, 3/8, 1/2, 5/8, 3/4	CD50SS2	160.70	96.42

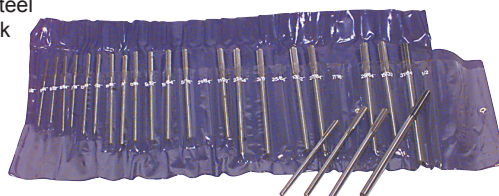
CT162

PRO CUT Chucking Reamer Sets

In Vinyl Roll Pouch

- High speed steel
- Straight shank
- Straight flute

SAVE
40%



No. of Reamers	Set Range	Order No.	Regular Price	SALE
14	.1240 - .5010 Over/Under Size	BD60110	108.14	64.88
25	1/8" - 1/2" by 64ths	BD60150	198.80	119.28
25	1mm - 13mm by .5mm	BD60170	208.54	125.12
26	A - Z Letter Size	BD60130	208.66	125.20
30	#1 - #30 Wire Gage Size	BD60120	214.20	128.52

CT091

Prices Effective January 1, 2020 Thru March 31, 2020



Replacement Blades

SAVE UP TO
40%

Item	Description	Blade No.	Shaviv Equivalent	Order No.	Regular Price	SALE
	Steel, Aluminum, Plastic, Cobalt	B10CO	-	FN55B10CO	2.36	1.42
	Steel, Aluminum, Plastic	N1	B10	FN55N1	1.84	1.10
	Steel, Aluminum, Plastic, Solid Carbide	N1C	B10C	FN55N1C	6.58	4.28
	Steel, Aluminum, Plastic, Diamond Coated	N1D	-	FN55N1D	11.15	7.81
	Steel, Aluminum, Plastic - Left Handed	N1LH	-	FN55N1LH	2.57	1.54
	High Wear Materials, TIN Coated	N1TIN	B10P	FN55N1TIN	2.40	1.56
	Brass, Cast Iron	N2	B20	FN55N2	1.85	1.11
	Brass, Cast Iron	N2C	B20C	FN55N2C	6.60	4.62
	Remove External & Internal Burrs	N3	B30	FN55N3	2.37	1.54
	Inside Cross Holes and Back Side of Walls	N6	B60	FN55N6	3.56	2.31
	Steel, Aluminum, Plastic	S10	E100	FN55S10	2.41	1.45
	Stainless Steel	S100	-	FN55S100	2.80	1.68
	Small Holes	S101	-	FN55S101	2.48	1.49
	Small Holes - Left Handed	S101LH	-	FN55S101LH	2.96	1.78
	Steel, Aluminum, Plastic, Diamond Coated	S10D	-	FN55S10D	11.48	8.04
	Steel, Aluminum, Plastic - Left Handed	S10LH	-	FN55S10LH	3.33	2.00
	High Wear Materials, TIN Coated	S10TIN	E100P	FN55S10TIN	3.08	1.85
	Very Small Holes	S150	-	FN55S150	2.75	1.65
	Very Small Holes, TIN Coated	S150-TIN	-	FN55BK3112	3.62	2.35
	Brass, Cast Iron	S20	E200	FN55S20	2.64	1.58
	Fine Point for Brass + Cast Iron	S202	-	FN55S202	2.75	1.65
	Remove External & Internal Burrs	S30	E300	FN55S30	2.66	1.60
	For Straight Edges	S35	E350	FN55S35	2.70	1.62
	Inside Cross Holes and Back Side of Walls	S60	E600	FN55S60	3.75	2.25

CT907



NG Handles & S & N Holders



SAVE
30%

Holds	Type	Order No.	Regular Price	SALE
N Blades	N Blade Holder	FN55EL01003	6.23	4.36
N Blades	NG-2 Handle	FN55NG2000	7.98	5.59
S Blades	S Blade Holder	FN55EL02003	6.23	4.36
S Blades	NG-1 Handle	FN55NG1000	7.75	5.43
All Blade Holders	NG-3 Handle	FN55NG3000	7.98	5.59

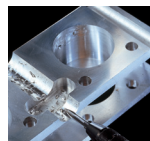
CT858



Adjustable Scraper

SAVE
30%

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



Deburring Application	Order No.	Regular Price	SALE
Scraping, Trimming, Deburring	FN55SC8000	18.08	12.66
Scraper Blade for SC Holder (80mm)	FN55T80	7.65	5.36

HT544



Double Burr

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

SAVE
30%



Type	Order No.	Regular Price	SALE
Deburring	FN55N80	5.05	3.54
Double Burr Set	FN55DB1000	20.98	14.69

HT393

CUTTING TOOLS



Multi-Purpose 007 Deburring Kit

Kit Contains:

Thread cleaner blade, "O" ring grooves blade, RotoDrive countersink, external RotoDrive countersink, fine tip S150 blade, 1/2" hex, aluminum handle.

SAVE
30%



HT375



Universal Handy Chuck Holder

Model PV1000

SAVE
30%

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



CT929

Order No.	Regular Price	SALE
FN55PV1000	52.03	36.42



Ceramic Convexed Cera-Cut

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



SAVE
30%

Order No.	Regular Price	SALE
FN55CR2000	31.23	21.86

CT870

RAPIDKUT NF Burrs For Aluminum - 1/4" Shank

SAVE UP TO
40%

Designed for use on aluminum, non-ferrous metals, soft steel, reinforced plastics, and other soft materials. High flute finish for easy chip flow and fast stock removal. Also provides excellent work finish with minimum loading when cutting soft, sticky metals

MADE IN THE
USA

Shape - 14" Taper Shape				
Size (in.)	Burr No.	Order No.	Regular Price	SALE
3/8 x 1-1/16	SL3NF	FP50SL3NF	36.25	21.75
1/2 x 1-1/8	SL4NF	FP50SL4NF	36.22	25.35
5/8 x 1-5/16	SL6NF	FP50SL6NF	86.00	51.60
3/4 x 1-1/2	SL7NF	FP50SL7NF	96.10	57.66



Shape - Ball End				
Size (in.)	Burr No.	Order No.	Regular Price	SALE
1/4 x 3/16	SD1NF	FP50SD1NF	14.47	10.13
3/8 x 5/16	SD3NF	FP50SD3NF	19.99	11.99
1/2 x 7/16	SD5NF	FP50SD5NF	29.03	18.87
5/8 x 9/16	SD6NF	FP50SD6NF	42.75	25.65
3/4 x 11/16	SD7NF	FP50SD7NF	62.49	40.62



Shape - Cylindrical				
Size (in.)	Burr No.	Order No.	Regular Price	SALE
1/4 x 3/4	SA1NF	FP50SA1NF	18.84	11.30
3/8 x 3/4	SA3NF	FP50SA3NF	24.48	14.69
1/2 x 1	SA5NF	FP50SA5NF	33.53	21.79
5/8 x 1	SA6NF	FP50SA6NF	44.77	31.34
3/4 x 1	SA7NF	FP50SA7NF	62.62	43.83



Shape - Cylindrical Radius End				
Size (in.)	Burr No.	Order No.	Regular Price	SALE
1/4 x 3/4	SC1NF	FP50SC1NF	15.58	10.91
3/8 x 3/4	SC3NF	FP50SC3NF	26.21	15.73
1/2 x 1	SC5NF	FP50SC5NF	34.66	22.53
5/8 x 1	SC6NF	FP50SC6NF	41.81	31.36
3/4 x 1	SC7NF	FP50SC7NF	65.23	45.66



Shape - Oval				
Size (in.)	Burr No.	Order No.	Regular Price	SALE
3/8 x 5/8	SE3NF	FP50SE3NF	24.57	14.74
1/2 x 7/8	SE5NF	FP50SE5NF	41.20	24.72
5/8 x 1	SE6NF	FP50SE6NF	46.22	32.35
3/4 x 1	SE7NF	FP50SE7NF	60.62	42.43



Shape - Taper Shape Radius End				
Size (in.)	Burr No.	Order No.	Regular Price	SALE
1/4 x 3/4	SF1NF	FP50SF1NF	16.22	11.35
3/8 x 3/4	SF3NF	FP50SF3NF	23.95	14.37
1/2 x 1	SF5NF	FP50SF5NF	46.65	27.99
5/8 x 1	SF6NF	FP50SF6NF	43.21	30.25
3/4 x 1	SF7NF	FP50SF7NF	58.44	40.91



CT971

Prices Effective January 1, 2020 Thru March 31, 2020

RAPIDKUT Metric High Performance Spiral Flute Taps for Multi-Purpose

Steam Oxide or TiCN • Semi-Bottoming • Color Coded for Easy Identification

• DIN length ANSI shank

Black Ring - High Vanadium Steel

For multi-purpose use in a wide variety of materials such as:

- Low carbon steel (>HRC 16)
- Medium to high carbon steel (>HRC 23)
- Free machining stainless steel (< HRC 23) and heat/corrosion stainless steel (>HRC 24)
- Stainless steel castings (> 38HRC)
- Aluminum, aluminum alloys, cast iron, copper and brass

SAVE
40%



Size	Thread Limits	No. of Flutes	Shk. Dia. (in.)	Thread Length (in.)	OAL (in.)	Steam Oxide			TiCN		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
M3x0.5	D3	3	.141	.197	2.210	ER80BLK4003050	17.94	10.76	ER80BLK4003050T	22.25	13.35
M3.5x0.6	D4	3	.141	.276	2.210	ER80BLK4003560	17.94	10.76	ER80BLK4003560T	22.25	13.35
M4x0.7	D4	3	.168	.276	2.480	ER80BLK4004070	17.94	10.76	ER80BLK4004070T	22.25	13.35
M5x0.8	D4	3	.194	.354	2.760	ER80BLK4005080	17.94	10.76	ER80BLK4005080T	22.25	13.35
M6x1.0	D5	3	.255	.433	3.150	ER80BLK4006010	17.94	10.76	ER80BLK4006010T	22.25	13.35
M8x1.25	D5	3	.318	.472	3.540	ER80BLK4008125	27.76	16.66	ER80BLK4008125T	34.11	20.47
M10x1.25	D5	3	.381	.472	3.940	ER80BLK4010125	41.43	24.86	ER80BLK4010125T	49.74	29.84
M10x1.5	D6	3	.381	.512	3.940	ER80BLK4010150	41.43	24.86	ER80BLK4010150T	49.74	29.84
M12x1.25	D5	3	.367	.551	3.940	ER80BLK4012125	45.34	27.20	ER80BLK4012125T	56.12	33.67
M12x1.75	D6	3	.367	.591	4.330	ER80BLK4012175	45.34	27.20	ER80BLK4012175T	56.12	33.67
M14x1.5	D6	3	.429	.551	3.940	ER80BLK4014150	57.29	34.37	ER80BLK4014150T	66.00	39.60
M14x2.0	D7	3	.429	.709	4.330	ER80BLK4014200	57.29	34.37	ER80BLK4014200T	66.00	39.60
M16x1.5	D6	3	.480	.551	3.940	ER80BLK4016150	72.86	43.72	ER80BLK4016150T	86.53	51.92
M16x2.0	D7	3	.480	.709	4.330	ER80BLK4016200	72.86	43.72	ER80BLK4016200T	86.53	51.92
M18x1.5	D6	4	.542	.551	4.330	ER80BLK4018150	105.44	63.26	ER80BLK4018150T	119.50	71.70
M18x2.5	D7	4	.542	.787	4.920	ER80BLK4018250	105.44	63.26	ER80BLK4018250T	119.50	71.70

CT1117

RAPIDKUT High Performance Spiral Flute Taps for Multi-Purpose

Steam Oxide or TiCN • Semi-Bottoming • Color Coded for Easy Identification

• DIN length ANSI shank

Black Ring - High Vanadium Steel

For multi-purpose use in a wide variety of materials such as:

- Low carbon steel (>HRC 16)
- Medium to high carbon steel (>HRC 23)
- Free machining stainless steel (< HRC 23) and heat/corrosion stainless steel (>HRC 24)
- Stainless steel castings (> 38HRC)
- Aluminum, aluminum alloys, cast iron, copper and brass

SAVE
40%



Size	Thread Limits	No. of Flutes	Shk. Dia. (in.)	Thread Length (in.)	OAL (in.)	Steam Oxide			TiCN		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-40	H2	2	.141	.236	2.210	ER80BLK2000440	13.46	8.08	ER80BLK2000440T	15.75	9.45
5-40	H2	3	.141	.236	2.210	ER80BLK2000540	13.46	8.08	ER80BLK2000540T	15.75	9.45
6-32	H3	3	.141	.276	2.210	ER80BLK2000632	12.71	7.63	ER80BLK2000632T	15.35	9.21
8-32	H3	3	.168	.276	2.480	ER80BLK2000832	15.75	9.45	ER80BLK2000832T	19.03	11.42
10-24	H3	3	.194	.354	2.760	ER80BLK2001024	15.42	9.25	ER80BLK2001024T	18.88	11.33
10-32	H3	3	.194	.276	2.760	ER80BLK2001032	15.42	9.25	ER80BLK2001032T	18.88	11.33
12-24	H3	3	.220	.354	3.150	ER80BLK2001224	15.42	9.25	ER80BLK2001224T	18.88	11.33
12-28	H3	3	.220	.276	3.150	ER80BLK2001228	15.42	9.25	ER80BLK2001228T	18.88	11.33
1/4-20	H5	3	.255	.433	3.150	ER80BLK2001620	15.75	9.45	ER80BLK2001620T	19.00	11.40
1/4-28	H4	3	.255	.354	3.150	ER80BLK2001628	15.75	9.45	ER80BLK2001628T	19.00	11.40
5/16-18	H5	3	.318	.472	3.540	ER80BLK2002018	19.96	11.98	ER80BLK2002018T	25.26	15.16
5/16-24	H4	3	.318	.394	3.540	ER80BLK2002024	19.96	11.98	ER80BLK2002024T	25.26	15.16
3/8-16	H5	3	.381	.551	3.940	ER80BLK2002416	24.03	14.42	ER80BLK2002416T	29.08	17.45
3/8-24	H4	3	.381	.394	3.940	ER80BLK2002424	24.03	14.42	ER80BLK2002424T	29.08	17.45
7/16-14	H5	3	.323	.591	3.940	ER80BLK2002814	36.07	21.64	ER80BLK2002814T	43.57	26.14
7/16-20	H5	3	.323	.472	3.940	ER80BLK2002820	36.07	21.64	ER80BLK2002820T	43.57	26.14
1/2-13	H5	3	.367	.630	4.330	ER80BLK2003213	39.38	23.63	ER80BLK2003213T	48.05	28.83
1/2-20	H5	3	.367	.472	3.940	ER80BLK2003220	39.38	23.63	ER80BLK2003220T	48.05	28.83
9/16-12	H5	3	.429	.709	4.330	ER80BLK2003612	43.11	25.87	ER80BLK2003612T	50.91	30.55
9/16-18	H5	3	.429	.512	3.940	ER80BLK2003618	43.11	25.87	ER80BLK2003618T	50.91	30.55
5/8-11	H5	4	.480	.748	4.330	ER80BLK2004011	43.11	25.87	ER80BLK2004011T	50.91	30.55
5/8-18	H5	4	.480	.512	3.940	ER80BLK2004018	43.11	25.87	ER80BLK2004018T	50.91	30.55
3/4-10	H5	4	.590	.827	4.920	ER80BLK2004810	67.47	40.48	ER80BLK2004810T	77.68	46.61
3/4-16	H5	4	.590	.591	4.330	ER80BLK2004816	67.47	40.48	ER80BLK2004816T	77.68	46.61
7/8-9	H6	4	.697	.827	5.510	ER80BLK2005609	99.29	59.57	ER80BLK2005609T	114.20	68.52
7/8-14	H6	4	.697	.709	4.920	ER80BLK2005614	99.29	59.57	ER80BLK2005614T	114.20	68.52
1-8	H6	4	.800	.984	6.300	ER80BLK2010008	132.29	79.37	ER80BLK2010008T	150.78	90.47
1-12	H6	4	.800	.709	5.510	ER80BLK2010012	132.29	79.37	ER80BLK2010012T	150.78	90.47

CT1116



High Performance Spiral Pointed Taps for Multi-Purpose

Steam Oxide or TiCN • Plug Style • Color Coded for Easy Identification

• DIN length ANSI shank

Black Ring - High Vanadium Steel

For multi-purpose use in a wide variety of materials such as:

- Low carbon steel (>HRC 16)
- Medium to high carbon steel (>HRC 23)
- Free machining stainless steel (< HRC 23) and heat/corrosion stainless steel (>HRC 24)
- Stainless steel castings (> 38HRC)
- Aluminum, aluminum alloys, cast iron, copper and brass

SAVE
40%



Size	Thread Limits	Shk. Dia. (in.)	Thread Length (in.)	OAL (in.)	Steam Oxide			TiCN		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-40	H2	.141	.335	2.210	ER80BLK1000440	8.73	5.24	ER80BLK1000440T	10.21	6.13
5-40	H2	.141	.374	2.210	ER80BLK1000540	8.73	5.24	ER80BLK1000540T	10.21	6.13
6-32	H3	.141	.413	2.210	ER80BLK1000632	9.03	5.42	ER80BLK1000632T	11.05	6.63
8-32	H3	.168	.453	2.480	ER80BLK1000832	9.03	5.42	ER80BLK1000832T	11.05	6.63
10-24	H3	.194	.531	2.760	ER80BLK1001024	9.03	5.42	ER80BLK1001024T	11.05	6.63
10-32	H3	.194	.531	2.760	ER80BLK1001032	9.03	5.42	ER80BLK1001032T	11.05	6.63
12-24	H3	.220	.571	3.150	ER80BLK1001224	10.39	6.23	ER80BLK1001224T	12.74	7.64
12-28	H3	.220	.571	3.150	ER80BLK1001228	10.39	6.23	ER80BLK1001228T	12.74	7.64
1/4-20	H5	.255	.591	3.150	ER80BLK1001620	10.39	6.23	ER80BLK1001620T	12.74	7.64
1/4-28	H4	.255	.591	3.150	ER80BLK1001628	10.39	6.23	ER80BLK1001628T	12.74	7.64
5/16-18	H5	.318	.669	3.540	ER80BLK1002018	13.07	7.84	ER80BLK1002018T	16.53	9.92
5/16-24	H4	.318	.669	3.540	ER80BLK1002024	13.07	7.84	ER80BLK1002024T	16.53	9.92
3/8-16	H5	.381	.748	3.940	ER80BLK1002416	13.34	8.00	ER80BLK1002416T	16.86	10.12
3/8-24	H4	.381	.748	3.940	ER80BLK1002424	13.34	8.00	ER80BLK1002424T	16.86	10.12
7/16-14	H5	.323	.866	3.940	ER80BLK1002814	21.29	12.77	ER80BLK1002814T	26.04	15.62
7/16-20	H5	.323	.866	3.940	ER80BLK1002820	21.29	12.77	ER80BLK1002820T	26.04	15.62
1/2-13	H5	.367	.984	4.330	ER80BLK1003213	24.03	14.42	ER80BLK1003213T	29.32	17.59
1/2-20	H5	.367	.984	3.940	ER80BLK1003220	24.03	14.42	ER80BLK1003220T	29.32	17.59
9/16-12	H5	.429	.984	4.330	ER80BLK1003612	24.75	14.85	ER80BLK1003612T	30.20	18.12
9/16-18	H5	.429	.984	3.940	ER80BLK1003618	24.75	14.85	ER80BLK1003618T	30.20	18.12
5/8-11	H5	.480	1.083	4.330	ER80BLK1004011	24.75	14.85	ER80BLK1004011T	30.20	18.12
5/8-18	H5	.480	1.083	3.940	ER80BLK1004018	24.75	14.85	ER80BLK1004018T	30.20	18.12
3/4-10	H5	.590	1.201	4.920	ER80BLK1004810	34.95	20.97	ER80BLK1004810T	40.25	24.15
3/4-16	H5	.590	1.201	4.330	ER80BLK1004816	34.95	20.97	ER80BLK1004816T	40.25	24.15
7/8-9	H6	.697	1.339	5.510	ER80BLK1005609	75.72	45.43	ER80BLK1005609T	87.07	52.24
7/8-14	H6	.697	1.339	4.920	ER80BLK1005614	75.72	45.43	ER80BLK1005614T	87.07	52.24
1-8	H6	.800	1.496	6.300	ER80BLK1010008	102.64	61.58	ER80BLK1010008T	116.97	70.18
1-12	H6	.800	1.496	5.510	ER80BLK1010012	102.64	61.58	ER80BLK1010012T	116.97	70.18

CT1115



Metric High Performance Spiral Pointed Taps for Multi-Purpose

Steam Oxide or TiCN • Plug Style • Color Coded for Easy Identification

• DIN length ANSI shank

Black Ring - High Vanadium Steel

For multi-purpose use in a wide variety of materials such as:

- Low carbon steel (>HRC 16)
- Medium to high carbon steel (>HRC 23)
- Free machining stainless steel (< HRC 23) and heat/corrosion stainless steel (>HRC 24)
- Stainless steel castings (> 38HRC)
- Aluminum, aluminum alloys, cast iron, copper and brass

SAVE
40%



Size	Thread Limits	No. of Flutes	Shk. Dia. (in.)	Thread Length (in.)	OAL (in.)	Steam Oxide			TiCN		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
M3x0.5	D3	3	.141	.374	2.210	ER80BLK3003050	14.42	8.65	ER80BLK3003050T	17.07	10.24
M3.5x0.6	D4	3	.141	.413	2.210	ER80BLK3003560	10.39	6.23	ER80BLK3003560T	12.62	7.57
M4x0.7	D4	3	.168	.453	2.480	ER80BLK3004070	10.39	6.23	ER80BLK3004070T	12.62	7.57
M5x0.8	D4	3	.194	.531	2.760	ER80BLK3005080	12.10	7.26	ER80BLK3005080T	15.02	9.01
M6x1.0	D5	3	.255	.591	3.150	ER80BLK3006010	12.10	7.26	ER80BLK3006010T	15.02	9.01
M8x1.25	D5	3	.318	.669	3.540	ER80BLK3008125	15.35	9.21	ER80BLK3008125T	18.88	11.33
M10x1.25	D5	3	.381	.748	3.940	ER80BLK3010125	24.45	14.67	ER80BLK3010125T	29.35	17.61
M10x1.5	D6	3	.381	.748	3.940	ER80BLK3010150	24.45	14.67	ER80BLK3010150T	29.35	17.61
M12x1.25	D5	3	.367	.984	3.940	-	-	-	ER80BLK3012125T	34.32	20.59
M12x1.25	D5	3	.367	.984	4.330	ER80BLK3012125	27.73	16.64	-	-	-
M12x1.75	D6	3	.367	.984	3.940	ER80BLK3012175	27.73	16.64	ER80BLK3012175T	34.32	20.59
M14x1.5	D6	3	.429	.984	3.940	ER80BLK3014150	41.49	24.89	ER80BLK3014150T	47.78	28.67
M14x2.0	D7	3	.429	.984	3.940	ER80BLK3014200	41.49	24.89	ER80BLK3014200T	47.78	28.67
M16x1.5	D6	3	.480	1.083	3.940	ER80BLK3016150	48.86	29.32	ER80BLK3016150T	58.05	34.83
M16x2.0	D7	3	.480	1.083	3.940	ER80BLK3016200	48.86	29.32	ER80BLK3016200T	58.05	34.83
M18x1.5	D6	3	.542	1.083	3.940	ER80BLK3018150	60.00	36.00	ER80BLK3018150T	68.01	40.81
M18x2.5	D7	3	.542	1.083	3.940	ER80BLK3018250	60.00	36.00	ER80BLK3018250T	68.01	40.81

CT1118

Prices Effective January 1, 2020 Thru March 31, 2020

CUTTING TOOLS

PRO-CUT 1/2" Shank Silver & Deming Drills

- 118° Standard point
- Cobalt heavy duty
- 3" Flute length
- 6" Overall length

SAVE
45%



Size (in.)	Order No.	Regular Price	SALE
17/32	AK70034	19.30	10.62
9/16	AK70036	20.50	11.28
19/32	AK70038	31.58	17.37
5/8	AK70040	23.05	12.68
21/32	AK70042	24.65	13.56
11/16	AK70044	25.60	14.08
23/32	AK70046	27.10	14.91
3/4	AK70048	28.20	15.51
25/32	AK70050	29.70	16.34
13/16	AK70052	31.20	17.16
27/32	AK70054	32.60	17.93
7/8	AK70056	33.80	18.59
29/32	AK70058	35.35	21.21
15/16	AK70060	37.80	20.79
31/32	AK70062	57.68	31.72
1	AK70100	44.05	24.23
1-1/16	AK70104	51.65	28.41
1-1/8	AK70108	58.55	32.20
1-1/4	AK70116	71.35	39.24

CT649

HY-PRO® CARB Drills

List #HP245 • 5xD Length

- High performance carbide drill
- OSG's WD1 coating
- Recommended for cast iron, carbon steels, alloy steels, die steels and hardened steels up to 35 Hrc



Size	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Regular Price	SALE
1/8	.1248	6mm	28mm	66mm	TP45HP2451248	38.00	34.20
3/16	.1874	6mm	44mm	82mm	TP45HP2451874	45.14	40.63
1/4	.2500	8mm	53mm	91mm	TP45HP2452500	52.53	47.28
9/32	.2811	8mm	53mm	91mm	TP45HP2452811	60.95	54.86
5/16	.3126	8mm	53mm	91mm	TP45HP2453126	64.94	58.45
11/32	.3437	10mm	61mm	103mm	TP45HP2453437	78.14	70.33
3/8	.3748	10mm	61mm	103mm	TP45HP2453748	89.00	80.10
13/32	.4063	12mm	71mm	118mm	TP45HP2454063	108.01	97.21
7/16	.4374	12mm	71mm	118mm	TP45HP2454374	119.82	107.84
1/2	.5000	14mm	77mm	124mm	TP45HP2455000	138.85	124.97
17/32	.5311	14mm	77mm	124mm	TP45HP2455311	149.23	134.31

CT742

Precision Straight Shank Drills — 8" Overall Length

- For general purpose drilling in applications where extra reach is required
- Other sizes and lengths available
- Precision Twist List #0860



PRO-CUT Extra Long Straight Shank Drills

8" Through 18" • High Speed Steel

- For general purpose drilling in applications where extra reach is required

—RAPIDKUT— 5xD High Performance Solid Carbide Coolant Thru Drills

Metric Sizes

SAVE
25%

MADE IN THE
USA

- 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 (mm)	Shank Dia. (mm)	Flute Length (mm)	OAL (mm)	Order No.	Regular Price	SALE
3mm	6mm	28mm	66mm	AX8181005	44.14	33.11
3.5mm	6mm	28mm	66mm	AX8181010	44.61	33.46
4mm	6mm	36mm	74mm	AX8181015	50.07	37.55
4.5mm	6mm	36mm	74mm	AX8181020	64.50	48.38
5mm	6mm	44mm	82mm	AX8181025	71.30	53.48
5.5mm	6mm	44mm	82mm	AX8181030	74.22	55.67
6mm	6mm	44mm	82mm	AX8181035	74.22	55.67
6.5mm	8mm	53mm	91mm	AX8181040	85.78	64.34
7mm	8mm	53mm	91mm	AX8181045	85.78	64.34
7.5mm	8mm	53mm	91mm	AX8181050	83.27	62.45
8mm	8mm	53mm	91mm	AX8181055	85.78	64.34
8.5mm	10mm	61mm	103mm	AX8181060	99.96	74.97
9mm	10mm	61mm	103mm	AX8181065	99.96	74.97
9.5mm	10mm	61mm	103mm	AX8181070	99.96	74.97
10mm	10mm	61mm	103mm	AX8181075	99.96	74.97
10.5mm	12mm	71mm	118mm	AX8181080	141.67	106.25
11mm	12mm	71mm	118mm	AX8181085	141.67	106.25
11.5mm	12mm	71mm	118mm	AX8181090	141.67	106.25
12mm	12mm	71mm	118mm	AX8181095	141.67	106.25
12.5mm	14mm	77mm	124mm	AX8181100	186.35	139.76
13mm	14mm	77mm	124mm	AX8181105	186.35	139.76
13.5mm	14mm	77mm	124mm	AX8181110	186.35	139.76
14mm	14mm	77mm	124mm	AX8181115	186.35	139.76
14.5mm	16mm	83mm	133mm	AX8181120	226.34	169.76
15mm	16mm	83mm	133mm	AX8181125	226.34	169.76
15.5mm	16mm	83mm	133mm	AX8181130	226.34	169.76
16mm	16mm	83mm	133mm	AX8181135	226.34	169.76
16.5mm	18mm	93mm	143mm	AX8181140	359.87	269.90
17mm	18mm	93mm	143mm	AX8181145	359.87	269.90
17.5mm	18mm	93mm	143mm	AX8181150	359.87	269.90
18mm	18mm	93mm	143mm	AX8181155	359.87	269.90
20mm	20mm	101mm	153mm	AX8181160	396.44	297.33

CT845

Size (in.)	Decimal Equivalent	Order No.	Regular Price	SALE
1/8	.1250	PT2357408	24.45	11.00
5/32	.1562	PT2357410	26.90	12.11
3/16	.1875	PT2357412	27.75	12.49
7/32	.2190	PT2357414	30.00	13.50
1/4	.2500	PT2357416	30.85	13.88
9/32	.2812	PT2357418	32.40	14.58
5/16	.3125	PT2357420	33.25	14.96
11/32	.3438	PT2357422	35.10	15.80
3/8	.3750	PT2357424	35.70	16.07
13/32	.4062	PT2357426	40.45	18.20
7/16	.4375	PT2357428	42.85	19.28
15/32	.4688	PT2357430	47.85	21.53
1/2	.5000	PT2357432	48.00	21.60

CT968

Size (in.)	8			10			12			18		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8	AM50008	8.90	4.45	AM51008	11.50	5.75	AM52008	11.58	5.79	AM53008	35.16	17.58
9/64	AM50009	9.02	4.51	AM51009	9.98	4.99	AM52009	11.58	5.79	-	-	-
5/32	AM50010	9.02	4.51	AM51010	9.98	4.99	AM52010	11.58	5.79	AM53010	35.16	17.58
11/64	AM50011	9.91	4.96	AM51011	11.12	5.56	AM52011	11.58	5.79	-	-	-
3/16	AM50012	9.91	4.96	AM51012	11.12	5.56	AM52012	11.58	5.79	AM53012	26.64	13.32
13/64	AM50013	9.91	4.96	AM51013	11.12	5.56	AM52013	11.58	5.79	AM53013	26.64	13.32
7/32	AM50014	9.91	4.96	AM51014	11.12	5.56	AM52014	11.58	5.79	AM53014	24.82	12.41
1/4	AM50016	10.04	5.02	AM51016	11.38	5.69	AM52016	11.58	5.79	AM53016	26.20	13.10
9/32	AM50018	11.12	5.56	AM51018	12.46	6.23	AM52018	13.23	6.62	AM53018	27.32	13.66
5/16	AM50020	11.38	5.69	AM51020	13.15	6.58	AM52020	13.54	6.77	AM53020	27.35	13.68
11/32	AM50022	12.71	6.36	AM51022	14.36	7.18	AM52022	15.25	7.63	AM53022	27.32	13.66
3/8	AM50024	13.34	6.67	AM51024	14.87	7.44	AM52024	15.87	7.94	AM53024	27.32	13.66
13/32	AM50026	14.40	7.20	AM51026	16.27	8.14	AM52026	17.15	8.58	AM53026	29.83	14.92
7/16	AM50028	14.87	7.44	AM51028	16.46	8.23	AM52028	17.64	8.82	AM53028	30.98	15.49
15/32	AM50030	16.97	8.49	AM51030	18.87	9.44	AM52030	19.91	9.96	AM53030	36.82	18.41
1/2	AM50032	17.22	8.61	AM51032	19.38	9.69	AM52032	24.82	12.41	AM53032	40.13	20.07

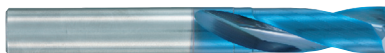
CT645

NACHI AQUA Drill EX Flat

Stub Length & Non-Coolant Thru

List No. L9611 • Solid Carbide

- One step drilling with minimum burrs
- 20° Helix
- AQUA EX coated
- True 180° flat point



SAVE
55%

Drill Dia. (in.)	Dec. Equiv.	Shank Dia.	LOC	OAL	Order No.	Regular Price	SALE
1/8	.1250	6mm	15mm	50mm	AC861455595	151.80	68.31
5/32	.1562	6mm	18mm	50mm	AC861455600	151.80	68.31
9/32	.2183	6mm	33mm	70mm	AC861455646	255.49	114.97
7/32	.2188	6mm	25mm	60mm	AC861455623	186.99	84.15
1/4	.2500	6mm	30mm	70mm	AC861455630	231.93	104.37
5/16	.3125	6mm	36mm	70mm	AC861455652	255.49	114.97
21/64	.3281	8mm	39mm	80mm	AC861455669	282.58	127.16
23/64	.3594	8mm	42mm	80mm	AC861455675	315.49	141.97
3/8	.3750	8mm	43mm	80mm	AC861455681	314.92	141.71
13/32	.4062	10mm	48mm	90mm	AC861455698	355.65	160.04
7/16	.4375	10mm	51mm	90mm	AC861455703	378.74	170.43
29/64	.4531	10mm	52mm	90mm	AC861455710	389.55	175.30
15/32	.4688	10mm	54mm	90mm	AC861455726	389.97	175.49
1/2	.5000	12mm	58mm	100mm	AC861455732	516.85	232.58
9/16	.5625	12mm	64mm	105mm	AC861455749	634.72	285.62
5/8	.6250	12mm	72mm	115mm	AC861455755	905.95	407.68
11/16	.6875	16mm	79mm	125mm	AC861455761	931.20	419.04
3/4	.7500	16mm	87mm	135mm	AC861455778	981.19	441.54

CT1035

Precision Heavy Duty Cobalt Screw Machine Drills

Cobalt • 135° Split Point

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



SAVE
55%

Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Regular Price	SALE
1/16	5/8	1-5/8	PT1840304	3.63	1.63
5/64	11/16	1-11/16	PT1840305	3.65	1.64
3/32	3/4	1-3/4	PT1840306	3.63	1.63
7/64	13/16	1-13/16	PT1840307	4.12	1.85
1/8	7/8	1-7/8	PT1840308	4.71	2.12
9/64	15/16	1-15/16	PT1840309	4.77	2.15
5/32	1	2-1/16	PT1840310	5.18	2.33
11/64	1-1/16	2-1/8	PT1840311	5.87	2.64
3/16	1-1/8	2-3/16	PT1840312	6.88	3.10
13/64	1-3/16	2-1/4	PT1840313	7.85	3.53
7/32	1-1/4	2-3/8	PT1840314	8.65	3.89
15/64	1-5/16	2-7/16	PT1840315	9.59	4.32
1/4	1-3/8	2-1/2	PT1840316	9.61	4.32
17/64	1-7/16	2-5/8	PT1840317	11.30	5.09
9/32	1-1/2	2-11/16	PT1840318	11.95	5.38
5/16	1-5/8	2-13/16	PT1840320	14.90	6.71
3/8	1-13/16	3-1/8	PT1840324	20.60	9.27
13/32	1-15/16	3-5/16	PT1840326	24.30	10.94
1/2	2-1/4	3-3/4	PT1840332	33.05	14.87

CT943

Cyclone™ XD Solid Carbide HP Coolant Thru Drills

5xD • Double Margin • Uncoated

- 30° Helix
- 140° / 142° Drill Point
- Designed for drilling in a broad range of materials
- M.A. Ford List #CDACR



Drill Dia.	Decimal	Shank Dia.	Flute Length	OAL	Order No.	Regular Price	SALE
#31	.1200	6mm	1.102	2.600	AX2807301	74.82	67.34
1/8	.1250	6mm	1.102	2.600	AX2807303	74.82	67.34
#30	.1285	6mm	1.102	2.600	AX2807305	74.82	67.34
#29	.1360	6mm	1.102	2.600	AX2807308	74.82	67.34
9/64	.1406	6mm	1.102	2.600	AX2807310	74.82	67.34
#27	.1440	6mm	1.102	2.600	AX2807312	74.82	67.34
#26	.1470	6mm	1.102	2.600	AX2807314	74.82	67.34
#25	.1495	6mm	1.417	2.910	AX2807315	74.82	67.34
#24	.1520	6mm	1.417	2.910	AX2807317	74.82	67.34
5/32	.1562	6mm	1.417	2.910	AX2807319	74.82	67.34
#21	.1590	6mm	1.417	2.910	AX2807321	74.75	67.28
#20	.1610	6mm	1.417	2.910	AX2807322	74.75	67.28
#19	.1660	6mm	1.417	2.910	AX2807325	74.75	67.28
11/64	.1719	6mm	1.417	2.910	AX2807327	74.75	67.28
#17	.1730	6mm	1.417	2.910	AX2807328	74.75	67.28
#16	.1770	6mm	1.417	2.910	AX2807330	74.75	67.28
3/16	.1875	6mm	1.732	3.230	AX2807334	74.75	67.28
#11	.1910	6mm	1.732	3.230	AX2807337	74.75	67.28
#10	.1935	6mm	1.732	3.230	AX2807339	74.75	67.28
13/64	.2031	6mm	1.732	3.230	AX2807342	77.41	69.67
7/32	.2187	6mm	1.732	3.230	AX2807347	77.41	69.67
A	.2340	6mm	1.732	3.230	AX2807352	77.41	69.67
1/4	.2500	8mm	2.087	3.580	AX2807357	100.52	90.47
F	.2570	8mm	2.087	3.580	AX2807360	100.52	90.47
17/64	.2656	8mm	2.087	3.580	AX2807362	100.52	90.47
I	.2720	8mm	2.087	3.580	AX2807365	100.52	90.47
9/32	.2812	8mm	2.087	3.580	AX2807367	100.52	90.47
19/64	.2969	8mm	2.087	3.580	AX2807372	100.52	90.47
5/16	.3125	8mm	2.087	3.580	AX2807374	100.52	90.47
21/64	.3281	10mm	2.402	4.060	AX2807377	136.13	122.52
Q	.3320	10mm	2.402	4.060	AX2807379	136.13	122.52
11/32	.3438	10mm	2.402	4.060	AX2807381	136.13	122.52
23/64	.3594	10mm	2.402	4.060	AX2807383	136.13	122.52
U	.3680	10mm	2.402	4.060	AX2807384	136.13	122.52
3/8	.3750	10mm	2.402	4.060	AX2807386	136.13	122.52
25/64	.3906	10mm	2.795	4.650	AX2807388	136.13	122.52
13/32	.4062	12mm	2.795	4.650	AX2807391	189.98	170.98
27/64	.4219	12mm	2.795	4.650	AX2807395	189.98	170.98
7/16	.4375	12mm	2.795	4.650	AX2807397	189.98	170.98
29/64	.4531	12mm	2.795	4.650	AX2807399	189.98	170.98
15/32	.4688	12mm	2.795	4.650	AX2807400	189.98	170.98
31/64	.4844	14mm	3.031	4.880	AX2807402	263.68	237.31
1/2	.5000	14mm	3.031	4.880	AX2807404	263.68	237.31

CT1142



Coolant Thru High Performance Drills Solid Carbide • 30xD Length

- 135° Point
- 15° Helix
- ZRCN coated
- Triple guided margin
- Ideal for aluminum, cast materials and non-ferrous materials
- PCT Cutters List #AXC

SAVE
25%

Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Regular Price	SALE
1/8	6mm	105mm	150mm	CW8147865	566.38	424.79
9/64	6mm	135mm	185mm	CW8147885	587.56	440.67
5/32	6mm	135mm	185mm	CW8147895	587.56	440.67
11/64	6mm	165mm	215mm	CW8147910	600.07	450.05

Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Regular Price	SALE
3/16	6mm	165mm	215mm	CW8147920	600.07	450.05
13/64	6mm	180mm	230mm	CW8147930	631.30	473.48
7/32	6mm	180mm	230mm	CW8147940	631.30	473.48
15/64	6mm	180mm	230mm	CW8147950	631.30	473.48
1/4	8mm	215mm	280mm	CW8147960	752.15	564.11
17/64	8mm	230mm	280mm	CW8147970	752.15	564.11
9/32	8mm	230mm	280mm	CW8147985	831.47	623.60
19/64	8mm	265mm	315mm	CW8147995	831.47	623.60
5/16	8mm	265mm	315mm	CW8148005	831.47	623.60
11/32	10mm	330mm	380mm	CW8148025	887.59	665.69
3/8	10mm	330mm	380mm	CW8148045	887.59	665.69

CT1163

Prices Effective January 1, 2020 Thru March 31, 2020

PRM^{PRO} Spotting Blue-H2O

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

MADE IN THE
USA

NEW

Alternative
Option
CANODE
BLUE



Size	Order No.	Regular Price	SALE
2 oz	PR0310000	9.20	6.00
8 oz	PR0310010	14.00	9.10
16 oz	PR0310020	34.38	22.35
1 Qt	PR0310030	65.00	42.25
1 Gallon	PR0310040	235.00	152.75

FL429

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



Size	Order No.	Regular Price	SALE
1 Pint	LJ6040320	13.83	11.05
1 Gallon	LJ6040330	79.88	63.90
5 Gallon	LJ6040340	322.36	257.90

FL197

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



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

Accu-Lube Paste

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



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

Size	Order No.	Regular Price	SALE
2.02 oz Push-up Stick	LK6079042	6.07	5.15
8 oz	LK6079030	12.80	10.90
13 oz Tube	LK6079045	17.37	14.75
1 Gallon	LK60LB3000	57.94	49.25
1 Gallon	LK60LB2000	89.49	76.05

FL304

Odor Control Tablets

MADE IN THE
USA

- 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

Master Fluid Solutions TRIM[®] MicroSol[®] 685

—Cutting Edge Metalworking Solutions—

High Lubricity Semi-Synthetic Metalworking Fluid

- Excellent alternative to chlorinated soluble oils
- Reduces oil mist and residues often associated with high-lubricity alternatives
- Contains no nitrites, triazines, phenols, or sulfurized EP additives
- Provides superior corrosion inhibition on all ferrous and nonferrous metals
- Forms stable micro-emulsion in hard water environments
- Used with aluminum, magnesium and copper alloys, cast iron, steels, stainless steels, and many plastics and composites
- Keeps machines very clean for reduced maintenance
- Has exceptional sump life without the use of tank side additives
- Requires no special disposal or recycling techniques



Container Size	Order No.	Regular Price	SALE
1 Gallon	MS656320	49.43	42.00
5 Gallon	MS656325	207.47	186.70
54 Gallon	MS656330	1881.51	1749.80

† All 54 Gallon Drums FOB Factory

FL425

LOCTITE[®] 243 Blue Threadlocker

MADE IN THE
USA

Oil Resistant/Medium Strength

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



Size	Container	Color	Strength	Order No.	Regular Price	SALE
10ml	Bottle	Blue	Medium-Primerless	LM501329837	18.67	14.95
50ml	Bottle	Blue	Medium-Primerless	LM501329467	51.94	41.55
250ml	Bottle	Blue	Medium-Primerless	LM501329505	180.44	144.35

FL360

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



Order No.	Regular Price	SALE
NY40LH300	240.72	204.60

FL162

CRC[®] Syntha-Tech[™] Lubricant

MADE IN THE
USA

- 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
16 oz	LR5003054	15.73	13.35

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

SAVE
25%



Color	Order No.	Regular Price	SALE
Aluminum	LP4001760	7.25	5.45
Cherry Red	LP4001101	7.25	5.45
Machinery Dark Gray	LP4000325	7.25	5.45
Max Flat Black	LP4003727	7.25	5.45
Medium Gray	LP4001615	7.25	5.45
OSHA Black	LP4001770	7.25	5.45
OSHA Blue	LP4001510	7.25	5.45
OSHA Orange	LP4001210	7.25	5.45
OSHA Red	LP4001110	7.25	5.45
OSHA White	LP4001800	7.25	5.45
OSHA Yellow	LP4001310	7.25	5.45

FL002

Mobil Mobilgrease Lubricating Grease XHP 222

NLGI Grade - 2, Thickener Type Li-Complex

MADE IN THE
USA

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



Size	Order No.	Regular Price	SALE
13.7 oz	LK45121929	4.71	3.95
35 lb	LK45XHP22235	178.84	151.00

FL263

Markal® PRO-LINE® HP Liquid Paint Marker for Oily Surfaces

- Unique paint formula resists spreading and dries quickly through oily surfaces to leave precise, permanent marks
- Durable metal barrel and nib reduce breakage for longer marking life.
- Xylene-free paint reduces user health risks

MADE IN THE
USA

SAVE
20%



Color	Order No.	Regular Price	SALE
White	LH5296960	3.10	2.50
Yellow	LH5296961	3.10	2.50
Red	LH5296962	3.10	2.50
Black	LH5296963	3.10	2.50
Orange	LH5296964	3.10	2.50
Blue	LH5296965	3.10	2.50
Green	LH5296966	3.10	2.50
Silver	LH5296967	3.17	2.55

FL265

FLUIDS

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

MADE IN THE
USA

- 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	20.78	16.60



FL256

CROWN Cutting Oil

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

Size	Order No.	Regular Price	SALE
10.5 oz	LP507020	7.23	5.80



FL402

JB WaterWeld™ Epoxy Putty

- Will plug or seal leaks and patch holes
- Ideal for repairing plumbing, fuel tanks, and potable water tanks, setup occurs even under water
- It can be drilled tapped, filed, sanded and painted
- Set time of 15 to 25 minutes and sets hard in 1 hour
- Cures to off-white color
- Tensile strength of 900 PSI and will withstand temperatures up to 300°F

Order No.	Regular Price	SALE
LM508277	9.61	5.75



FL422

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	13.47	10.80
1 Gallon	LJ6002128	55.16	44.15

FL212

WD-40 Lubricant

MADE IN THE
USA

- 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



Size	Order No.	Regular Price	SALE
8 oz Smart Straw	LS5149002	7.37	5.55
11 oz Smart Straw	LS5149004	9.37	7.05
12 oz Smart Straw	LS5149005	9.95	7.45
16 oz	LS5149008	9.66	7.25
1 Gallon	LS5149011	34.45	25.85
5 Gallon	LS5149012	161.28	120.95

FL155



Resin Fiber Discs

EAO- SurfPro EAO is Aluminum Oxide Grain Resin Fiber Discs provide overall economy and performance in an all purpose resin fiber disc.

AOC- SurfPro AOC is a resin fiber disc for premium Metal, developed especially for use on stainless steel and other alloys. Heat treated blue fired ceramically coated aluminum oxide and ceramic grain with custom blended grinding aid provides anti glazing, anti loading and cool grinding. Works on high tensile alloys like stainless steel 300 series, carbon steel, and titanium. These discs provide maximum productivity at reduced cost.

SGZ- SurfPro SGZ is a unique blend of SG Ceramic grain and Zirconia grain providing optimum value for grinding and finishing on a wide range of metals widely used in the Aerospace and Automotive Industries.

CGT- SurfPro CGT is a 100% premium SG Ceramic Grain, Resin Fiber Disc with top coat (grinding aid) that provides cool cutting and long life. Developed for tough industrial metal applications on stainless steel and other high tensile alloys when high productivity is required.

PSC- SurfPro PSC high quality silicon carbide resin fiber discs are designed for non-metallic grinding applications on materials such as stone, terrazzo, marble, fiberglass and plastic. Premium Silicon Carbide grit provides fast cutting action with no loading or glazing. Also, the clean bonding system promotes a safer and healthier working environment.

SMF- SurfPro SMF is a Soft Metal Discs designed for soft metals like bronze, brass and aluminum. These discs contain a lubrication which minimizing heat build up on the metal work surface. Lower work surface temperatures allow the disc to cut faster and last longer than regular discs. The reduced disc wear results in less costly changeover time and increased productivity.

Application							
Stainless Steel, Titanium & Super Alloys	Mild Carbon Steel, Cold Rolled Steel	Brass, Bronze, Aluminum & Non-Ferrous Metals	Wood & Sheetrock/ Drywall	Concrete, Stone, Granite, Marble & Ceramic Tile	Fiberglass & Composites	Cast Iron	
	✓	✓	✓				
✓	✓						✓
✓	✓						✓
✓	✓						
				✓	✓		✓
		✓			✓		

SURF PRO EAO- Premium Aluminum Oxide Resin Fiber Discs



Size (in.)	Grit	Order No.	SALE
4-1/2 x 7/8	16	SP11RF457016EAO	0.71
4-1/2 x 7/8	24	SP11RF457024EAO	0.67
4-1/2 x 7/8	36	SP11RF457036EAO	0.62
4-1/2 x 7/8	50	SP11RF457050EAO	0.61
4-1/2 x 7/8	60	SP11RF457060EAO	0.58
4-1/2 x 7/8	80	SP11RF457080EAO	0.57
4-1/2 x 7/8	100	SP11RF457100EAO	0.56
4-1/2 x 7/8	120	SP11RF457120EAO	0.56
5 x 7/8	16	SP11RF057016EAO	0.84
5 x 7/8	24	SP11RF057024EAO	0.78
5 x 7/8	36	SP11RF057036EAO	0.75
5 x 7/8	50	SP11RF057050EAO	0.71

Size (in.)	Grit	Order No.	SALE
5 x 7/8	60	SP11RF057060EAO	0.68
5 x 7/8	80	SP11RF057080EAO	0.66
5 x 7/8	100	SP11RF057100EAO	0.66
5 x 7/8	120	SP11RF057120EAO	0.66
7 x 7/8	16	SP11RF077016EAO	1.49
7 x 7/8	24	SP11RF077024EAO	1.39
7 x 7/8	36	SP11RF077036EAO	1.29
7 x 7/8	50	SP11RF077050EAO	1.26
7 x 7/8	60	SP11RF077060EAO	1.20
7 x 7/8	80	SP11RF077080EAO	1.16
7 x 7/8	100	SP11RF077100EAO	1.14
7 x 7/8	120	SP11RF077120EAO	1.14

SURF PRO CGT- 100% SG Ceramic Resin Fiber Discs



Size (in.)	Grit	Order No.	SALE
4-1/2 x 7/8	16	SP11RF457016CGT	1.93
4-1/2 x 7/8	24	SP11RF457024CGT	1.75
4-1/2 x 7/8	36	SP11RF457036CGT	1.57
4-1/2 x 7/8	50	SP11RF457050CGT	1.40
4-1/2 x 7/8	60	SP11RF457060CGT	1.22
4-1/2 x 7/8	80	SP11RF457080CGT	1.13
4-1/2 x 7/8	100	SP11RF457100CGT	1.03
4-1/2 x 7/8	120	SP11RF457120CGT	0.88
5 x 7/8	16	SP11RF057016CGT	2.34
5 x 7/8	24	SP11RF057024CGT	2.13
5 x 7/8	36	SP11RF057036CGT	2.11
5 x 7/8	50	SP11RF057050CGT	1.70

Size (in.)	Grit	Order No.	SALE
5 x 7/8	60	SP11RF057060CGT	1.47
5 x 7/8	80	SP11RF057080CGT	1.35
5 x 7/8	100	SP11RF057100CGT	1.24
5 x 7/8	120	SP11RF057120CGT	1.04
7 x 7/8	16	SP11RF077016CGT	4.41
7 x 7/8	24	SP11RF077024CGT	4.01
7 x 7/8	36	SP11RF077036CGT	4.44
7 x 7/8	50	SP11RF077050CGT	3.16
7 x 7/8	60	SP11RF077060CGT	2.72
7 x 7/8	80	SP11RF077080CGT	2.49
7 x 7/8	100	SP11RF077100CGT	2.27
7 x 7/8	120	SP11RF077120CGT	1.89

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



Size (in.)	Grit	Order No.	SALE
4-1/2 x 7/8	16	SP11RF457016AOC	1.37
4-1/2 x 7/8	24	SP11RF457024AOC	1.25
4-1/2 x 7/8	36	SP11RF457036AOC	1.15
4-1/2 x 7/8	50	SP11RF457050AOC	1.02
4-1/2 x 7/8	60	SP11RF457060AOC	1.02
4-1/2 x 7/8	80	SP11RF457080AOC	0.90
4-1/2 x 7/8	100	SP11RF457100AOC	0.86
4-1/2 x 7/8	120	SP11RF457120AOC	0.81
5 x 7/8	16	SP11RF057016AOC	1.63
5 x 7/8	24	SP11RF057024AOC	1.48
5 x 7/8	36	SP11RF057036AOC	1.38
5 x 7/8	50	SP11RF057050AOC	1.21

Size (in.)	Grit	Order No.	SALE
5 x 7/8	60	SP11RF057060AOC	1.21
5 x 7/8	80	SP11RF057080AOC	1.06
5 x 7/8	100	SP11RF057100AOC	1.01
5 x 7/8	120	SP11RF057120AOC	0.96
7 x 7/8	16	SP11RF077016AOC	3.14
7 x 7/8	24	SP11RF077024AOC	2.73
7 x 7/8	36	SP11RF077036AOC	2.52
7 x 7/8	50	SP11RF077050AOC	2.20
7 x 7/8	60	SP11RF077060AOC	2.19
7 x 7/8	80	SP11RF077080AOC	1.90
7 x 7/8	100	SP11RF077100AOC	1.81
7 x 7/8	120	SP11RF077120AOC	1.70

SURF PRO PSC- Silicon Carbide Resin Fiber Discs



Size (in.)	Grit	Order No.	SALE
4-1/2 x 7/8	16	SP11RF457016PSC	0.71
4-1/2 x 7/8	24	SP11RF457024PSC	0.66
4-1/2 x 7/8	36	SP11RF457036PSC	0.64
4-1/2 x 7/8	50	SP11RF457050PSC	0.62
4-1/2 x 7/8	60	SP11RF457060PSC	0.60
4-1/2 x 7/8	80	SP11RF457080PSC	0.59
4-1/2 x 7/8	100	SP11RF457100PSC	0.58
4-1/2 x 7/8	120	SP11RF457120PSC	0.58
5 x 7/8	16	SP11RF057016PSC	0.83
5 x 7/8	24	SP11RF057024PSC	0.77
5 x 7/8	36	SP11RF057036PSC	0.74
5 x 7/8	50	SP11RF057050PSC	0.71

Size (in.)	Grit	Order No.	SALE
5 x 7/8	60	SP11RF057060PSC	0.70
5 x 7/8	80	SP11RF057080PSC	0.69
5 x 7/8	100	SP11RF057100PSC	0.67
5 x 7/8	120	SP11RF057120PSC	0.66
7 x 7/8	16	SP11RF077016PSC	1.47
7 x 7/8	24	SP11RF077024PSC	1.54
7 x 7/8	36	SP11RF077036PSC	1.30
7 x 7/8	50	SP11RF077050PSC	1.24
7 x 7/8	60	SP11RF077060PSC	1.20
7 x 7/8	80	SP11RF077080PSC	1.18
7 x 7/8	100	SP11RF077100PSC	1.17
7 x 7/8	120	SP11RF077120PSC	1.14

SURF PRO SGZ- SG Ceramic & Zirconia Resin Fiber Discs

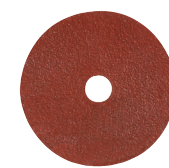


Size (in.)	Grit	Order No.	SALE
4-1/2 x 7/8	16	SP11RF457016SGZ	1.27
4-1/2 x 7/8	24	SP11RF457024SGZ	1.14
4-1/2 x 7/8	36	SP11RF457036SGZ	1.04
4-1/2 x 7/8	50	SP11RF457050SGZ	0.97
4-1/2 x 7/8	60	SP11RF457060SGZ	0.86
4-1/2 x 7/8	80	SP11RF457080SGZ	0.81
4-1/2 x 7/8	100	SP11RF457100SGZ	0.78
4-1/2 x 7/8	120	SP11RF457120SGZ	0.74
5 x 7/8	16	SP11RF057016SGZ	1.52
5 x 7/8	24	SP11RF057024SGZ	1.35
5 x 7/8	36	SP11RF057036SGZ	1.24
5 x 7/8	50	SP11RF057050SGZ	1.14

Size (in.)	Grit	Order No.	SALE
5 x 7/8	60	SP11RF057060SGZ	1.02
5 x 7/8	80	SP11RF057080SGZ	0.94
5 x 7/8	100	SP11RF057100SGZ	0.90
5 x 7/8	120	SP11RF057120SGZ	0.87
7 x 7/8	16	SP11RF077016SGZ	2.83
7 x 7/8	24	SP11RF077024SGZ	2.50
7 x 7/8	36	SP11RF077036SGZ	2.28
7 x 7/8	50	SP11RF077050SGZ	2.09
7 x 7/8	60	SP11RF077060SGZ	1.84
7 x 7/8	80	SP11RF077080SGZ	1.70
7 x 7/8	100	SP11RF077100SGZ	1.62
7 x 7/8	120	SP11RF077120SGZ	1.55

SURF PRO SMF- Soft Metal Resin Fiber Discs

• Excellent for grinding aluminum



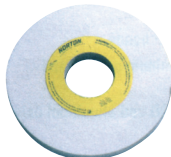
Size (in.)	Grit	Order No.	SALE
4-1/2 x 7/8	16	SP11RF457016SMF	0.95
4-1/2 x 7/8	24	SP11RF457024SMF	0.90
4-1/2 x 7/8	36	SP11RF457036SMF	0.89
4-1/2 x 7/8	50	SP11RF457050SMF	0.88
4-1/2 x 7/8	60	SP11RF457060SMF	0.86
4-1/2 x 7/8	80	SP11RF457080SMF	0.86
4-1/2 x 7/8	100	SP11RF457100SMF	0.86
4-1/2 x 7/8	120	SP11RF457120SMF	0.86
5 x 7/8	16	SP11RF057016SMF	1.07
5 x 7/8	24	SP11RF057024SMF	1.01
5 x 7/8	36	SP11RF057036SMF	0.99
5 x 7/8	50	SP11RF057050SMF	0.98

Size (in.)	Grit	Order No.	SALE
5 x 7/8	60	SP11RF057060SMF	0.96
5 x 7/8	80	SP11RF057080SMF	0.95
5 x 7/8	100	SP11RF057100SMF	0.95
5 x 7/8	120	SP11RF057120SMF	0.94
7 x 7/8	16	SP11RF077016SMF	1.76
7 x 7/8	24	SP11RF077024SMF	1.63
7 x 7/8	36	SP11RF077036SMF	1.61
7 x 7/8	50	SP11RF077050SMF	1.58
7 x 7/8	60	SP11RF077060SMF	1.55
7 x 7/8	80	SP11RF077080SMF	1.54
7 x 7/8	100	SP11RF077100SMF	1.54
7 x 7/8	120	SP11RF077120SMF	1.59



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	31.22	27.93
7 x 1/2 x 1-1/4	46	I	MH60070041024	31.22	27.93
7 x 1/2 x 1-1/4	46	J	MH60070041026	31.22	27.93
7 x 1/2 x 1-1/4	60	J	MH60070041038	31.22	27.93
7 x 1/2 x 1-1/4	60	K	MH60070041041	31.22	27.93
8 x 1/2 x 1-1/4	46	H	MH60080043746	37.41	33.49
8 x 1/2 x 1-1/4	46	I	MH60080043749	37.41	33.49
8 x 1/2 x 1-1/4	46	J	MH60080043752	37.41	33.49
8 x 1/2 x 1-1/4	60	I	MH60080043757	37.41	33.49
8 x 1/2 x 1-1/4	60	J	MH60080043858	37.41	33.49
8 x 1/2 x 1-1/4	60	K	MH60080043861	37.41	33.49
10 x 3/4 x 3	60	I	MH60100060163	73.64	64.94
12 x 1 x 5	46	I	MH60120062703	121.35	103.15

A534



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 using fewer wheels



Size (in.)	RPM	Order No.	Regular Price	SALE
4-1/2 x 1/4 x 5/8-11	13580	MH60D045070793	10.71	9.10
4-1/2 x 1/4 x 7/8	13580	MH60D045070794	9.31	7.91
5 x 1/4 x 5/8-11	12225	MH60D050070795	11.96	10.17
5 x 1/4 x 7/8	12225	MH60D050070796	10.94	9.30
6 x 1/4 x 5/8-11	10185	MH60D060070797	14.56	12.38
6 x 1/4 x 7/8	10185	MH60D060070798	13.18	11.20
7 x 1/4 x 5/8-11	8600	MH60D070070799	15.44	13.12
7 x 1/4 x 7/8	8600	MH60D070070800	13.83	11.76

A694

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. Pkg.	Order No.	Regular Price	SALE
1.5	30000	CRS	Brown	50	TM2108764	1.01	0.81
1.5	30000	MED	Maroon	50	TM2108765	1.05	0.84
1.5	30000	VFN	Blue	50	TM2108766	1.05	0.84
2	25000	CRS	Brown	50	TM2105528	1.51	1.21
2	25000	MED	Maroon	50	TM2105527	1.51	1.21
2	25000	VFN	Blue	50	TM2105523	1.51	1.21
3	18000	CRS	Brown	25	TM2105532	2.87	2.30
3	18000	MED	Maroon	25	TM2105531	2.87	2.30
3	18000	VFN	Blue	25	TM2105530	2.87	2.30

Holder: MM59-64922

A512



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

Type 27

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	2.27	1.93	MG4120063	2.27	1.93
4-1/2 x 1/4 x 5/8-11	13300	MG4120160	4.19	3.56	MG4120163	4.19	3.56

A523



Green Silicon Carbide Abrasive Wheels

- Ideal for sharpening carbide tipped cutting tools and non-ferrous metal
- Fast, free cutting action - long life

Gray Aluminum Oxide Abrasive Vitrified Bond

- For sharpening high speed steel cutting tools & removing burrs on steel parts
- Fast cutting action - long life



Material - Brown Aluminum Oxide										
Size (in.)	RPM	36			60			100		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
6 x 3/4 x 1	4140	MG3709976	24.25	20.61	MG3709975	24.02	20.42	MG3709974	24.02	20.42
6 x 1 x 1	4140	MG3709973	27.97	23.77	MG3709972	29.11	24.74	MG3709971	27.71	23.55
7 x 1 x 1	3600	MG3709966	34.20	29.07	MG3709965	33.85	28.77	MG3709964	33.85	28.77

Material - Green Silicon Carbide										
Size (in.)	RPM	60			80			120		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
10 x 1 x 1-1/4	2674	MG3709913	95.21	80.93	MG3709912	94.25	80.11	MG3709911	94.25	80.11
6 x 1 x 1	4140	MG3709926	41.29	35.10	MG3709925	40.86	34.73	MG3709924	40.86	34.73
6 x 3/4 x 1	4140	MG3709929	35.70	30.35	MG3709928	35.34	30.04	MG3709927	35.34	30.04
7 x 1 x 1	3600	-	-	-	MG3709922	49.95	42.46	MG3709920	49.95	42.46
8 x 1 x 1	3600	MG3709916	61.81	52.54	MG3709915	61.20	52.02	MG3709914	61.20	52.02

A297

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

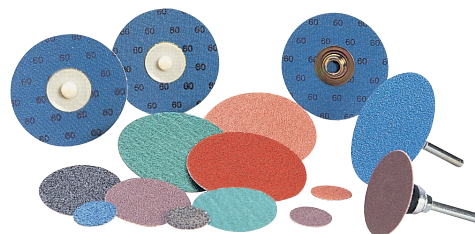
Std. Pack	Color	Description	Material	Grade	Order No.	Regular Price	SALE
20	Green	Scouring Industrial	Aluminum Oxide	Very Fine	SP22HP69GNVFNA	0.99	0.79
20	Light Gray	Clean & Finish	Silicon Carbide	Ultra Fine	SP22HP69GYUFNS	0.99	0.79
20	Maroon	General Purpose	Aluminum Oxide	Very Fine	SP22HP69MAVFNA	0.89	0.71
20	Tan	Heavy Duty	Aluminum Oxide	Medium	SP22HP69TNMEDA	1.94	1.55



A558

STANDARD ABRASIVES Quick Change 2 Ply Discs

- Aluminum oxide – Ideal for flat or contour surface on a variety of material
- A/O Xtra – Best for difficult to grind metals, flat or contour surface
- Power zirc – Ideal for rapid stock removal on stainless steel and aluminum
- Priced per 100



Grit	Aluminum Oxide			Aluminum Oxide Extra			Zirconia Pro		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM30592402	0.74	0.63	MM30592452	0.82	0.70	MM30598422	0.85	0.72
60	MM30592405	0.65	0.55	MM30592455	0.69	0.59	MM30598425	0.78	0.66
80	MM30592406	0.69	0.59	MM30592456	0.67	0.57	MM30598426	0.78	0.66
120	MM30592408	0.69	0.59	MM30592458	0.66	0.56	MM30598428	0.77	0.65

Grit	Aluminum Oxide			Aluminum Oxide Extra			Zirconia Pro		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM30522402	0.79	0.63	MM30522452	0.82	0.70	MM30528422	0.80	0.68
60	MM30522405	0.69	0.55	MM30522455	0.74	0.63	MM30528425	0.78	0.66
80	MM30522406	0.69	0.59	MM30522456	0.67	0.57	MM30528426	0.78	0.66
120	MM30522408	0.64	0.54	MM30522458	0.71	0.60	MM30528428	0.77	0.65

Grit	Aluminum Oxide			Aluminum Oxide Extra			Zirconia Pro		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM30592502	0.97	0.82	MM30592552	1.03	0.88	MM30598522	1.10	0.94
60	MM30592505	0.88	0.70	MM30592555	0.88	0.75	MM30598525	0.99	0.84
80	MM30592506	0.86	0.69	MM30592556	0.85	0.72	MM30598526	0.97	0.82
120	MM30592508	0.80	0.68	MM30592558	0.83	0.71	MM30598528	0.96	0.82

Grit	Aluminum Oxide			Aluminum Oxide Extra			Zirconia Pro		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM30522502	0.91	0.77	MM30522552	1.03	0.88	MM30528522	1.10	0.94
60	MM30522505	0.89	0.76	MM30522555	0.93	0.79	MM30528525	0.99	0.84
80	MM30522506	0.86	0.73	MM30522556	0.91	0.77	MM30528526	0.97	0.82
120	MM30522508	0.85	0.72	MM30522558	0.83	0.71	MM30528528	0.96	0.82

2" Holder: Roll-On – MM59-64922 Turn-On – MM59-64198

3" Holder: Roll-On – MM59-64949 Turn-On – MM59-64113

A521

SUPERIOR Rigid Kut® Ceramic Quick Change Discs

- Our most firm disc, as stiff as a fiber disc with better grain retention
- Grind high temp alloys such as cobalt chrome, hastalloy and inconel
- Extended life over all other quick change discs with tremendous edge wear



Size	Roll-On			Turn-On		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6447813	0.89	0.71	MM6447801	0.89	0.71
50	MM6447814	0.86	0.69	MM6447802	0.86	0.69
60	MM6447815	0.84	0.67	MM6447803	0.84	0.67
80	MM6447816	0.77	0.62	MM6447804	0.77	0.62
120	MM6447818	0.74	0.59	MM6447806	0.74	0.59

Size	Roll-On			Turn-On		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6447819	1.44	1.15	MM6447807	1.44	1.15
50	MM6447820	1.27	1.02	MM6447808	1.27	1.02
60	MM6447821	1.18	0.94	MM6447809	1.18	0.94
80	MM6447822	1.15	0.92	MM6447810	1.15	0.92
120	MM6447824	1.08	0.86	MM6447812	1.08	0.86

Standard package - 2"=100 pack / 3"=50/pack

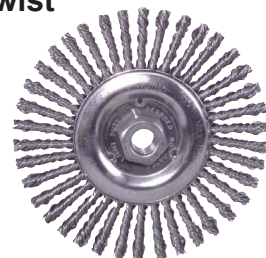
2" Holder: Roll-On – MM59-64922 Turn-On – MM59-64198

3" Holder: Roll-On – MM59-64949 Turn-On – MM59-64113

A580

WEILER Roughneck Knot Type Wire Wheel Brushes Stringer Bead Twist

- Removal of rust scale, weld splatter and oxidation
- Heavy burr removal
- Weld cleaning
- High impact action
- Very narrow face
- For hard-to-reach areas
- Primarily used for weld cleaning



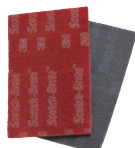
Dia. (in.)	Wire Size (in.)	Std. Arbor Hole (in.)	Trim Length (in.)	Face Width (in.)	Max. Safe Free Speed (RPM)	Order No.	Regular Price	SALE
4-1/2	.020	5/8-11	-	3/16	12,500	MK5113232	19.18	15.34
4-1/2	.020	5/8-11	-	3/16	12,500	MK5113238	35.13	28.10
4	.020	M10 x 1.25	7/8	3/16	20,000	MK5113125	19.47	15.58
4	.020	M10 x 1.50	7/8	3/16	20,000	MK5113126	19.47	15.58
5	.020	5/8-11	7/8	3/16	12,500	MK5108756	18.59	14.87
6	.020	5/8-11	1-1/8	3/16	12,500	MK5109400	27.83	22.26
6	.020	5/8-11	1-3/8	3/16	12,500	MK5108766	24.05	19.24
6	.023	5/8-11	1-1/4	1/2	12,500	MK5108916	29.40	23.52
6	.023	5/8-11	1-3/8	1/2	12,500	MK5108776	24.27	19.42
6-7/8	.020	5/8-11	1-1/8	3/16	9,000	MK5109000	28.30	22.64

Adapters for M10 x 1.25 & M10 x 1.5 are available

A703

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	1.80	1.44
6 x 9	S ULF	7448 PRO	Hand Pad	TM2264935	1.80	1.44
6 x 9	ULF	7447 & 7448 PRO	Hand Pad	TM2264933	5.26	4.21
6	A VFN	7447 PRO	Disc	TM2164960	2.77	2.22

A683

Prices Effective January 1, 2020 Thru March 31, 2020



Aluminum Oxide Type 1

Cut Off Wheels

- Significantly more cuts than the competition
- Less friction and faster cutting



Dia. (in.)	Grit	Hole Size (in.)	RPM	Std. Pack	Order No.	Regular Price	SALE
4-1/2	60	7/8	13000	25	WS0111T042	4.60	4.14
5	60	7/8	12200	25	WS0111T052	4.95	4.46
5	60	7/8	12200	25	WS0111T152	5.05	4.55
6	60	7/8	10000	25	WS0111T162	7.35	6.62
7	30	7/8	8600	25	WS0111T072	8.50	7.65

A734



Zip One Aluminum Oxide

Type 1 Cut Off Wheel

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



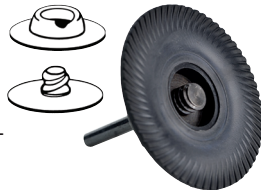
Dia. (in.)	Grit	Hole Size (in.)	RPM	Std. Pack	Order No.	Regular Price	SALE
4-1/2	60	7/8	13000	25	WS0111T542	4.65	4.19

A736

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	10.13	8.10
1-1/2	TS	SP24QCH15TS14SC	10.13	8.10
2	TR	SP24QCH20TR14SC	10.57	8.46
2	TS	SP24QCH20TS14SC	10.57	8.46
3	TS	SP24QCH30TS14SC	11.84	9.47
3	TR	SP24QCH30TR14SC	11.84	9.47
4	TR	SP24QCH40TR14SC	18.96	15.17
4	TS	SP24QCH40TS14SC	18.96	15.17
3/8-24	-	SP24A3824F1420M	17.21	13.77
5/8-11	-	SP24A5811F1420M	18.52	14.82

A644



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	2.50	2.35	MH60030010628	1.68	1.59
3	.060	3/8	25465	25	MH60030043175	2.53	2.39	MH60030010647	1.68	1.59
4	.035	3/8	19100	25	MH60040043173	3.46	3.26	MH60040010630	2.62	2.47
4	.060	3/8	19100	25	MH60040043171	3.46	3.26	MH60040010655	2.31	2.18

A572

ABRASIVES

3M 3M™ Silver Type 1 Cut Off Wheels

- Engineered precision-shaped grain designed to deliver an unbeatable combination of performance and value



Dia. (in.)	Thickness (in.)	Hole Size (in.)	RPM	Order No.	Regular Price	SALE
3	.035	1/4	25465	TM0187457	2.02	1.62
3	.035	3/8	25465	TM0187458	1.93	1.54
3	.060	3/8	25465	TM0187459	2.19	1.75
4	.035	1/4	19100	TM0187460	2.10	1.68
4	.035	3/8	19100	TM0187461	2.10	1.68
4	.060	3/8	19100	TM0187462	2.54	1.96
4-1/2	.040	7/8	13300	TM0187464	2.75	2.20
4-1/2	.045	7/8	13300	TM0187465	2.75	2.20
4-1/2	.045	7/8	13300	TM0187466	2.75	2.20
5	.045	7/8	12250	TM0187467	2.91	2.33
5	.045	7/8	12250	TM0187468	2.93	2.34
6	.045	7/8	10200	TM0187469	4.57	3.66
6	.045	7/8	10200	TM0187470	5.05	4.04

A732



High Performance Cut-Off

Wheels

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



Size	Wheel Type	Order No.	Regular Price	SALE
3 x .040 x 3/8	Type 1	SP010304038HPA	1.20	0.96
3 x 1/16 x 3/8	Type 1	SP010311638HPA	1.20	0.96
4 x .045 x 7/8	Type 1	SP014504578HPA	1.50	1.20
6 x .045 x 7/8	Type 1	SP010604578HPA	1.95	1.56

A730



Diamond Sharpening Hones



- A quick easier way to hand sharpen both cutlery and tools
- The diamond abrasive is treated to be tougher and last longer
- Available in: fine, medium, and coarse grits
- Size of abrasive part:
2"L x 3/4"W - 5-7/8" OAL



Grit	Order No.	Regular Price	SALE
Coarse	FT65EZELC	10.07	8.06
Fine	FT65EZELF	6.70	5.36
Medium	FT65EZELM	8.38	6.70

A207

STRAUSS & CO. NF - Diamond Needle Files

Round Handle

- NF - Needle Files are our most popular files
- Used on hard materials such as: Tungsten Carbide, steels of 40Hrc and harder, ceramic materials, glass, etc.
- Shank has a round shaft of 3mm

Profile	Size	Diamond Length (in.)	OAL (in.)	Coarse			Fine			Medium		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3 Square	3.6mm	2-3/4	5-1/2	MN51C2132	20.65	16.52	MN51F2132	20.65	16.52	MN51M2132	20.65	16.52
Equalling	5.1 x 1.4mm	2-3/4	5-1/2	MN51C2112	20.25	16.20	MN51F2112	20.65	16.52	MN51M2112	20.65	16.52
Half Round	5.4 x 1.8mm	2-3/4	5-1/2	MN51C2152	20.65	16.52	MN51F2152	20.65	16.52	MN51M2152	20.65	16.52
Round	3.1mm	2-3/4	5-1/2	MN51C2162	20.65	16.52	MN51F2162	20.65	16.52	MN51M2162	20.65	16.52
Warding	5.1 x 1.4mm	2-3/4	5-1/2	MN51C2122	20.65	16.52	MN51F2122	20.65	16.52	MN51M2122	20.65	16.52

A721



Reinforced Toolroom Cut-Off Wheels

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



Size (in.)	Grit	Order No.	Regular Price	SALE
3 x .035 x 1/4	A60-OBNA2	MH60030028573	3.92	3.33
3 x .035 x 3/8	A60-OBNA2	MH60030028574	3.92	3.33
3 x .060 x 1/4	A60-OBNA2	MH60030028471	4.19	3.39
3 x .060 x 3/8	A60-OBNA2	MH60030028552	4.19	3.39
4 x .035 x 3/8	A60-OBNA2	MH60040029621	6.33	5.38
6 x .035 x 1/2	A60-OBNA2	MH60060035053	11.42	9.71
6 x .035 x 5/8	A60-OBNA2	MH60060035054	11.42	9.71
6 x .060 x 1-1/4	A60-OBNA2	MH60060035165	14.79	11.80
6 x .060 x 1/2	A60-OBNA2	MH60060035164	13.74	11.13
7 x .035 x 1-1/4	A60-OBNA2	MH60070038788	16.33	13.89
7 x .035 x 5/8	A60-OBNA2	MH60070038787	16.19	23.12
7 x .060 x 1-1/4	A60-OBNA2	MH60070038796	16.33	13.88
7 x .060 x 5/8	A60-OBNA2	MH60070038811	16.45	23.12
7 x 1/16 x 5/8	57A364-TB25N	MH60070022673	22.78	19.36
8 x .035 x 5/8	A60-OBNA2	MH60080042979	18.96	15.35
8 x .060 x 1-1/4	A60-OBNA2	MH60080042983	18.96	15.35
8 x .060 x 5/8	A60-OBNA2	MH60080042981	18.96	15.35

A368



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	2.08	1.66
4-1/2 x .045 x 7/8	A36-TBF	MG9035514	2.08	1.66
6 x .040 x 7/8	A60-TB-Flex	MG9045012	2.66	2.13
6 x .045 x 7/8	A36-TBF	MG9035517	2.66	2.13

A332

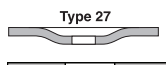


Super Quickie Cut Reinforced Cut-Off Wheels

Type 1 & Type 27

#1 Wheel choice for steel applications.

Size (in.)	RPM	Spec	Carton Qty	Type 1			Type 27		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-1/2 x .045 x 7/8	13300	A60-TBF	50	MG9045102	2.82	2.26	MG9045103	2.87	2.30



A498



MI - Diamond Mini-Needle Files

- 5-1/2" OAL, 1-5/8" Diamond length, square shank
- More consistent in shape than other brands
- Special plating process enables total usage of diamond crystals
- Ideal for filing hardened steels (40Hrc and harder), carbide, ceramics and hard plastic
- Used where fine and accurate work is necessary
- Grit Size: fine (#170/200)

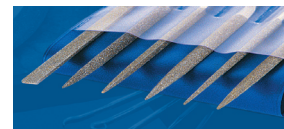
Size	OAL (in.)	Grit	Profile	Diamond Length (in.)	Order No.	Regular Price	SALE
1.7mm	5-1/2	Fine	Round	1-5/8	MN51FMI8621	22.60	18.08
3.1mm	5-1/2	Fine	3 Square	1-5/8	MN51FMI8614	22.60	18.08
3.9 x 1.1mm	5-1/2	Fine	Flat	1-5/8	MN51FMI8617	22.60	18.08
4.1 x 1.8mm	5-1/2	Fine	Half Round	1-5/8	MN51FMI8608	22.60	18.08

A242



6 Pc. NF File Sets

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



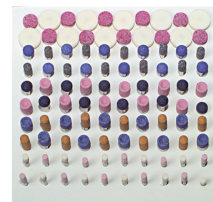
Grit	Order No.	Regular Price	SALE
Coarse	MN51C4206	123.83	99.06
Fine	MN51F4206	123.83	99.06
Medium	MN51M4206	123.83	99.06

A723

Mounted Point Kits

Tool Room Assortment

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



Description	Shank Size (in.)	Order No.	Regular Price	SALE
100 Piece Assortment	1/8 x 1-1/2	ML50MP100	58.42	46.74
50 Piece Assortment	1/4 x 1-1/2	ML50MP50	58.42	46.74

A438



Abrasive Sheets

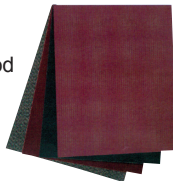
Aluminum Oxide Cloth Sheets – Metalworking

- Aluminum oxide with high temperature resin bond
- Long life and sharp, fast, cutting action
- Use on carbon & alloy steels, all metals & hard wood

Silicon Carbide Waterproof Paper

Metalworking & Woodworking

- Ideal for all materials, and prepaint applications
- Waterproof
- Silicon carbide grain



Material - Aluminum Oxide				
Grit	Sht./Pkg.	Order No.	Regular Price	SALE
60	25	MH61S91101861	1.49	1.41
80	25	MH61S91126340	1.27	1.19
100	50	MH61S91126339	1.17	1.11
120	50	MH61S91126338	1.17	1.11
150	50	MH61S91126337	1.17	1.11
180	50	MH61S91126336	1.17	1.11
240	50	MH61S91126334	1.17	1.11
320	50	MH61S91126332	1.17	1.11

Material - Silicon Carbide				
Grit	Sht./Pkg.	Order No.	Regular Price	SALE
180	50	MH61S91101150	1.10	1.03
220	50	MH61S91139367	0.99	0.84
240	50	MH61S91139366	0.99	0.84
320	50	MH61S91139364	0.99	0.84
400	50	MH61S91139362	0.99	0.84
500	50	MH61S91139361	0.99	0.84
600	50	MH61S91139360	0.99	0.84

A253

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	3.39	2.71	SP11FD457A9036Z	3.39	2.71
40	13300	SP11FD457A7040Z	3.39	2.71	SP11FD457A9040Z	3.39	2.71
60	13300	SP11FD457A7060Z	3.39	2.71	SP11FD457A9060Z	3.39	2.71
80	13300	SP11FD457A7080Z	3.39	2.71	SP11FD457A9080Z	3.39	2.71

Also available in trimmable back and zirc plus.

A640

3M Stikit™ Disc Rolls

236U

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



Dia. (in.) - 5			
Grit	Order No.	Regular Price	SALE
P120	TM1186490	48.49	38.79
P150	TM1155543	48.50	38.80
P180	TM1186492	48.50	38.80
P320	TM1186495	44.04	35.23

Dia. (in.) - 6			
Grit	Order No.	Regular Price	SALE
P120	TM1155562	68.48	54.78
P80	TM1155560	74.18	59.34
P320	TM1155567	68.48	54.78
P400	TM1186476	68.48	54.78

Priced per roll.

A420

ABRASIVES



4-1/2" Blue Zirconia Flap Discs

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



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	5.20	4.16	MG9054021	5.20	4.16
4-1/2	7/8	40	MG9054002	5.20	4.16	MG9054022	4.95	3.96
4-1/2	7/8	60	MG9054004	5.20	4.16	MG9054024	5.20	4.16
4-1/2	7/8	80	MG9054005	5.20	4.16	MG9054025	5.20	4.16
4-1/2	5/8-11	36	MG9054011	7.13	5.70	MG9054031	7.13	5.70
4-1/2	5/8-11	40	MG9054012	6.80	5.44	MG9054032	6.80	5.44
4-1/2	5/8-11	60	MG9054014	7.13	5.70	MG9054034	7.13	5.70
4-1/2	5/8-11	80	MG9054015	6.80	5.44	MG9054035	6.80	5.44

A276

3M PSA Discs

348D

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



Dia. (in.)	Grit	Std. Pk.	Order No.	Regular Price	SALE
18	36	10	TM1188882	19.95	15.96
2	50	200	TM1120911	0.78	0.62
18	60	10	TM1188880	17.41	13.93
2	60	200	TM1120910	0.76	0.61
2	80	200	TM1120909	0.73	0.58
2	120	200	TM1120907	0.67	0.54
3	40	200	TM1101335	0.92	0.74
3	50	200	TM1101334	0.90	0.72
3	60	200	TM1101333	0.87	0.70
3	80	200	TM1101332	0.83	0.66
3	100	200	TM1101331	0.81	0.65
3	120	200	TM1101330	0.81	0.65
5	36	250	TM1120891	1.39	1.11
5	40	250	TM1120890	1.35	1.08
5	50	250	TM1120889	1.30	1.04
5	60	250	TM1120888	1.23	0.98
5	80	250	TM1120887	1.12	0.90
5	100	250	TM1120886	1.12	0.90
5	120	250	TM1120885	1.08	0.86
5	150	250	TM1120884	1.12	0.90
5	180	250	TM1120883	1.08	0.86
5	240	250	TM1120881	1.08	0.86
6	50	250	TM1120879	1.85	1.48
6	60	250	TM1120878	1.81	1.45
6	80	250	TM1120877	1.71	1.37
6	100	250	TM1120876	1.60	1.28
6	120	250	TM1121497	1.60	1.28
8	36	250	TM1120874	3.82	3.06
8	40	250	TM1120873	3.62	2.90
8	60	250	TM1120871	3.29	2.63
8	80	250	TM1120870	3.12	2.50
8	120	250	TM1120868	2.98	2.38
12	36	10	TM1188906	8.89	7.11
12	40	10	TM1188905	8.39	6.71
12	60	10	TM1188903	7.45	5.96
12	80	10	TM1188902	7.04	5.63
12	100	10	TM1188901	6.64	5.31
16	36	10	TM1188890	15.74	12.59
16	60	10	TM1188887	13.74	10.99
16	80	10	TM1188886	12.46	9.97
20	36	10	TM1188878	24.24	19.39
20	40	10	TM1188877	22.90	18.32
20	50	10	TM1188876	22.44	17.95
20	60	10	TM1188875	20.38	16.30
20	80	10	TM1188874	19.21	15.37
24	36	10	TM1120802	36.01	28.81
24	40	10	TM1120801	32.37	25.90
24	80	10	TM1120798	27.68	22.14

A430

PRM^{PRO} Tungsten Electrodes

- All items listed are 7" long
- Complete line of Tungsten Electrodes available
- Priced per package of 10 pieces

SAVE
25%

NEW



Dia. (in.)	1.5% Lanthanated			2% Ceriated			E3			Pure		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/16"	WE101167GL	19.67	14.75	WE101167GC2	20.66	15.50	WE101167000	17.29	12.95	WE101167G	18.79	14.10
3/32"	WE103327GL	39.38	29.55	WE103327GC2	41.23	30.90	WE103327000	33.97	25.50	WE103327G	37.29	27.95
1/8"	WE10187GL	66.73	50.05	WE10187GC2	70.07	52.55	WE10187000	58.61	43.95	WE10187G	63.51	47.65

WG048

HARRIS 6011 Mild Steel Electrodes

- Versatile, deep penetrating steel electrode with smooth, stable arc characteristics
- Used for the welding of mild steels, galvanized and some low alloy steels
- The coating produces a forceful, spray-type arc, resulting in deep, penetrating welds



NEW

Size	Mfg. No.	Order No.	Regular Price	SALE
3/32" - 5# Package	6011505	HR7120100	3.40	2.70
1/8" - 5# Package	6011605	HR7120110	3.20	2.55
5/32" - 5# Package	6011705	HR7120120	3.20	2.55
3/32" - 10# Package	60115010	HR7120130	3.20	2.55
1/8" - 10# Package	60116010	HR7120140	3.00	2.40
5/32" - 10# Package	60117010	HR7120150	3.00	2.40

WG050

HARRIS 7018 Mild Steel Electrodes

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



NEW

Size	Mfg. No.	Order No.	Regular Price	SALE
3/32" - 5# Package	7018505	HR7120240	3.10	2.50
1/8" - 5# Package	7018605	HR7120250	2.90	2.30
5/32" - 5# Package	7018705	HR7120260	2.90	2.30
3/32" - 10# Package	70185010	HR7120270	2.90	2.30

WG054

3M 3M™ Particulate Welding Respirator, 8212, N95, with Faceseal

- 3M™ Cool Flow™ exhalation valve
- Comfortable foam face seal
- Cake-resistant filter media
- Flame resistant as demonstrated per modified ASTM D2859
- Adjustable noseclip
- Fully adjustable headstraps for secure fit
- Suggested applications: welding, torch cutting, brazing, soldering, metal pouring
- Min. 10 per box



NIOSH Rating	Oil Resistance	Order No.	Regular Price	SALE
N95	No	KB3554141	9.84	7.40

WG001

HARRIS 6290AC Heavy Preheat 2-Pc. Tips

- Acetylene tip with heavy preheat to facilitate cutting steel that is painted, rusted or has a heavily scaled surface

Size	Depth of Cut	O2 PSIG	Total O2 SCFH	Acetylene Fuel PSIG	Fuel SCFH	Cutting Drill Size	Mfg. No.	Order No.	Regular Price	SALE
OAC	3/8 - 5/8"	20 - 35	45 - 73	8 - 15	9 - 18	No. 60	6290-OAC	HR7010030	18.57	13.95
1AC	5/8 - 1"	30 - 50	73 - 128	8 - 15	18 - 36	No. 56	6290-1AC	HR7010040	18.57	13.95
2AC	1 - 2"	40 - 65	161 - 252	8 - 15	18 - 36	No. 53	6290-2AC	HR7010050	18.57	13.95



WG065

HARRIS TEN GAUGE™ Self-Shielding Welding Wire

- Self-shielding (no shielding gas needed) welding wire with exceptional arc stability, low spatter and excellent operator appeal
- Can be used in most carbon steel applications and welds especially well on galvanized sheet

NEW



Size	Mfg. No.	Order No.	Regular Price	SALE
.030" - 2# Spool	E71TGSE2	HR7120000	10.80	8.65
.030" - 10# Spool	E71TGSE5	HR7120010	10.60	8.50
.035" - 2# Spool	E71TGSE2	HR7120020	10.60	8.50
.035" - 10# Spool	E71TGSE5	HR7120030	10.20	8.15

WG049

HARRIS Alloy 4043 (MIG)

- Most often used to weld the 6XXX series of alloys

NEW



Size	Mfg. No.	Order No.	Regular Price	SALE
.030" - 1# Spool	04043E1	HR7120380	14.84	11.85
.035" - 1# Spool	04043F1	HR7120390	11.62	9.30
.035" - 16# Spool	04043F6	HR7120400	9.44	7.55
3/64" - 1# Spool	0404321	HR7120410	10.94	8.75
3/64" - 16# Spool	0404327	HR7120420	8.40	6.70

WG058

HARRIS HMD Medium Duty Acetylene Outfit

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



NEW

Capacity	Mfg. No.	Order No.	Regular Price	SALE
Cuts up to 5" (127.00mm) plate with optional tips	4400366	HR7010120	333.65	250.25

WG067

Honeywell FIBRE-METAL 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
- 8 Pt. ratchet suspension



Color	Style	Order No.	Regular Price	SALE
White	Cap	LF50E2RW1	21.82	17.45
White	Full Brim	LF50E1RW1	24.98	20.00
Yellow	Cap	LF50E2RW2	21.82	17.45

PS910

Honeywell FIBRE-METAL Tigerhood Welding Helmets

Tigerhood Futura®:

- Innovative, streamlined design combined with high-performance materials
- Lightweight helmet and free floating head-gear for added comfort



Tigerhood™ Classic:

- Unique welding helmet design provides extended throat protection while blocking fumes and smoke from the face
- Molded-in colors eliminate chipping, peeling, and fading
- Smooth, seamless shell deflects sparks and spatter reducing the risk of burn through



Window Width (in.)	Window Height (in.)	Lens Shade	Window Style	Color	Order No.	Regular Price	SALE
4-1/2	2	10	Lift Front	Gray	LF5000906	73.44	58.75
4-5/16	4-5/16	9-13	Fixed Front	Silver	LF502090X	584.96	467.95

WG002

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	145.04	87.00
Flames	KP8241266	145.04	87.00

WG008

MCR SAFETY 4600 Blue Beast® Welder's

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



Size	Order No.	Regular Price	SALE
X-Large	KB514600XL	21.55	16.15
2X-Large	KB514600XXL	25.26	18.95

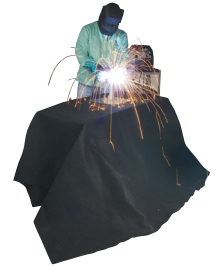
WG012

WELDING

STANLEY Velvet Shield Carbonized Fiber Welding Blankets

- Developed from Nasa technology
- High performance blankets are amazingly soft and lightweight
- Provides excellent protection against spark & spatter
- Resists heat up to 1800°F

SAVE
20%



Size	Order No.	Regular Price	SALE
18" x 18"	RT5831618	16.10	12.90
4' x 6'	RT5831646	91.20	72.95
6' x 6'	RT5831666	123.00	98.40
6' x 8'	RT5831686	168.00	134.40
8' x 10'	RT5831608	304.00	243.20

WG018

STANLEY High Temperature Work Gloves

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



Max. Temperature	Order No.	Regular Price	SALE
600° Fahrenheit	RT5808314	69.20	55.35
2000° Fahrenheit	RT5807114	116.90	93.50

WG015

STANLEY Blue B-Series Welder's

- Side split cowhide
- Foam insulated back and palm with full cotton lining
- Wing thumb
- Reinforced thumb and palm patch
- Fully welted



Size	Order No.	Regular Price	SALE
Large	RT582519B	16.10	12.90

WG016

MCR SAFETY 4952 Mustang® Mig/Tig Welders Gloves

- Select grade grain cow palm and back, wing thumb
- 4-1/2" Gauntlet split cow cuff
- Premium grade leather
- Sewn with DuPont® KEVLAR® thread
- Enhanced dexterity



Size	Order No.	Regular Price	SALE
Large	KB514952L	15.28	11.45
Medium	KB514952M	15.28	11.45

WG013

DEWALT 20V MAX* XR® 3-Speed Impact Driver Kit

- Brushless motor and XR® Li-Ion batteries deliver more run time and capacity
- Precision drive in speed 1 for precision applications and added control
- One-handed loading 1/4" hex chuck with easy grip sleeve, accepts 1" bit tips
- 3-speed settings for optimized application versatility
- 3 LEDs with 20-second delay after trigger release
- Compact and lightweight design to fit into tight areas

Model No.	Drive (in.)	RPM	Max. Torque (in/lbs)	Order No.	Regular Price	SALE
DCF85M2	1/4 Hex	0 - 2800	1400	PD20DCF85M2	387.42	290.57
DCF87M2	1/4	0-1000/2800/3250	1825	PD20DCF87M2	434.92	326.19



PT892

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

- Lithium Ion batteries offer longer tool run-time and enhanced durability
- Heavy-duty 1/2" metal ratcheting chuck with carbide inserts provide superior bit gripping strength
- High power, high efficiency motor delivers 535 unit watts out of max power for superior performance in all drilling and fastening applications
- 3-speed, all-metal transmission matches the tool to task for fastest application speed and improved run time
- LED light with 20-second delay after trigger release
- HAZ05

Model No.	Chuck Size (in.)	RPM	Max. Torque (in/lbs)	Clutch Settings	Order No.	Regular Price	SALE
DCD791D2	1/2	0-500/0-2000	-	-	PD20DCD791D2	333.36	250.02
DCD980M2	1/2	0-2000	535	22	PD20DCD980M2	404.70	344.00
DCD985M2	1/2	0-2000	535	22	PD20DCD985M2	428.61	364.32
DCD991P2	1/2	0-450/0-1300/0-2000	820	-	PD20DCD991P2	460.30	368.24



PT893

DEWALT 20V MAX* XR® Lithium Ion Brushless Compact Hammer Drill & Impact Driver Combo Kits

Model No.	Chuck Size (in.)	RPM	Max. Torque (in/lbs)	Clutch Settings	Order No.	Regular Price	SALE
DCD287D2	1/2 & 1/4	0-550 / 0-2000	350 UWO	15	PD20DCK287D2	493.85	370.39
DCK285C2	1/2 Ratcheting	0-600 / 0-2000	350 UWO	15	PD20DCK285C2	416.44	312.33



PT894

DEWALT Heavy Duty Cordless Drill Driver Kit

- RPM 0-600 / 0-2000
- 1/2" Chuck
- Maximum Torque 350 in/lbs
- 2 Speed Setting
- 20V
- HAZ05
- Keyless chuck
- All metal planetary gears
- Variable RPM in all speeds
- Includes batteries, side handles, driver bit and case
- Metal ratcheting chuck with carbide jaws

Order No.	Regular Price	SALE
PD20DCD780C2	302.91	227.18



PT884

DEWALT 1/2" 20V Impact Wrench

Order No.	Regular Price	SALE
PD20DCF880M2	408.57	306.43



PT902

DEWALT 20V Replacement Batteries

Model No.	Fits	Order No.	Regular Price	SALE
DCB203	DeWalt® DCK280C2 & DCK285C2	PD20DCB203	125.00	106.25
DCB2032	DeWalt® DCK280C2 & DCK285C2 - 2 Pack	PD20DCB2032	169.62	127.22



PT920

DEWALT 20V Max Lithium Ion Grinder Tool Kit

- 8,000 RPM motor provides high-power for cutting and grinding applications
- Tool-free guard allows for quick and easy guard adjustments/positioning
- 2-position side handle offers greater control, comfort and versatility
- Power to Grind
- Quick Change™ Wheel Release allows tool-free wheel removal without need for a wrench
- 2-Finger trigger switch (w/lock-off button) allows for convenient activation and easier gripping
- HAZ05C; 5.0 amp hour batteries (2)

Order No.	Regular Price	SALE
PD20DCG412P2	461.14	391.97



PT899

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

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

Order No.	Regular Price	SALE
PD20DWE402N	140.15	112.12



PT900

Prices Effective January 1, 2020 Thru March 31, 2020



Air Powered Sanders & Grinders

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

POWER TOOLS



Style	Features	Disc Dia. (in.)	Free Speed RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Angle	Balanced counterweight design for low vibration sanding, full 1/2 HP motor, heavy duty ball bearing construction, built-in speed regulator	6	9600	8 CFM	1/4 NPT	PF50CP870	90.87	77.24
Economy Die Grinder	22,000 RPM, 1/4" and 6mm collet, lock-off throttle, speed and power, precision control and safety, excellent tool for general high speed polishing and grinding	-	22000	13 CFM	1/4 NPT	PF50CP872	90.84	77.21
Palm	Redi power grip for better handling, speed regulator, PSA mount, swivel rear exhaust, low vibration and noise, 5mm orbit no vacuum	5	12000	8 CFM	1/4 NPT	PF50CP3511	235.29	200.00
Right Angle	Mini angle grinder compact, lightweight design, 90° angle head allows flexibility in confined areas	-	22500	11 CFM	1/4 NPT	PF50CP875	88.40	75.14

PT474



Air Powered Impact Wrenches



Drive (in.)	Type	Description/Features	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
1/2	Angle	Pin clutch in oil batch, steel clutch housing, pin type socket retainer rugged 3 piece construction, working torque range of 25-320 ft/lbs	13 CFM	1/4 NPT	PF50CP9542	329.93	280.44
1/2	Angle	Steel clutch housing, ring type of socket retainer, rugged 3 piece construction, working torque range of 25-320 ft/lbs	13 CFM	1/4 NPT	PF50CP9541	329.93	280.44

PT424



Right Angle Die Grinders

- Lockoff Lever
- Built-in Speed Control



Model No.	Free Speed RPM	Overall Length (in.)	Air Consumption Idle CFM	Collet Size (in.)	Exhaust Type	Order No.	Regular Price	SALE
SAG03S12	12,000	5-5/8	11	1/4	Rear	ST3713070	414.50	352.33
SAG03S20	20,000	5-5/8	11	1/4	Rear	ST3713110	414.50	352.33

PT909



Signature Series Random Orbital Sander

- Built-In Speed Control
- Ergonomic 24-Position Indexable Grip
- Non-Vacuum
- Free Speed RPM 12,000
- Pad Size 5"
- Orbital Diameter 3/16"
- Air Consumption Idle CFM 13



Model No.	Order No.	Regular Price	SALE
RO2512-50SNP	ST3712790	282.40	240.04

PT910



Straight Die Grinders

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



Model No.	Free Speed RPM	Overall Length (in.)	Air Consumption Idle CFM	Collet Size (in.)	Exhaust	Order No.	Regular Price	SALE
SDG10S18R	18,000	7-1/2	30	1/4	Rear	ST3716610	319.30	271.41
SDG10S25F	25,000	7-1/2	30	1/4	Front	ST3716620	319.30	271.41
SDG7S25F	25,000	6	25	1/4	Front	ST3716730	324.60	275.91

PT908



1.3 HP Right Angle Grinder 4-1/2" Diameter, 12,000 RPM

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

Specifications:

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



Order No.	Regular Price	SALE
PF3052632	716.00	608.60

PT917

DOTCO 1/4" Collet Die Grinder

30,000 RPM • Front Exhaust

- Durable and ergonomic housing
- Compact size for ultimate control - easy access to confined areas
- Ideal for die and mold work as well as deburring
- Comprehensive selection of speeds available
- Comes equipped with lock-off lever

Specifications:

- Air Inlet Size: 1/4"
- RPM 20,000
- .3 HP
- Front Exhaust
- Length 6" / 152.4mm
- Weight: .88 lbs



Order No.	Regular Price	SALE
PF6512L100036	345.00	310.50

PT882

Prices Effective January 1, 2020 Thru March 31, 2020

POWER TOOLS



1/2" Chuck Variable Speed Reversing Drills - Corded

- Variable speed control
- Heavy-duty keyed chuck
- All metal gear case and diaphragm
- 3-Wire rubber cord
- 360° locking side handle



No Load Amps	RPM	Chuck Size (in.)	Special Feature	Order No.	Regular Price	SALE
8.0	0 - 850	1/2	Ergonomic tactile grip and two finger trigger for user comfort and balance	PD50030020	196.34	166.89
8.0	0 - 850	1/2	Ergonomic textured grip and two finger trigger for user comfort and balance	PD50029920	179.98	152.98

PT881



M12 12-Volt Lithium-Ion Cordless Rotary Tool Kit

- 12 Volt REDLITHIUM battery charges within 30 minutes HAZ05
- Click and set on/off switch for precise speed selection Compact, lightweight design allows you to work comfortably in tight spaces
- REDLITHIUM offers 40% more run time, 20% more speed and torque, fade-free power, operates down to 0/-18, runs 20%



Model No.	RPM	Set Includes	Order No.	Regular Price	SALE
2460-21	32000	2460-20 M12 cordless lithium-ion rotary tool, 48-11-2401 M12 REDLITHIUM battery, 48-59-2401 M12 lithium-ion charger, cutting wheels, mandrel, wrench, carrying case	PD50246021	190.44	161.87

PT881

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



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	33.91	27.13
Lever throttle for positive speed control, complete with collet wrenches	Right Angle	20000	4 CFM	1/4 NPT	PJ60SM522	57.75	46.20

PT299

DREMEL® 6 Pc. EZ Lock Starter Kit

- Kit includes 5 pieces 1-1/2" diameter wheels plus EZ lock mandrel
- 1 Pc. mandrel design eliminates the need for screw and screwdriver
- Effortless locking and loading - no tiny mandrel screw to lose
- Compatible with all Dremel rotary tools



Order No.	Regular Price	SALE
PH50EZ406	17.60	14.08

PT554

DREMEL® Full Line Of MultiPro Accessories Tungsten Carbide Cutters

1/8" Shank



Size (in.)	Order No.	Regular Price	SALE
3/32	PH509902	10.34	8.27
3/32	PH509904	10.34	8.27
1/8	PH509901	10.34	8.27
1/8	PH509903	10.34	8.27
1/8	PH509905	10.34	8.27
1/8	PH509906	10.34	8.27
1/8	PH509909	10.34	8.27
1/8	PH509910	10.34	8.27

PT009



Hole Saw Kits

- 1-15/16" Cutting Depth

Kit Type	No. of Pieces	Set Contains (in.)	Order No.	Regular Price	SALE
Electrician's Kit	8	7/8, 1-1/8, 1-3/8, 1-3/4, 2, 2-1/2; MA34, MA45PS Arbors	FZ50177771	100.94	85.80
Industrial Kit	19	3/4, 7/8, 1-1/8, 1-3/8, 1-1/2, 1-3/4, 2, 2-1/4, 2-1/2, 3, 3-1/4, 3-5/8, 3-3/4, 4-1/4, 4-1/2; MA24, MA34, MA45PS Arbors; ME12 Extension	FZ50177870	284.42	241.76
Maintenance Kit	11	3/4, 7/8, 1-1/8, 1-3/8, 1-1/2, 1-3/4, 2, 2-1/4, 2-1/2, 3, 3-1/4, 3-5/8, 3-3/4, 4-1/4, 4-1/2, MA24, MA34, MA45PS Arbors	FZ50177825	138.78	117.96
Maintenance Kit Carbide Tipped	11	3/4, 7/8, 1-1/8, 1-3/8, 1-1/2, 1-3/4, 2, 2-1/4, 2-1/2; MA34CT, MA45PCT Arbors	FZ50157933	262.20	222.87
Master Electrician's Kit	13	7/8, 1-1/8, 1-3/8, 1-3/4, 2, 2-1/2, 3, 3-5/8, 4-1/8, 4-1/2; MA24, MA34, MA45PS Arbors	FZ50177757	207.06	176.00
Plumber's Kit	8	3/4, 7/8, 1-1/8, 1-1/2, 1-3/4, 2-1/4; MA34, MA45PS Arbors	FZ50177795	99.20	84.32



PT300

GUARDAIR®

Safety and Blind Hole Air Guns

- Ergonomic pistol grip and trigger eliminates hand fatigue
- 1/4" NPT inlet
- Maximum operating pressure 120 PSI
- Meets OSHA standards



Model	Type	Features	Order No.	Regular Price	SALE
74BH	Blind Hole Air Blow Gun	Delivers a high velocity jet of air into deep crevices & blind holes (down to 1/8" dia.) to flush out chips and dirt	LW5574BH	28.92	26.03
74SK	Air Blow Gun	Safety air shield protects workers from hazardous chip fly-back	LW5574SK	26.65	23.99
80WJ	Whisper Air Blow Gun	Unique nozzle design reduces noise levels 6-20 dB less than conventional air guns	LW5580WJ	24.22	21.80

PT451

Air Supreme® BluBird Ultra Light Air Hose

- Lightweight & ultra durable
- Ozone resistant cover provides protection from extreme weather, abrasions & kinks
- Constructed with high strength polyester braided reinforcement
- Lesser carbon footprint
- Flexibility in extreme conditions from -50°F to 180°F
- 300 PSI



Hose ID (in.)	Length	Fitting Size	Order No.	Regular Price	SALE
1/4	25'	1/4 NPT	PJ72B14025AH	18.66	14.93
1/4	50'	1/4 NPT	PJ72B14050AH	34.20	27.36
1/4	100'	1/4 NPT	PJ72B14100AH	67.21	53.77
3/8	25'	1/4 NPT	PJ72B38025AH	26.82	21.46
3/8	50'	1/4 NPT	PJ72B38050AH	50.43	40.34
3/8	100'	1/4 NPT	PJ72B38100AH	97.68	78.14
1/2	25'	1/2 NPT	PJ72B12025AH	33.92	27.14
1/2	50'	1/2 NPT	PJ72B12050AH	67.31	53.85
1/2	100'	1/2 NPT	PJ72B12100AH	133.09	106.47

PT878

Legacy® Air Hoses

- Extreme flexibility
- Temperature range: (-40° F to 150° F)
- 300 PSI working pressure
- Reinforced bend restrictor
- Excellent abrasion resistance
- Superior bend radius
- Lightweight and easy to handle



Hose ID	Length	Fitting Size	Order No.	Regular Price	SALE
1/4	25'	1/4 Male NPT	LX55HFZ1425YW2	27.68	22.14
1/4	50'	1/4 Male NPT	LX55HFZ1450YW2	42.68	34.14
1/4	100'	1/4 Male NPT	LX55HFZ14100YW2	76.05	60.84
3/8	25'	1/4 Male NPT	LX55HFZ3825YW2	38.88	31.10
3/8	50'	1/4 Male NPT	LX55HFZ3850YW2	62.28	49.82
3/8	100'	1/4 Male NPT	LX55HFZ38100YW2	111.80	89.44

PT404

Starrett® Univerz® Portable Bands With Starrett Bi-Metal Unique Technology

- Triple tempered M-42 cobalt high speed steel teeth with a fatigue resistant alloy steel backer
- Patented "Twin Tooth" design
- Faster cutting and longer tool life than ordinary blades



Length (in.)	Width (in.)	Thickness (in.)	Pitch	Order No.	Regular Price	SALE
44-7/8"	1/2	.020	10 S	FX8314600	10.96	8.77
44-7/8"	1/2	.020	10-14 S	FX8315708	10.96	8.77
44-7/8"	1/2	.020	14 S	FX8314601	10.96	8.77
44-7/8"	1/2	.020	14-18 S	FX8316088	10.96	8.77
44-7/8"	1/2	.020	18 S	FX8314602	10.96	8.77
44-7/8"	1/2	.020	24 S	FX8314603	10.96	8.77

† Priced each & Sold in sleeves (3 per sleeve) only. Sleeve cannot be broken

PT383

REELCRAFT® ReelTek Hose Reels

- Structural strength
- Easy maintenance
- Long lasting latch spring
- Multi-position guide arm allows for mounting on either floor, wall, ceiling, bench or in pit
- Improves safety, convenience and productivity
- Lightweight
- Corrosion resistance



Length - 35'						
Hose ID	Hose OD	Size	PSI	Order No.	Regular Price	SALE
3/8	.640	16-1/2 x 5-3/4 x 17-5/8	1000	LT70RT635OMP	329.00	279.65
3/8	.640	16-1/2 x 5-3/4 x 17-5/8	300	LT70RT635OLP	196.00	166.60
3/8	.750	16-1/2 x 5-3/4 x 17-5/8	5000	LT70RT635OHP	389.00	330.65
1/2	.781	16-1/2 x 6-1/4 x 17-5/8	300	LT70RT835OLP	268.00	227.80

Length - 50'						
Hose ID	Hose OD	Size	PSI	Order No.	Regular Price	SALE
1/4	.500	16-1/2 x 5-3/4 x 17-5/8	300	LT70RT450OLP	210.00	178.50
3/8	.640	16-1/2 x 6-1/4 x 17-5/8	300	LT70RT650OLP	253.00	215.05

PT376

Precision Air Grinders with 1/8" Collet

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



Item	RPM	Order No.	Regular Price	SALE
	54000	PF52UT87062	246.96	197.57
	54000	PJ65TG11A	89.92	71.94
	60000	PF50CP9104QB	155.81	132.44

PT005

COLHOSE PNEUMATICS CoBlo™ Coupler Blow Gun

- Combination quick coupling and blow gun
- For metalworking or woodworking operations
- Easy push button trigger
- Works with tool connected or disconnected
- Max working pressure: 120 psi
- 1/4" industrial with 1/4" female NPT



Order No.	Regular Price	SALE
LT5115CBG4FDPB	13.48	10.78

PT903

Air Supreme® Right Angle Grinder Surface Prep Kit

- Kit Includes:**
- 20,000 RPM right angle die grinder
 - 2" & 3" Conditioning discs
 - 2" & 3" Roll on holders
 - 1/8" Collet & 1/4" collet
 - 10 Pc. stone assortment



Order No.	Regular Price	SALE
PJ752010	113.62	90.90

PT192

**Ball End Hex Key Sets****Fractional or Metric**

- Ball end can tighten or loosen screws at angles up to 25°

MADE IN THE
USA

No. of Pieces	Sizes Included	Model No.	Order No.	Regular Price	SALE
9	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm	J4996	KP4227020	16.89	12.65
13	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"	J4995	KP4227025	22.27	16.70

HT2114

**26 Pc. Punch & Chisel Set**

- 17 Punches 3/32 - 1/4"
- 9 Chisels 1/4 - 7/8"
- Round shank

MADE IN THE
USASAVE OVER
\$65.00

HT2124

**Cold Chisels**MADE IN THE
USA

- Made from S2 steel and specially heat-treated for greater strength and durability
- Hand ground cutting edge to the exact angle for cutting through tough metals
- Modified parabolic striking end to help reduce mushrooming and chipping
- Black oxide finish to help prevent rust corrosion; extending tool life and performance



Tip Width (in.)	Shank Size (in.)	Length (in.)	Model No.	Order No.	Regular Price	SALE
1/4	3/16	4-7/8	J86A3/16S2	KP4260020	7.31	5.50
5/16	1/4	5-1/8	J86A1/4S2	KP4260010	7.04	5.30
3/8	5/16	5-3/8	J86A5/16S2	KP4260040	7.77	5.85
7/16	3/8	5-9/16	J86A3/8S2	KP4260035	7.52	5.65
1/2	7/16	6	J86A7/16S2	KP4260055	9.36	7.00
5/8	1/2	6-3/4	J86A1/2S2	KP4260000	10.29	7.70
3/4	5/8	6-7/8	J86A5/8S2	KP4260045	13.33	10.00
3/4	5/8	12	J86A5/8X12S2	KP4260050	14.85	11.15
7/8	3/4	8	J86A3/4X8S2	KP4260030	19.55	14.65
7/8	3/4	12	J86A3/4X12S2	KP4260025	24.42	18.30
1	7/8	8	J86A7/8X8S2	KP4260075	21.70	16.25
1	3/4	12	J86A7/8X12S2	KP4260065	30.68	23.00

HT2144

STANLEY

Powerlock® Tape Measures

- Entire blade coated in Mylar® for maximum strength
- 3-Rivet end-hook on Powerlock with Blade Armor and 1" blades
- Stud markings at 16" and 19.2"
- Blade returns automatically once blade lock is released
- Belt clip

POWERLOCK® WITH BLADER ARMOR®:

- Blade Armor® is a thermoplastic industrial coating on the first 6" of the blade to reduce blade breakage
- 10% smaller case than standard powerlocks
- Chrome plated case
- 8" stand out

POWERLOCK® HEAVY DUTY:

- Heavy-duty contractor grade tape rule
- Yellow die cast metal case
- Stud markings on 33-312 only

POWERLOCK 1/2" & 3/4" BLADES:

- Chrome plated case

**15 Pc Combination Wrench Set****12 Point • Satin Finish**MADE IN THE
USA

- 12 Point box end allows for fine indexing, helping to improve speed and access
- Fits 4, 6 and 12 point fasteners
- Anti-Slip Design (ASD) † open end
- Box ends incorporate the TorquePlus™ system
- Satin finish



Sizes Included	Model No.	Order No.	Regular Price	SALE
5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1", 1-1/16, 1-1/8, 1-1/4"	J1200FASD	KP4213960	464.33	348.25

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

HT2116

**Pin Punches**MADE IN THE
USA

- Two-piece design allows the tip to be hard for durability, while allowing it to be produced straight to help prevent binding
- Reverse taper to help prevent binding
- Made from S2 steel and heat-treated
- Modified parabolic striking end to help reduce mushrooming and chipping
- Black oxide finish
- A polished identification on flats marked with the tool number



Type - Individual Punch						
Tip Dia. (in.)	Blade Length (in.)	OAL (in.)	Shank (in.)	Model No.	Order No.	Regular Price SALE
1/16	3/4	4-3/8	1/4	J471/4X1/16	KP4260300	6.28 4.70
3/32	1-5/16	4-3/4	1/4	J471/4X3/32	KP4260305	6.54 4.90
1/8	1-3/16	5-3/16	5/16	J475/16X1/8	KP4260315	6.70 5.05
5/32	1-7/16	5-9/16	5/16	J475/16X5/32	KP4260320	7.77 5.85
3/16	1-5/8	5-7/8	3/8	J473/8X3/16	KP4260310	6.76 5.05
7/32	1-7/8	6-3/8	3/8	J477/16X7/32	KP4260325	9.73 7.30
1/4	2-1/8	6-3/4	3/8	J471/2X1/4	KP4260295	9.77 7.35

Type - Set				
Pcs. Per Set	Model No.	Order No.	Regular Price	SALE
7 Pc.	J47A	KP4281160	55.91	41.95

HT2108

**12Pc Punch and Chisel Set**MADE IN THE
USA

- Made from S2 steel and specially heat-treated for greater strength and durability
- Modified parabolic striking end to help reduce mushrooming and chipping
- Black oxide finish to help prevent rust corrosion; extending tool life and performance
- A polished identification panel on one of the flats is marked with the tool number and size in a black inlay
- Set offers a wide range of sizes to handle a variety of jobs
- Includes a pouch for convenient storage solution



Model No.	Order No.	Regular Price	SALE
J2	KP4281760	93.91	70.45

HT2220

Style - Heavy Duty PowerLock						
Length	Width (in.)	Graduation (in.)	Model No.	Order No.	Regular Price	SALE
12'	1/2	1/16, 1/10	33-272	KP441920	17.60	13.60
12'	3/4	1/32, 1/16	33-312	KP441980	20.36	13.73

Style - Heavy Duty PowerLock 1/2"						
Length	Width (in.)	Graduation (in.)	Model No.	Order No.	Regular Price	SALE
12'	1/2	1/32, 1/16	33-212	KP441970	16.14	10.87
12'/3.5mm	1/2	1/32, 1/16; 1mm	33-215	KP441975	16.14	12.47

Style - Heavy Duty PowerLock 3/4"						
Length	Width (in.)	Graduation (in.)	Model No.	Order No.	Regular Price	SALE
16'	3/4	1/32, 1/16	33-116	KP441945	20.83	14.03
16'/5mm	3/4	1/32, 1/16; 1mm	33-158	KP441950	20.83	16.08

Style - PowerLock						
Length	Width (in.)	Graduation (in.)	Model No.	Order No.	Regular Price	SALE
35'	1	1/16	33-835	KP441910	33.80	26.10

Style - PowerLock 1"						
Length	Width (in.)	Graduation (in.)	Model No.	Order No.	Regular Price	SALE
25'	1	1/16	33-425	KP441900	28.57	12.32
26'/8mm	1	1/32, 1/16; 1mm	33-428	KP441915	29.71	16.55
30'	1	1/16	33-430	KP441905	31.23	18.52

Style - PowerLock w/Blade Armor						
Length	Width (in.)	Graduation (in.)	Model No.	Order No.	Regular Price	SALE
16'	1	1/16	33-516	KP441955	20.92	16.17
25'	1	1/16	33-525	KP441960	22.60	17.46

MT1515

PROTO 6 Pc. Assorted Pliers Set

Contains 1 of each:

- Diagonal cutting
- Duckbill
- Needle nose long
- Tongue and groove
- Lineman's New England
- Combination slip-joint pliers

MADE IN THE
USA



Model No.	Order No.	Regular Price	SALE
J202GS	KP4230180	147.64	110.75

HT2131

PROTO Drive Extensions

MADE IN THE
USA

Full Polish

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



Drive (in.)	OAL (in.)	Model No.	Order No.	Regular Price	SALE
1/4	2	J4759	KP4240525	7.63	5.70
1/4	3	J4760	KP4240530	10.33	7.75
1/4	6	J4761	KP4240535	10.80	8.10
3/8	3	J5260	KP4240565	11.30	8.50
3/8	6	J5260-06	KP4240570	14.24	10.70
3/8	8	J5261	KP4240575	15.55	11.65
3/8	12	J5262	KP4240580	17.24	12.95
1/2	2-1/2	J5460	KP4240600	13.07	9.80
1/2	5	J5461	KP4240605	17.17	12.90
1/2	10	J5463	KP4240610	21.79	16.35
1/2	20	J5464	KP4240615	36.16	27.10

HT2123

PROTO Locking Extensions

MADE IN THE
USA

- One piece extension design
- Provides positive socket retention
- Use where accidental socket disengagement may be a concern or safety hazard



Drive (in.)	OAL (in.)	Model No.	Order No.	Regular Price	SALE
1/4	2	J4759L	KP4240550	18.44	13.85
1/4	6	J4761L	KP4240555	26.23	19.65
3/8	3	J5260-03L	KP4240700	24.38	18.30
3/8	6	J5260-06L	KP4240590	31.40	23.55
1/2	3	J5460-03L	KP4240705	28.31	21.25
1/2	5	J5461L	KP4240625	32.89	24.65
1/2	10	J5463L	KP4240630	40.91	30.70

HT2162

PROTO Wire Stripper - Pliers

- Crimps insulated and non-insulated terminals for 10-22 AWG wire
- Crimps non-insulated 7 mm and 8 mm auto ignition wire
- Cuts screw/bolt sizes 4-40, 5-40, 6-32, 8-32, 10-32, 10-24 and copper wire
- Extended length curved cutter to handle heavier wire with less force
- Pliers nose designed to grip, bend, and pull wire
- Plastisol grips for added comfort

MADE IN THE
USA



Approx. OAL (in.)	Strips	Model No.	Order No.	Regular Price	SALE
8	10-22 AWG	J298	KP4235010	30.45	22.85

HT2223

PROTO Locking C-Clamp Pliers

MADE IN THE
USA

- Wide and deep jaw profile
- Clamp in close quarters for auto body work and welding shops
- Available in black or chrome



Approx. OAL (in.)	Jaw Width (in.)	Jaw Thickness (in.)	Throat Depth (in.)	Finish	Model No.	Order No.	Regular Price	SALE
7	2-25/32	1-61/64	1-61/64	Black Oxide	J265XL	KP4230555	25.56	19.15
11	4-11/32	4	4	Nickel Chrome	J266NC	KP4230625	42.37	31.80
11	4-3/8	4	4	Black Oxide	J266XL	KP4230560	44.95	33.70

† Knurled swivel pads to protect surfaces

HT2174

STANLEY Fatmax® Open Mouth Tool Bag

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



Height (in.)	Width (in.)	OAL (in.)	Model No.	Order No.	Regular Price	SALE
12	10-3/8	19	518150M	KP438038	59.82	47.85

MH505

PROTO Flexible Extensions

MADE IN THE
USA

- Flexible shaft extensions help reach around obstructions in low torque applications
- Made of heat-treated alloy steel



Drive (in.)	Approx OAL (in.)	Finish	Model No.	Order No.	Regular Price	SALE
1/4	6	Full Polish	J4765	KP4240730	17.26	12.95
3/8	8	Black Oxide	J5268	KP4240770	22.38	16.80

HT2161

DEWALT Utility Cart with Sliding Top

- Sliding top opens to reveal additional storage space
- 2 Extra drawers and a 3" bottom drawer included
- Padded top protects the powder coat finish and doubles as a work surface
- (2) 100 lbs. ball bearing sliding drawers provide traditional tool storage and an open bottom for bulky items
- Power and USB outlets imbedded on side of cart
- Weight load capacity 500 lbs.



Order No.	Regular Price	SALE
PD2178088	547.18	410.40

MH491

PROTO 18 Pc. Ring Plier Set with Replaceable Tip

MADE IN THE
USA

- Includes one internal and one external pliers
- Covers ring range: External 1/4"-2", Internal 3/8"-2"
- Contains 16 interchangeable tips (4 of each listed below) (Replacements available)
- Pliers overall length 6-1/4"



Tips	Angles	Model No.	Order No.	Regular Price	SALE
.038, .047, .070	0°, 45°, 90°	J380	KP4230780	51.17	38.40

HT2125

HAND TOOLS

STANLEY 150 Pc. 1/4" & 3/8" Drive Mechanics Tool Set

- Chrome vanadium steel components for strength and durability
- Durable carry case for storage and mobility
- Meets or exceeds ANSI specifications

SAVE OVER

\$35.00



Model No.	Set Includes	Order No.	Regular Price	SALE
97-543	1/4" Drive 6 Point Standard: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 1/2, 13, 14 mm. 3/8" Drive 12 Point Standard: 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 1/2, 13, 14, 15, 17, 19 mm. 3/8" Drive 6 Point Deep: 7/16, 1/2, 9/16, 11/16, 3/4, 1/2, 13, 14, 15, 17 mm. Combination Wrenches: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 1/2, 13, 14, 15, 17 mm. Accessories: (55) Specialty Bits, (18) Hex Keys, 6" Long Nose Pliers, 6" Slip-Joint Pliers, 6.5 x 100 mm Flat Head Screwdriver, 5 x 75 mm Flat Head Screwdriver, 3" Phillips Screwdriver #1, 4" Phillips Screwdriver #2, 1/4" Drive Pear Head Ratchet, 1/4" Drive 3" Extension Bar, 3/8" Drive 3, 6" Extension Bars, 3/8" Drive 6 Point 5/8" Spark Plug Socket, 3/8" Drive 12 Point 13/16" Spark Plug Socket, 3/8" Drive Pear Head Ratchet, 3/8" Drive Male to 1/4" Drive Female Adapter. Blow-Molded Case.	KP435724	179.97	144.00

HT2226

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



Made In - Global							
Drive (in.)	Approx. OAL (in.)	Head Type	Made In	Handle	Order No.	Regular Price	SALE
1/4	5-1/4	Narrow Pear	Global	Smooth	KP3030001	23.28	17.45
3/8	7-3/4	Narrow Pear	Global	Finger Fit	KP3031001	28.35	21.25
1/2	9-7/8	Narrow Pear	Global	Finger Fit	KP3032011	48.65	36.50
1/2	9-7/8	Narrow Pear	Global	Finger Fit	KP3032001	44.98	33.75

Made In - USA							
Drive (in.)	Approx. OAL (in.)	Head Type	Made In	Handle	Order No.	Regular Price	SALE
1/4	5-1/4	Narrow Head Design	USA	Smooth	KP30M52EHA	31.33	23.50
1/4	7	Flex Head	USA	Smooth	KP30M52EHFA	40.01	30.00
3/8	9-3/4	Narrow Pear	USA	Smooth	KP30B52EHFB	66.68	50.00
3/8	10-1/4	Narrow Head Design	USA	Smooth	KP30B52EHLA	49.53	37.15
1/2	10-1/4	Narrow Head Design	USA	Smooth	KP30S52EHA	63.00	47.25
1/2	14-1/4	Flex Head	USA	Smooth	KP30S52EHFA	85.40	64.05
1/2	15	Narrow Head Design	USA	Smooth	KP30SB52EHLA	56.53	42.40
3/4	20-1/8	Narrow Pear	USA	Smooth Comfort Grip	KP30H51B	155.75	116.80

HT864

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	44.06	28.60
13	Fractional	KN5466991	54.56	35.40

HT832

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	13.84	9.00
9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	KM5025911	9.70	6.30
6	3, 4, 5, 6, 8, 10mm	KM5025161	13.84	10.40
7	1.5, 2, 2.5, 3, 4, 5, 6mm	KM5025171	8.34	6.25

HT344

PRM PRO TORX® 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



Torx® Size	OAL (in.)	Order No.	Regular Price	SALE
T5	1	KN7020000	1.32	1.00
T6	1	KN7020005	1.32	1.00
T7	1	KN7020010	1.08	0.80
T8	1	KN7020015	1.08	0.80
T9	1	KN7020020	1.08	0.80
T10	1	KN7020025	1.01	0.75
T15	1	KN7020030	1.01	0.75
T20	1	KN7020035	1.01	0.75
T25	1	KN7020040	1.01	0.75
T27	1	KN7020045	1.01	0.75
T30	1	KN7020050	1.01	0.75
T40	1	KN7020055	1.01	0.75

Torx® is a registered trademark of Acument Global Technologies.

HT168

BENDHUS 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



HT322

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	34.65	26.00
3/8	Deep: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	KP3036908	44.45	33.35
3/8	Standard: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4"	KP3036902	28.00	21.00
1/2	Standard: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27mm	KP3037912	84.70	63.55
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	80.50	60.40

HT753

Prices Effective January 1, 2020 Thru March 31, 2020

PRM PRO Mill Files- Professional Grade

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

SAVE
30%

NEW

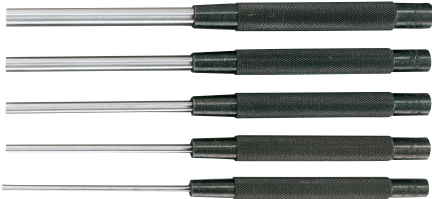


Overall Length	Smooth			2nd Cut			Bastard		
	Order No.	Price	SALE	Order No.	Price	SALE	Order No.	Price	SALE
4"	PR0410204	5.10	3.55	-	-	-	PR0410104	4.25	2.95
6"	PR0410206	5.45	3.80	PR0410006	5.40	3.80	PR0410106	4.35	3.05
8"	PR0410208	6.85	4.80	PR0410008	6.75	4.70	PR0410108	5.45	3.80
10"	PR0410210	9.20	6.45	PR0410010	8.20	5.75	PR0410110	7.55	5.30
12"	PR0410212	12.80	8.95	PR0410012	11.10	7.75	PR0410112	10.75	7.50
14"	PR0410214	20.55	14.40	-	-	-	PR0410114	16.60	11.60

HT2271

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	21.88	16.40

HT1080

SPELLMACO Transfer Punch Set with Indexed Stand

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



MADE IN THE
USA

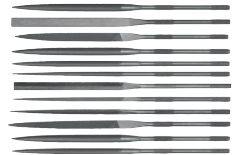
Order No.	Regular Price	SALE
KH50317	70.11	56.10

HT1027

GROBET USA

Swiss Needle File Sets

- Made of high quality steel
- Round knurled handles aid gripping
- For precise finishing on small surfaces
- Sets contain popular shapes in the cut indicated



Size	Cut	Order No.	Regular Price	SALE
5-1/2	0 Cut	GF2031675	159.74	127.80
5-1/2	2 Cut	GF2031676	159.82	127.85

HT2244

BY THE
PONY TOOLS

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



SAVE
40%

Cut (in.)	Hex Stock (in.)	OAL (in.)	Order No.	Regular Price	SALE
4	7/8	9	SE7031307	7.96	4.80

Available while supplies last

HT2045

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



MADE IN THE
USA

Stock Size (in.)	Length (in.)	Order No.	Regular Price	SALE
1/2	14	KS50468	19.73	11.85
5/8	16	KS50469	24.18	14.50
3/4	20	KS50471	31.36	18.80
3/4	24	KS50472	36.36	21.80
7/8	30	KS50473	44.82	26.90

HT030

Snap-on
INDUSTRIAL BRANDS

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	7.74	4.65	KL3011430410	5.57	3.35	KL3011430430	8.25	4.95
6	KL3011430620	8.12	4.85	KL3011430610	5.82	3.50	KL3011430630	8.54	5.10
8	KL3011430820	8.46	5.10	KL3011430810	6.76	4.05	KL3011430830	9.95	5.95
10	KL3011431020	10.97	6.60	KL3011431010	8.46	5.10	KL3011431030	11.90	7.15
12	KL3011431220	15.60	9.35	KL3011431210	14.15	8.50	KL3011431230	17.60	10.55

HT916

HAND TOOLS

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	271.44	203.60
5 - 40 in/lbs	.5 in/lbs	KL45401SM	278.46	208.85
10 - 80 cNm	1 cNm	KL4561NSM	265.20	198.90
20 - 100 in/oz	1 in/oz	KL4561SM	265.20	198.90
40 - 200 cNm	2 cNm	KL45151NSM	271.44	203.60
50 - 450 cNm	5 cNm	KL45401NSM	278.46	208.85

HT1075

APEX Phillips Bits



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	0.95	0.75
#2	1/4	1	Hard	440-2X	KW7060035	0.95	0.75
#2	1/4	1	Medium	440-2I	KW7060030	0.91	0.75
#2	1/4	1-1/2	Hard	440-215X	KW7060020	1.33	1.05
#2	1/4	2	Hard	440-22X	KW7060025	1.78	1.40
#3	1/4	1	Hard	440-3X	KW7060040	0.95	0.75
#4	1/4	1-5/16	Hard	440-4X	KW7060045	1.90	1.50
#2	5/16	1-1/4	Hard	480-2X	KW7060065	1.88	1.50
#3	5/16	1-1/4	Hard	480-3X	KW7060075	1.88	1.50

HT2058

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



Torx® Size	2			3-1/2		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
T5	KN7020100	1.53	1.15	-	-	-
T6	KN7020105	1.53	1.15	KN7020160	1.95	1.45
T7	KN7020110	1.53	1.15	KN7020165	1.95	1.45
T8	KN7020115	1.32	1.00	KN7020170	1.95	1.45
T9	KN7020120	1.32	1.00	KN7020175	1.95	1.45
T10	KN7020125	1.32	1.00	KN7020180	1.76	1.30
T15	KN7020130	1.32	1.00	KN7020185	1.76	1.30
T20	KN7020135	1.32	1.00	KN7020190	1.76	1.30
T25	KN7020140	1.39	1.05	KN7020195	1.76	1.30
T27	KN7020145	1.32	1.00	-	-	-
T30	KN7020150	1.32	1.00	KN7020200	1.76	1.30
T40	KN7020155	1.32	1.00	-	-	-

HT178

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

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	40.95	32.75

HT2042

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



SAVE
25%



Style - Screwdriver			
Size	Order No.	Regular Price	SALE
T6	KN5436266	5.48	4.10
T7	KN5436268	5.34	4.00
T8	KN5436270	5.34	4.00
T9	KN5436272	5.92	4.45
T10	KN5436274	5.96	4.45
T15	KN5436276	6.42	4.80
T20	KN5436278	6.62	4.95
T25	KN5436280	7.86	5.90

Style - T-Handle			
Size	Order No.	Regular Price	SALE
T9	KN5436409	6.44	4.85
T10	KN5436410	6.60	4.95
T15	KN5436415	7.76	5.80
T15	KN5436417	7.92	5.95
T20	KN5436420	8.80	6.60
T20	KN5436422	8.80	6.60
T25	KN5436427	9.26	6.95

HT855

APEX Torx® Bits



MADE IN THE
USA

Point Size	Drive Size	OAL (in.)	Apex #	Order No.	Regular Price	SALE
T-6	1/4	1	440-TX-06X	KW7060170	3.71	2.95
T-7	1/4	1	440-TX-07X	KW7060175	3.71	2.95
T-8	1/4	1	440-TX-08X	KW7060180	3.71	2.95
T-9	1/4	1	440-TX-09X	KW7060185	3.71	2.95
T-10	1/4	1	440-TX-10X	KW7060190	3.51	2.80
T-15	1/4	1	440-TX-15X	KW7060195	3.51	2.80
T-20	1/4	1	440-TX-20X	KW7060200	3.51	2.80
T-25	1/4	1	440-TX-25X	KW7060205	3.51	2.80
T-27	1/4	1	440-TX-27X	KW7060210	3.51	2.80
T-30	1/4	1	440-TX-30X	KW7060215	3.51	2.80
T-40	1/4	1	440-TX-40X	KW7060220	3.51	2.80
T-45	1/4	1-1/4	440-TX-45X	KW7060225	5.70	4.55
T-50	1/4	1-1/4	440-TX-50X	KW7060230	6.22	5.00
T-27	5/16	1-1/4	480-TX-27X	KW7060235	4.59	3.65
T-30	5/16	1-1/4	480-TX-30X	KW7060240	4.56	3.65
T-40	5/16	1-1/4	480-TX-40X	KW7060245	4.56	3.65
T-45	5/16	1-1/4	480-TX-45X	KW7060250	5.13	4.10
T-50	5/16	1-1/4	480-TX-50X	KW7060255	5.13	4.10
T-55	5/16	1-1/4	480-TX-55X	KW7060260	5.13	4.10

HT2101

APEX Hex Drive Magnetic Nut Setters

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

MADE IN THE
USA



Point Size	Drive Size	OAL (in.)	Style	Apex #	Order No.	Regular Price	SALE
3/16	1/4	3	6 Point	M6N-0806-3	KW7061015	26.93	21.55
1/4	1/4	2	6 Point	M6N-0808-2	KW7061020	25.88	20.70
1/4	1/4	3	6 Point	M6N-0808-3	KW7061025	27.98	22.40
5/16	1/4	3	6 Point	M6N-0810-3	KW7061030	29.25	23.40
5/16	1/4	6	6 Point	M6N-0810-6	KW7061035	34.60	27.70
3/8	1/4	3	6 Point	M6N-0812-3	KW7061040	32.20	25.75
3/8	1/4	6	6 Point	M6N-0812-6	KW7061045	38.50	30.80
7/16	1/4	3	6 Point	M6N-0814-3	KW7061050	34.30	27.45
1/2	1/4	3	6 Point	M6N-0816-3	KW7061055	35.50	28.40

HT2084

Prices Effective January 1, 2020 Thru March 31, 2020

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

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	35.70	26.80
1-1/4 to 3	13/32	5/32	8-1/8	KP30472	40.43	30.30
2 to 4-3/4	15/32	3/16	11-3/8	KP30474	56.35	42.25
4-1/2 to 6-1/4	15/32	1/4	12-1/8	KP30474A	59.68	44.75
6-1/8 to 8-3/4	15/32	5/16	13-3/4	KP30474B	72.10	54.05



HAND TOOLS

MADE IN THE
USA



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	37.63	28.20
3/4 to 2	11/32	3/16	6	KP300471A	37.63	28.20
1-1/4 to 3	13/32	3/16	8	KP300472	42.53	31.90
1-1/4 to 3	13/32	1/4	8	KP300472A	42.53	31.90
2 to 4-3/4	15/32	1/4	11	KP300474	58.45	43.85
4-1/2 to 6-1/4	15/32	3/8	12	KP300474A	62.65	47.00

HT1062

STANLEY

Pear Head Quick-Release™ Ratchets

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



Drive (in.)	OAL (in.)	Model No.	Order No.	Regular Price	SALE
1/4	5-3/8	91-928	KP435668	15.79	12.65
1/4	7-1/4	89-961	KP435662	39.15	31.30
3/8	7-11/16	91-929	KP435670	20.05	16.05
3/8	8	89-818	KP435658	20.23	16.20
1/2	9-3/8	91-930	KP435672	24.46	19.55
1/2	10-1/4	89-819	KP435660	24.73	19.80

HT2243

HACKETT
BRASS

Copper Hammers with Fiberglass Handle

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



MADE IN THE
USA

Approx. Weight	Approx. Head Dia. (in.)	Approx. Handle Length (in.)	Order No.	Regular Price	SALE
1/2 lbs	.88	11	KY5110005	61.29	36.75
1 lbs	1	12	KY5110010	74.52	44.70
1-1/2 lbs	1-1/4	12	KY5110015	93.15	55.90
2 lbs	1-1/4	13	KY5110020	103.41	62.05
3 lbs	1-1/2	15	KY5110025	134.73	80.85
4 lbs	1-3/4	15	KY5110030	175.23	105.15
5 lbs	1-3/4	15	KY5110035	196.83	118.10
10 lbs	2	21	KY5110040	410.40	246.25

HT1118

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	79.54	47.70

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	67.99	57.80

While supplies last

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	55.99	47.60

HT054

CHANNEL 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.)	Capacity (in.)	Order No.	Regular Price	SALE
9	1-3/4 thru 3	LB50209	18.74	15.00
11-3/8	2-1/2 thru 3-3/4	LB502012	20.47	16.40
12	2-1/2 thru 3-3/4	LB50212	25.92	20.75
15-1/2	2-1/2 thru 4-1/2	LB50215	31.10	24.90

† 30 Degree angled head

HT1127

LANG Snap Ring Plier Kits

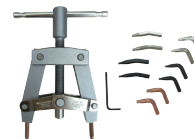
QuickSwitch Snap-Ring Pliers Kit

- 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"

MADE IN THE
USA



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

Prices Effective January 1, 2020 Thru March 31, 2020

MEASURING TOOLS

Fowler Dial Calipers

- .100" Per revolution
- .001" Dial graduations
- 4-Way measurement
- Hardened stainless steel rack
- Supplied in shop-hardened case



Measuring Range (in.)	Order No.	Regular Price	SALE
0 - 6	NA5552008007	85.00	68.00
0 - 12	NA5552008012	225.04	180.03

MT982

Fowler XTRA-VALUE Plus Dial Cal Plus

- IP54 rated against fluid and debris
- Measuring range 0 - 6" / 0-150mm
- 4-Way measurement
- .100" Per revolution
- Thumbroll for fine adjustment
- Carriage lock screw
- 4mm Thick stainless steel frame
- Adjustable bezel with lock
- Includes fitted case



Measuring Range	Graduation	Face Color	Order No.	Regular Price	SALE
0 - 6	.001"	White	NA5552008050	123.24	104.75
0 - 6	.001"	Black	NA5552008051	123.24	104.75
0 - 150mm	0.02mm	White	NA5552008052	123.24	104.75

MT1407

Fowler 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	257.08	205.66
0 - 24	NA5552008024	311.52	249.22

MT1403

INSIZE 6" Dial Caliper

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



Model No.	Measuring Range (in.)	Order No.	Regular Price	SALE
1311-12	0 - 12	SZ20131112	143.00	121.55
1311-6	0 - 6	SZ20131116	61.10	51.94
1311-8	0 - 8	SZ20131118	81.10	68.94

MT1495

Mitutoyo Dial Test Indicator Precision Tool Kit

- 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
MT80513-907-10E	221.00	198.90

MT849

Fowler 6" IP67 Ultra-Cal V Electronic Caliper

- IP-67 rating coolant proof
- 4 way measuring: ID, OD, depth and step
- Range: 6"/150mm, max error: .001"/0.02mm
- Resolution and repeatability: .0005"/0.01mm
- Accuracy: .001"/0.02mm
- Direct inch/metric conversion
- Absolute/relative and hold functions
- Direct RS-232 output
- Includes case
- Lifetime warranty



Order No.	Regular Price	SALE
NA5554100067	202.56	162.05

MT1147

TESA Technology brown & sharpe Twin-Cal Electronic Calipers

IP40 Level Protection

- Resolution .0005" / 0.01mm
- Swiss made quality and design
- Built-in TWIN-TLC wireless functionality (additional components required)
- IP40 protection from liquids and dust
- Absolute and differential measuring system
- Stainless steel frame
- Large 7/16" LCD
- Auto shut-off
- Instant inch/metric conversion
- Depth rod is square (except MV4547473 which is round)
- Uses 3V lithium battery type CR2032 (included)



Model No.	Range (in.)	Order No.	Regular Price	SALE
00590092	0 - 6 / 0 - 150mm	MV4547473	166.80	141.78
00590093	0 - 6 / 0 - 150mm	MV4547474	166.80	141.78
00590094	0 - 8 / 0 - 200mm	MV4547475	238.80	202.98
00590095	0 - 12 / 0 - 300mm	MV4547476	331.20	281.52

MT1213

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	179.00	161.10

MT1405

INSIZE Dial Indicators

- Lug back
- Limit pointers and bezel clamp provided
- Supplied with certification
- Meets ASME B89.1.10M-2001



Range (in.)	Model No.	Order No.	Regular Price	SALE
1.0	2307-1	SZ2023071	36.30	30.86
2.0	2307-2	SZ2023072	84.50	71.83

MT1507

Prices Effective January 1, 2020 Thru March 31, 2020

Mitutoyo AGD 2 Long Range Dial Indicators

2-1/4" Dial Diameter

- Lug back
- Revolution counter
- 3/8" Diameter stem
- No. 2 Series



Total Range (in.)	Dial Reading	Graduation	Range per Rev.	Dial Face Dia.	Note	Order No.	Regular Price	SALE
1.0	0-100	.001	.100	2-1/4	Lug Back	MT802416S	123.00	110.70
2.0	0-100	.001	1.00	2-1/4	Lug Back	MT802424S-19	227.00	204.30

MT1316

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

Dial Reading	Order No.	Regular Price	SALE
0-100	MT801410S	111.00	99.90
0-50-0	MT801411S	111.00	99.90



MT1430

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



MT633

Order No.	Regular Price	SALE
MT80575-123	201.00	170.85

PROCHECK Premium Quill Clamp Indicator Holder

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

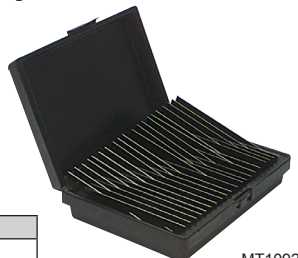


MT1446

Order No.	Regular Price	SALE
PC21QC1	61.39	49.11

PROCHECK Ultra Thin Style Steel Parallels

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



MT1092

Order No.	Regular Price	SALE
NM55UTPS20	79.04	63.23

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"



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	286.00	257.40
.0005	.060	11/16	1-1/2	312B-1	MV4042775	283.00	254.70
.0005	.060	11/16	1	312B-2	MV4086150	281.00	252.90

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	353.00	317.70
.0001	.016	11/16	1-1/2	312B-3	MV4041680	348.00	313.20

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	290.00	261.00
.0005	.060	11/16	1	312B-2V	MV4041686	296.00	266.40
.0005	.060	11/16	1-1/2	312B-1V	MV4041685	301.00	270.90

MT769

PROCHECK ABSOLUTE Digital Mini Indicators

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



Range	Order No.	Regular Price	SALE
0-1 / 0.254	PC20EIM015ABEM	205.03	164.02
0-2 / 0.50	PC20EIM025ABEM	273.43	218.74

MT1544

PROCHECK Super Precision Deep Bore Dial Gage Set

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



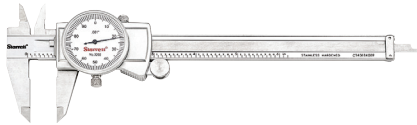
Order No.	Regular Price	SALE
PC21DBG0765	217.17	173.74

MT1523

Starrett® 0 - 6" Dial Calipers

Model No. 3202-6

- Quick, accurate measurement of OD, ID, depth and step
- Sharp, clear dial graduations of .001"
- Thumb-operated fine adjustment roll
- Sharp, black graduations on the satin finish bar
- Hardened stainless steel bar, measuring surfaces, rack, gears, and depth rod
- Positive, spring-loaded double pinion anti-backlash control



Range (in.)	Starrett No.	Order No.	Regular Price	SALE
0 - 6	3202-6	MV7061467	116.00	104.40

MT1313

PROCHECK Shockproof Dial Calipers

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



Measuring Range	Graduation	Jaw Depth	Range Per Revolution	Dial Face Color	Order No.	Regular Price	SALE
0 - 6	.001	1-9/16	0-100	White	PC21DC06SP	62.76	50.21
0 - 8	.001	1-15/16	0-100	White	PC21DC08SP	94.05	65.84
0 - 12	.001	2-1/2	0-100	White	PC21DC12SP	121.75	97.40

MT1287

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	188.00	159.80
0 - 6 / 0 - 150mm	Without Output	MT80500-196-30	161.00	144.90

MT1429

PROCHECK

Workshop Measuring Sets



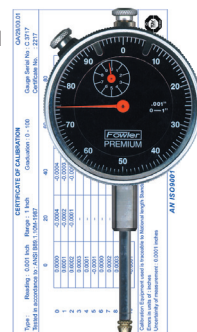
Set Contains	Order No.	Regular Price	SALE
2, 3, 4, & 6" Squares in storage box	NE604PCMTS	59.95	47.96
2, 4, & 6" Squares, 1-1/2" capacity center finder, 5 & 6" long scribes in storage box	NE606PCMTS	63.95	51.16
Scriber, 3" divider, 1/32-5/8 bore gage, screw cutting gage, 4-42 & 0.25-6.0mm screw pitch gage, 4"/100mm brass caliper, automatic center punch, protractor/depth gage, 6"/150mm flexible rule, 4" steel square, storage box	NE6011PCMTS	79.95	63.96

MT1302

Fowler

Premium Certified Dial Indicators

- Popular AGD 2 series
- Jet console-black dial face with orange hand or white dial face with black hand
- Range 0-1"
- .001" Graduation
- 0-100 continuous reading
- Carbide contact point
- Includes certificate of calibration



MT1048

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

Face Color	Range (in.)	Graduation (in.)	Reading	Order No.	Regular Price	SALE
White	.008	.0001	0-4-0	MT80513-403-10T	204.00	173.40
White	.030	.0005	0-15-0	MT80513-402-10T	159.00	135.15
White	.030	.0005	0-15-0	MT80513-412-10T	221.00	187.85
Yellow	0.2mm	0.002mm	-	MT80513-405-10T	197.00	167.45

MT924

PROCHECK

Central Lock Universal Magnetic Base & Indicator Set

- Anodized 7" universal clamp
- Easy grip and lock
- On/off magnetic base with fine adjustment
- 1 Year Warranty



MT1451

Order No.	Regular Price	SALE
PC21CLMB7FA35K	117.99	94.39

PROCHECK

Universal Mag Base & Indicator Set

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



Order No.	Regular Price	SALE
PC21UMB35K	95.59	76.47

MT1456

PROCHECK

Universal Test Indicator Dovetail Stem

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



Order No.	Regular Price	SALE
PC21DTS532	6.84	5.47

MT1479

Prices Effective January 1, 2020 Thru March 31, 2020

MEASURING TOOLS

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



Dust,
Water
& Oil
Resistant



Range (in./mm)	Order No.	Regular Price	SALE
0 - 1 / 0 - 25mm	NA5554870001	97.24	77.79
0 - 3 / 0 - 75mm	NA5554870103	324.64	259.71
1 - 2 / 25 - 50mm	NA5554870002	105.00	84.00
2 - 3 / 50 - 75mm	NA5554870003	119.00	95.20
3 - 4 / 75 - 100mm	NA5554870004	133.00	106.40

MT1126

Starrett T444 Series Outside Micrometers

- Satin chrome finish
- Balanced frame
- Insulated frame
- Ratchet thimble
- Carbide faces
- Reading in .0001" with a vernier scale on the sleeve



Range (in.)	Starrett No.	Order No.	Regular Price	SALE
0 - 1	T444.1XRL-1	MV7052083	118.00	106.20
1 - 2	T444.1XRL-2	MV7052084	139.00	125.10
2 - 3	T444.1XRL-3	MV7052085	153.00	137.70

MT1424

Mitutoyo Coolant Proof Micrometers

Series S93 — 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 Thimble	±.00005	MT80293-344-30	193.00	173.70
0 - 1 / 0 - 25.4mm	Friction Thimble	±.00005	MT80293-348-30	193.00	173.70
3 - 4 / 76.2 - 101.6mm	Ratchet Thimble	±.0001	MT80293-347-30	353.00	317.70
1 - 2 / 25.4 - 50.8mm	Ratchet Thimble	±.00005	MT80293-345-30	250.00	225.00
2 - 3 / 50.8 - 76.2mm	Ratchet Thimble	±.00005	MT80293-346-30	328.00	295.20

MT1292

Fowler 0 - 1" Micrometer with Bluetooth Kit

- Transmitter acts as a keyboard wedge
- Rechargeable battery (transmitter) with automatic off switch
- Accuracy: ± .00016" / 0.004mm
- Resolution: .00005" / 0.001mm
- Carbide measuring faces
- Absolute & incremental modes
- Haz Code 05



Range (in./mm)	Order No.	Regular Price	SALE
0 - 1 / 0 - 25mm	NA5554860001BT	145.00	130.50

MT1491

PROCHECK PREMIUM IP54 SmartMic Micrometers

- Inch / metric measuring modes
- Easy-to-read extra large LCD display
- Metal thimble with ratchet for consistent applications of measuring force
- Carbide anvil
- SPC Data Port
- Compatible with 3 Procheck data output options: USB or Bluetooth wireless and hardwire connect (Not included)
- Haz Code: HAZ05



Range (in.)	Order No.	Regular Price	SALE
0 - 1	PC20EM01SMLI5	109.95	87.96
1 - 2	PC20EM12SMLI5	137.48	109.98
2 - 3	PC20EM23SMLI5	157.15	125.72
3 - 4	PC20EM34SMLI5	181.09	144.87
4 - 5	PC20EM45SMLI5	220.59	176.47
5 - 6	PC20EM56SMLI5	256.50	205.20

MT1545

PROCHECK PREMIUM 0-3" IP54 SmartMic Micrometer Set

- Inch / metric measuring modes
- Easy-to-read extra large LCD display
- Metal thimble with ratchet for consistent applications of measuring force
- Carbide anvil
- SPC Data Port
- Compatible with 3 Procheck data output options: USB or Bluetooth wireless and hardwire connect (Not included)



Order No.	Regular Price	SALE
PC20EM03SMLI5	417.24	333.79

MT1546

PROCHECK PREMIUM 4 Pc. 12" Combination Square Set

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



Order No.	Regular Price	SALE
PC23CS1244	93.88	75.10

MT1532

Prices Effective January 1, 2020 Thru March 31, 2020

Mitutoyo Magnetic Bases

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



Description	Order No.	Regular Price	SALE
Standard	MT807010S	135.00	121.50
Fine Adjustment	MT807011BN	153.00	137.70
Flexible Arm	MT807012-10	208.00	187.20

MT1043

INOGA Double Fine Adjustment Magnetic Base

Model DG6160

- New double fine adjustment - Bottom: unique single direction; Top: universal swivel clamp
- Powerful ON/OFF magnetic base with 176 lbs force
- Holds 6mm, 8mm 3/8", dovetail, and back lug
- Unique central locking mechanism with Noga designed spring loaded bearing
- Five axis holder
- Instantly fastens in any position
- Fast and easy to set up gauges into required position
- Black finished arms
- Bottom arm measures 110mm
- Top arm measures 101mm



Order No.	Regular Price	SALE
FN60DG6160	145.35	116.28

MT1434

INOGA Replacement Magnetic Bases



Base Size	Order No.	Regular Price	SALE
180LBF-2 x 2-3/8 x 2-3/16	FN60DG0036	22.44	17.95
225LBF-2 x 3 x 2-3/16	FN60DG0038	42.06	33.65
290LBF-2 x 4-3/4 x 2-3/16	FN60DG0039	61.71	49.37

MT648

INOGA Dial Gage Holders with Power On/Off Magnetic Base

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

Spindle (Arm) Length	Style	Holding Force	Description	Order No.	Regular Price	SALE
4.33 x 3.98	Standard	176LBF	Power On/Off with Fine Adjustment on Top Clamp-Standard Arm	FN60DG61003	120.60	96.48
4.33 x 3.98	Standard	176LBF	Power On/Off with Fine Adjustment at Base-Standard Arm	FN60DG10533	129.03	103.22
5.26 x 5.24	Long	176LBF	Power On/Off with Fine Adjustment on Top Clamp-Long Arm	FN60MG61003	151.45	121.16
5.26 x 5.24	Long	176LBF	Power On/Off with Fine Adjustment at Base-Long Arm	FN60MG10533	152.24	121.79
6.43 x 4.45	Extra Long	180LBF	Power On/Off with Fine Adjustment on Top Clamp	FN60MG71003	168.28	134.62
12.8 x 9.5	"Big Boy" Super Long	290LBF	Power On/Off with Fine Adjustment on Top Clamp	FN60MA61003	246.80	197.44

MT868

PROCHECK Magnetic Bases

Standard/Fine Adjustment Stand

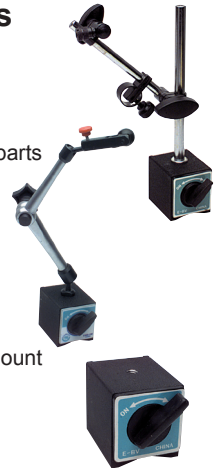
- On/off lever releases magnet
- Horizontal and vertical positioning capability
- Chrome rods and column
- V-Grooved base for mounting on cylindrical parts
- Accepts lug back groups 1, 2, 3, and 4
- Base size: 2.36"L x 1.90"W x 2.00"H

Universal Base Features:

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

Heavy Duty Magnetic Vee Base Only

- 110 Lb. Pull
- On/off switch



Description	Order No.	Regular Price	SALE
Standard	NL80300	18.35	14.68
Fine Adjustment	NL80340	21.15	16.92
Universal with 3-D Locking Mechanism	NL80TMBUM	49.90	39.92
Replacement Base only for ProCheck Mag Bases	NL80TMBA	14.55	11.64

MT1063

Starrett Magnetic Base

660 Global Series

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

Order No.	Regular Price	SALE
MV7068621	137.00	123.30



MT766

PROCHECK 6" Lite-Cal Electronic Caliper

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



Order No.	Regular Price	SALE
PC20EC06150FP	23.77	19.02

MT1542

PROCHECK ABSOLUTE Digital Height Gages

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

ABSOLUTE
CONNECT



Size	Order No.	Regular Price	SALE
0 - 12 / 0 - 300mm	PC20HG012E	512.83	410.26
0 - 24 / 0 - 600mm	PC20HG024E	778.05	622.44

MT1459

Fowler Test Indicators - .030 Range

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



Total Range (in.)	Dial Reading	Graduation (in.)	Dial Dia. (in.)	Dial Color	Point Length (in.)	Order No.	Regular Price	SALE
.030	0-15-0	.0005	1	Black	1/2	NA5552562778	129.62	103.70
.030	0-15-0	.0005	1	White	1/2	NA5552562775	129.62	103.70
.030	0-15-0	.0005	1-1/2	Black	1/2	NA5552562780	135.57	108.46
.030	0-15-0	.0005	1-1/2	White	1/2	NA5552562776	135.57	108.46
.030	0-15-0	.001	1	White	1/2	NA5552562774	121.98	97.58

MT1482

Fowler XTRA MAG® Versatile Universal & Mag Base Combo

Test Indicator:

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

Mag Base:

- Two universal ball sockets
- Microfine adjustment screw
- 3-9/16" Extension arm
- Dovetail mounting

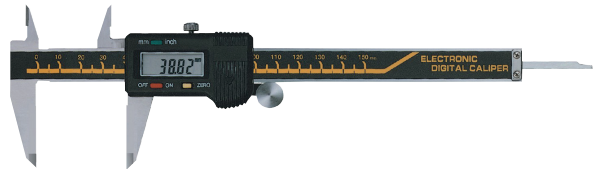


Order No.	Regular Price	SALE
NA5552585100	171.24	136.99

MT959

PROCHECK Economy Electronic Calipers

- .0005"/0.01mm Resolution
- 3-Way measurement
- Inch/metric conversion
- Hardened stainless steel jaws and depth rod
- Floating zero for comparative measurements
- No SPC output



Range	Order No.	Regular Price	SALE
0 - 6 / 0 - 150mm	NB60EDC6	43.50	34.80
0 - 8 / 0 - 200mm	NB60EDC8	65.30	52.24
0 - 12 / 0 - 300mm	NB60EDC12	108.90	87.12

MT933

PROCHECK PREMIUM 0 - 6" Electronic Caliper IP67 Protection

- Inside & outside measures
- Hardened stainless steel with precision lapped finish
- Measuring Range: 0 - 6 / 0 - 150mm
- Resolution: .0005" / 0.01mm
- Replacement battery: KA56ECR2032
- 1 Year Warranty



Comments	Order No.	Regular Price	SALE
IP67	PC20EC061505167	97.47	77.98
IP67 w/Bluetooth	PC20EC06150516W	126.37	101.10

MT1543

PROCHECK ABSOLUTE Absolute Electronic Calipers with Output

- Absolute encoding technology memorize origin zero
- .0005"/0.01mm Resolution
- Data output port (USB/SPC kit optional)
- IP54 protection against water drops and dust
- Inside & outside measures
- Hardened stainless steel with precision lapped finish
- Replacement battery: KA56ECR2032
- 1 Year Warranty

ABSOLUTE
CONNECT



Measuring Range	Resolution	Jaw Depth	Order No.	Regular Price	SALE
0 - 6 / 0 - 150mm	.0005" / 0.01mm	1-9/16	PC20EC061505AB	84.47	67.58
0 - 8 / 0 - 200mm	.0005" / 0.01mm	1-15/16	PC20EC082005AB	116.45	93.16
0 - 12 / 0 - 300mm	.0005" / 0.01mm	2-1/2	PC20EC123005AB	156.64	109.65

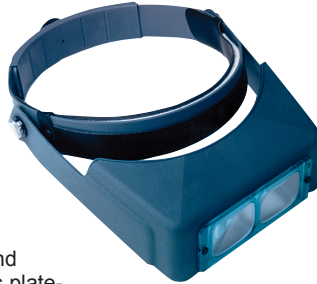
MT1272

Opti-Visor – Magnification plus Comfort

2.5X Power

MADE IN THE
USA

- 8" Focal length
- Optically correct precision glass prismatic lenses
- Genuine leather comfort band
- Unique dial adjustment fits anyone
- Wear over regular or safety glasses
- Tilts upward when not in use (no tunnel vision)
- **Note:** Opti-Loupe is also available and easily attaches to any Opti-Visor lens plate- adds extra power - for monocular use only - Order No. JZ50LP1



Order No.	Regular Price	SALE
JZ50DA5	61.18	48.94

MT898

PROCHECK 20X Magnifier with LED & UV Light

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



Order No.	Regular Price	SALE
PC22L20XLUV	53.01	42.41

MT1539

TITAN Magnifying Glass with LED Light

2.2X

- 4.4x Magnification
- LED light
- Non-distorting optical grade glass lens
- Comfortable TPR rubber grip handle
- TPR rubber framing for extra protection
- Slide on/off switch to control light
- Lens measures 2-7/8"
- 7-1/4" overall length
- Includes (3) LR44 batteries

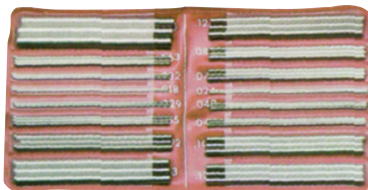


Order No.	Regular Price	SALE
KP8215029	16.42	13.14

MT1472

Thread Measuring Wire Sets

- 48 wires — 16 different sizes
- Measures all threads from 3 - 48 threads per inch
- Measures all metric threads from 0.5 mm to 6 mm
- Laminated chart included
- Furnished in fitted vinyl case



Brand Name	Order No.	Regular Price	SALE
Pee Dee	NG4916	36.00	30.60
Procheck	NB5316	13.75	11.00

MT695

KOMELON Touch Lock™ Power Tape

- Center brake to hold blade
- Diameter scale on backside of tape
- Magnetic back
- Tape is 1/2" wide and 10' in length



Order No.	Regular Price	SALE
MZ553110	6.16	4.93

MT1285

Lufkin® Shockforce Tapes

- Every Shockforce and Shockforce Nite Eye is made to last and has a two-sided, 14-foot stand out blade and diamond-abrasive coated and hook to help you measure faster.



Style - Black Blade					
Model No.	Length	Width	Order No.	Regular Price	SALE
L1116B	16'	1-3/16"	MZ50L1116B	42.25	25.42
L1125B	25'	1-3/16"	MZ50L1125B	54.86	33.01
L1135B	35'	1-3/16"	MZ50L1135B	61.39	36.95

Style - CME Blade					
Model No.	Length	Width	Order No.	Regular Price	SALE
L1116CME	16'	1-3/16"	MZ50L1116CME	39.59	23.82
L1125CME	25'	1-3/16"	MZ50L1125CME	50.50	30.40
L1135CME	35'	1-3/16"	MZ50L1135CME	58.49	35.22

Style - Yellow Blade					
Model No.	Length	Width	Order No.	Regular Price	SALE
L1116	16'	1-3/16"	MZ50L1116	39.59	23.82
L1125	25'	1-3/16"	MZ50L1125	50.50	30.40
L1135	35'	1-3/16"	MZ50L1135	58.49	35.22

MT1548

Lufkin® Quickread Tapes

- Toggle lock button
- Marked with fractions to 1/8" and decimal equivalents
- Graduated feet and inches to 1/16" top edge
- Graduated to 1/16" bottom edge, first 12" to 1/32" (except 1" blade)



Width (in)	Length	Order No.	Regular Price	SALE
3/4	12'	MZ50PQR1312	17.43	10.49
3/4	16'	MZ50PQR1316	20.45	12.30
1	25'	MZ50PQR1425	26.51	15.95

MT770

Prices Effective January 1, 2020 Thru March 31, 2020

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	133.72	106.98

MT682

Fowler Ultra Precision Ground 1-2-3 Blocks

Ideal for Precision Layout & Setup

- Each block precision ground on all six surfaces
- Case hardened (HRC 55-60)
- Surface finish from 6 to 16 microinches
- Squareness on all sides to within .0001"
- 23 holes: 5 tapped 3/8-16; 18 untapped thru holes
- The cross drilling is designed to give minimum weight yet maximum strength
- Oversized to allow for nominal .0001-.0003"
- Each set consists of a matched pair of 1 x 2 x 3" blocks, five 3/8-16 stainless steel socket head cap screws, hex key, and shop-hard-molded case



Order No.	Regular Price	SALE
NA5552439032	84.79	67.83

MT1404



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	62.45	49.96
6 x 25	.010	MA5223180	68.12	54.50
6 x 25	.012	MA5223200	70.26	56.21
6 x 25	.015	MA5223220	76.37	61.10
6 x 25	.020	MA5223240	88.88	71.10
6 x 25	.025	MA5223260	101.61	81.29
6 x 25	.032	MA5223280	112.59	90.07

Type - Blue Tempered Shim Stock Roll				
Size (in.)	Thickness (in.)	Order No.	Regular Price	SALE
3 x 50	.002	MA5223110	52.66	42.13
3 x 50	.003	MA5223120	55.28	44.22
5 x 50	.004	MA5223130	59.70	47.76
6 x 50	.005	MA5223145	52.66	42.13
6 x 50	.006	MA5223155	52.44	41.95
6 x 50	.007	MA5223165	53.46	42.77

MT970

Fowler Bore Gage Setting Master Kits

For accurately setting any bore gage up to 6" in diameter to an accuracy of .0001"

Each Set Includes Setting Device

- Base anvil: 2.750" x .80"
- Adjustable anvil 2.375" x .375" (two each)
- Internal capacity: 6"
- Depth capacity: 1"
- Centralizer capacity width: 2.625"
- Quick release holder for fast adjustment

36 Pc. Economy Gage Block Set Included

- Tolerances to .00005"
- Certificate of Calibration to NIST
- High quality aluminum case

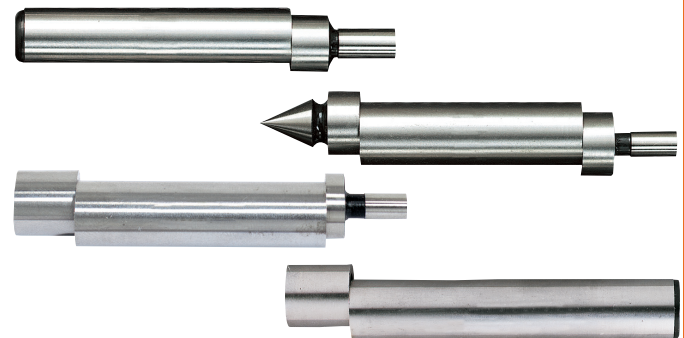


Range	Order No.	Regular Price	SALE
0 - 6"	NA5553646000	315.68	252.54
0 - 150mm	NA5553646010	322.50	258.00

MT1066

PRO-CHECK Individual Edge & Center Finders

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



Style	End	Shank (in.)	Tip Size (in./mm)	Order No.	Regular Price	SALE
Center	Single End	3/8	Point	NE60089	5.40	4.32
Center	Single End	1/2	Point	NE60090	6.54	5.23
Edge	Single End	1/2	.200	NE60088	5.64	4.51
Edge	Single End	1/2	.500	NE60083	5.22	4.18
Edge	Single End	3/8	.200	NE60085	5.40	4.32
Edge	Double End	1/2	.200 x .500	NE60084	5.70	4.56
Edge/Center	Double End	3/8	.200 x Point	NE60087	6.54	5.23
Edge/Center	Double End	1/2	.200 x Point	NE60086	7.98	6.38

MT081

MEASURING TOOLS

PRO-CHECK Test Indicator's with Accessories

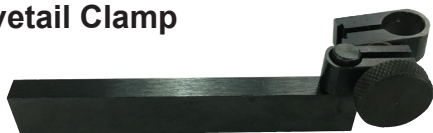
- Includes: Height Gage Bar with Universal Dovetail; 3/8" clamp, Universal Dovetail Holder with 1/4" Shank; Axial support with 3/8" shank; 3/8 to 5/32" bushing and 5/32" Dovetail stem
- Supplied in convenient case
- 1 Year Warranty



Description	Order No.	Regular Price	SALE
.030 Range, .0005" Graduation Test Indicator Kit with: Height Gage Bar with Universal Dovetail; 3/8" clamp, Universal Dovetail Holder with 1/4" Shank; Axial support with 3/8" shank; 3/8 to 5/32" busing and 5/32" Dovetail stem. Supplied in convenient case with slot for test indicator	PC21TIK3135W	126.37	101.10
.060 Range, .0005" Graduation Test Indicator Kit with: Height Gage Bar with Universal Dovetail; 3/8" clamp, Universal Dovetail Holder with 1/4" Shank; Axial support with 3/8" shank; 3/8 to 5/32" busing and 5/32" Dovetail stem. Supplied in convenient case with Accessory Kit	PC21TIK6135W	184.51	147.61

MT1481

PRO-CHECK 1/4 x 1/2" Height Gage Bar with 3/8" Dovetail Clamp



Order No.	Regular Price	SALE
PC21RH1412DTC5	16.25	13.00

MT1475

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	31.96

MT250

Starrett 5 Pc. Center Punch Set Series 117

- Center punches with round shank
- Hardened on both ends and tempered to prevent head from fracturing
- Points are ground to proper angle for maximum service, and tips accurately centered
- Sizes included: 1/16, 5/64, 3/32, 1/8, 5/32"
- Includes pouch holder

MADE IN THE
USA



Order No.	Regular Price	SALE
MV7050488	42.50	38.25

MT004

PRO-CHECK Axial Support with Dovetail - 3/8" Shank

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



Order No.	Regular Price	SALE
PC21AS38DT	21.72	17.38

MT1477

PRO-CHECK Radius Gage Sets

- All sets have stainless steel, hardened, satin chrome clad finish
- Each blade marked with size
- Plastic case included



Size (in.)	No. of Pieces	Order No.	Regular Price	SALE
1/64 to 17/64 by 64ths and 9/32 to 1/2 by 32nds	25	NB67L300CX	36.20	28.96
9/16 to 1 by 16ths	8	NB67L300E	98.90	79.12

MT246

Starrett Angle Meter

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



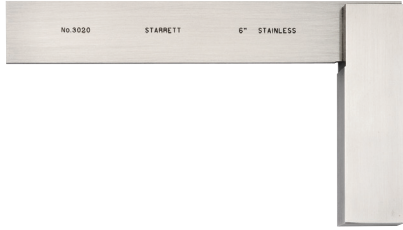
Order No.	Regular Price	SALE
MV8036080	17.30	13.84

MT214

Prices Effective January 1, 2020 Thru March 31, 2020

Starrett® 6" Toolmakers' Grade Stainless Steel Solid Square

- This high quality toolmakers' square offers squareness accuracy to .00020" (0.005mm) for every 6.0" (150mm)
- Length of blade from the inner edge of the beam to the end of the blade



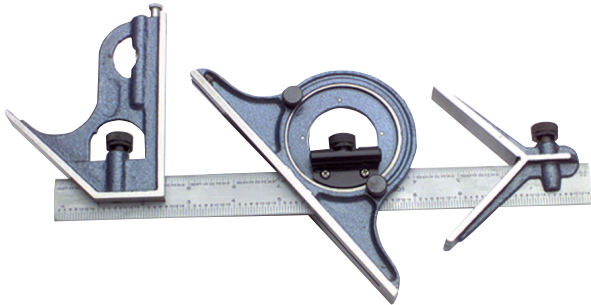
Order No.	Regular Price	SALE
MV7012227	165.00	148.50

MT1310

PRO-CHECK® 12" Combination Square Sets

Sets consist of:

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



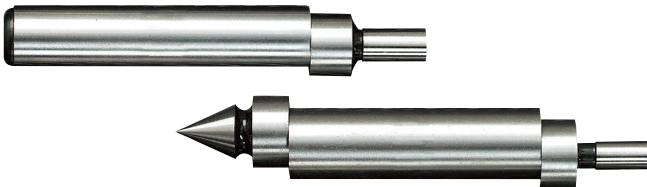
Description	Order No.	Regular Price	SALE
2 Pcs.	NB60CS122	21.30	18.11
3 Pcs.	NB60CS123	26.85	22.82
4 Pcs.	NB60CS124	49.00	39.20

MT1042

Starrett® Edge Finders

827 Series

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



Description	Shank	Stylus	Style	Order No.	Regular Price	SALE
Edge	3/8	.200	Single End	MV7053062	28.50	25.65
Edge	10mm	6mm	Single End	MV7056041	29.50	26.55
Edge/Center	1/2	.200 x Point	Double End	MV7053063	34.50	31.05

MT670

MEASURING TOOLS

PRO-CHECK® Mechanical Production Counters

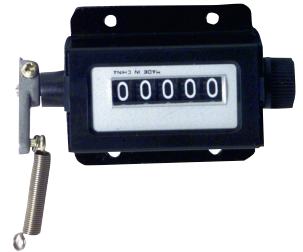
Hand Tally Type:

- Each time thumb lever is depressed a unit appears on dial
- Chrome finish
- Registers 0 to 9999



Machine Type:

- Arm and spring actuate counter
- Knob resets to zero
- 4 flange holes for rigid mounting
- Arm may be in any position
- Registers 0 to 99999

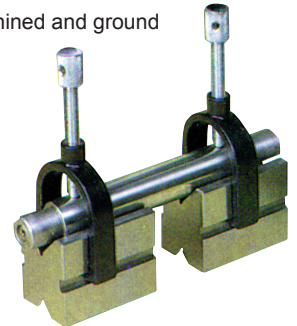


Type	Digit	Order No.	Regular Price	SALE
Hand	4	MB50251	7.30	5.84
Machine	5	MB50250	7.30	5.84

MT1120

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	24.20
1-1/2	1-5/8 x 1-3/4 x 2-3/4	NG52NVB150	41.25	33.00

MT968



Edge Finders

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



End	Shank (in.)	Tip Size (in./mm.)	Order No.	Regular Price	SALE
Single End	1/2	.500	MV4544595	17.50	14.88
Double End	1/2	.200 x .500	MV4544596	25.00	21.25

MT1106

WELLS LAMONT Industrial Y0135 Grain Leather Driver

- Grain cowhide leather economy driver
- Straight thumb
- Fabric bound hem

Size	Order No.	Regular Price	SALE
Small	LW0110340	5.26	4.20
Medium	LW0110345	5.26	4.20
Large	LW0110350	5.26	4.20
X-Large	LW0110355	5.60	4.50



PS1057

WELLS LAMONT Industrial Y9289 FlexTech™ Synthetic Knit Shell with Full NBR Coating and Nitrile Palm

- Light weight synthetic knit shell with double coating
- Sandy nitrile coated palm and fingertips affords excellent gripping
- Full NBR coating provides an extra layer of protection against liquids
- Offers great flexibility and dexterity
- Water resistant



Size	Order No.	Regular Price	SALE
Small	LW0110795	3.70	2.95
Medium	LW0110800	3.70	2.95
Large	LW0110805	4.16	3.35
X-Large	LW0110810	3.70	2.95
XX-Large	LW0110815	3.70	2.95



PS1055

WELLS LAMONT Industrial Y9296 Vis-Tech™ Cut Resistant Nitrile Palm Dipped Gloves

- Lightweight and breathable cut resistant shell provides all-day comfort and protection
- Sandy nitrile palm coating delivers improved grip in wet and oily applications
- Hi-vis orange shell improves visibility and worker compliance
- Launderable for a longer wear life



Size	Order No.	Regular Price	SALE
Small	LW0110855	8.60	6.90
Medium	LW0110860	8.60	6.90
Large	LW0110865	8.60	6.90
X-Large	LW0110870	8.60	6.90
XX-Large	LW0110875	8.60	6.90



PS1056

WELLS LAMONT Industrial Y9275 FlexTech™ HPPE Shell with PU Palm

- FlexTech™ high performance polyethylene fibers (HPPE) and gray nylon blend with gray palm coating
- Provides a good balance of comfort, dexterity and cut resistance
- Launderable for a longer wear life



Size	Order No.	Regular Price	SALE
Small	LW0110700	5.70	4.55
Medium	LW0110705	5.70	4.55
Large	LW0110710	5.70	4.55
X-Large	LW0110715	5.70	4.55
XX-Large	LW0110720	5.70	4.55



PS1054

PRM PRO Standard Cotton Jersey Gloves

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

SAVE OVER

50%

Size	Order No.	Regular Price	SALE
Large	KB38350L	1.04	0.60



PS798

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

SAVE OVER

50%

Size	Order No.	Regular Price	SALE
Large	KB38300L	1.30	0.80



PS786

SHOWA Atlas®300

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

NEW

Size	Order No.	Regular Price	SALE
Small	SG2501855	3.46	2.15
Medium	SG2501860	3.46	2.15
Large	SG2501865	3.46	2.15
X-Large	SG2501870	3.46	2.15
2X-Large	SG2501875	3.62	2.15



PS1058

MCR SAFETY 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
KB51TC5	4.30	3.20

PS329

SHOWA 381

- Oil-resistant coating
- Exceptional grip in all conditions
- Maximum tactility and dexterity
- Extended-cuff for added protection
- Mimics the curvature of a human hand to reduce fatigue
- **Coating:** foam nitrile
- **Liner:** microfiber, nylon, 13-gauge
- **Color:** gray/black palm
- **Sold minimum by dozen**

NEW



PS1021

SHOWA 377

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

NEW



PS1023

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
Medium	KB65WE300M	9.46	7.55
Large	KB65WE300L	9.46	7.55
X-Large	KB65WE300XL	9.46	7.55

PS054

bolle IRI-s

With Dioptric Corrective Lenses

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



Lens	Frame	Order No.	Regular Price	SALE
Clear +1.5 Diopter	Black & Red	BO1540187	13.39	10.05
Clear +2.0 Diopter	Black & Red	BO1540188	13.39	10.05
Clear +2.5 Diopter	Black & Red	BO1540189	13.39	10.05
Clear +3.0 Diopter	Black & Red	BO1540190	13.39	10.05

PS1014

bolle RUSH+

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



Lens	Frame	Order No.	Regular Price	SALE
Smoke	Black & Grey	BO1540208	12.94	9.70
CSP Lt. Brn	Black & Grey	BO1540209	13.50	10.15
Twilight	Black & Grey	BO1540225	12.94	9.70
Clear	Yellow & Black	BO1540243	12.94	9.70
Smoke	Yellow & Black	BO1540244	12.94	9.70
CSP Lt. Brn	Yellow & Black	BO1540245	13.50	10.15
Clear	Blue & Green	BO1540256	12.94	9.70
Smoke	Blue & Green	BO1540257	12.94	9.70
Clear	Black & Phosphorus Green	BO1540292	14.18	10.65
CSP Lt. Brn	Grey	BO1540294	13.50	10.15
Clear	Black & Red	BO1541080	12.94	9.70
-	Foam and Strap Kit	BO1540293	6.98	5.25

PS1020

MCR SAFETY 6010 NitrShield® Color Fusion Nitrile Disposable Gloves

- Nitrile
- Disposable
- Medical grade
- Powder free
- 4 Mil
- Priced and sold per box of 100



Size	Green			Orange			Pink		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Small	KB516010GS	13.63	10.20	KB516010OS	13.75	10.30	KB516010PS	14.34	10.75
Medium	KB516010GM	13.63	10.20	KB516010OM	13.75	10.30	KB516010PM	14.34	10.75
Large	KB516010GL	13.63	10.20	KB516010OL	13.75	10.30	KB516010PL	14.34	10.75
X-Large	KB516010GXL	13.63	10.20	KB516010OXL	13.75	10.30	KB516010PXL	14.34	10.75

PS896

carhartt Spokane®

- Spokane® is ideal for the active lifestyle
- Flexible rubber nosepiece
- Unique half-frame design



Lens	Frame	Order No.	Regular Price	SALE
Clear	Black Frame	KB54CHB310D	11.48	7.45
Gray	Black Frame	KB54CHB320D	12.11	7.85
Sandstone Bronze	Black Frame	KB54CHB318D	12.11	7.85

PS873

Honeywell Protégé®

- With HydroShield™ anti-fog coating
- Floating lens design and secure wraparound brow offers increased flexibility
- Ultra lightweight with soft flexible nose pads
- Offers highest available impact protection
- Hardcoat anti-scratch lens coating
- Dual action HydroShield™ provides up to 60X longer lasting fog free performance



Lens	Frame	Order No.	Regular Price	SALE
Clear HydroShield Anti-Fog	Black	LF50S4200HS	6.46	5.15
Gray HydroShield Anti-Fog	Black	LF50S4201HS	7.44	5.95

PS703

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	17.23	12.90
Clear Anti-Fog	Silver	+2.00	KB3511375	17.23	12.90
Clear Anti-Fog	Silver	+2.50	KB3511376	17.23	12.90

PS701

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



PRM PRO COB Wide Beam Pen Flashlight

- **Bulb:** COB (chips on board)
- **Lumens:** 400 High & 160 Low
- **Run Time:** 4.5 Hours - High, 15 Hours - Low, 40 Hours Blinking
- **Switch:** Button
- **Battery:** 3 AA (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



Order No.	Regular Price	SALE
KB9199171	14.99	8.25

PS959

PRM PRO Machinist's Apron

5 Pocket or Chest Pocket

- Measures 35.27" x 27.5"
- Color: Navy
- Material: Spun polyester



Order No.	Regular Price	SALE
KB391000	16.43	9.85

Available while supplies last



PS1001

bolle RUSH+ Goggles

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



Lens	Frame	Order No.	Regular Price	SALE
Clear	Black & Red	BO1540252	19.13	14.35
Twilight	Black & Grey	BO1540258	19.13	14.35
Smoke	Black & Grey	BO1540259	19.13	14.35
CSP Lt. Brn	Black & Grey	BO1540284	19.69	14.75

PS1012



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



Style - Avante			
Lens	Order No.	Regular Price	SALE
Amber	KB54SB4530D	5.76	3.75
Blue Mirror	KB54SB4575D	7.37	4.80
Clear	KB54SB4510D	5.23	3.40
Gray	KB54SB4520D	5.76	3.75
Infinity Blue	KB54SB4560D	5.76	3.75
Silver Mirror	KB54SB4570D	7.37	4.80

Style - V2 Reader Magnifiers				
Lens	Magnification	Order No.	Regular Price	SALE
Clear	+1.00	KB54SB1810R10	11.17	7.25
Clear	+1.50	KB54SB1810R15	11.17	7.25
Clear	+2.00	KB54SB1810R20	11.17	7.25
Clear	+2.50	KB54SB1810R25	11.17	7.25
Clear	+3.00	KB54SB1810R30	11.17	7.25

PS519

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



NRR	Style	Min. Qty. Per Box	Order No.	Regular Price	SALE EACH
32 dB	Corded Earplug	120	KB3592952	1.00	0.75

Sold in Box Only PS870

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

- Designed to direct exhaled air away
- 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
- **NOTE: Priced per each, sold in multiples of 20 ONLY**

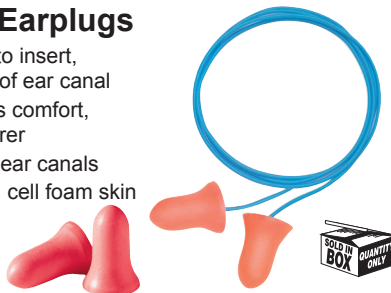


Order No.	Regular Price	SALE
KB3537192	1.85	1.40

PS011

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 wearer
- Ideal for people with smaller ear canals
- Smooth, soil-resistant closed cell foam skin prevents dirt build-up



Description - Max Disposable Foam Earplugs					
NRR	Style	Min. Box Qty. Sold	Order No.	Regular Price	SALE EACH
33	Corded Earplug	100	LF50MAX30	0.34	0.25
33	Uncorded Earplug	200	LF50MAX1	0.18	0.15

Description - Max Lite Disposable Foam Earplugs					
NRR	Style	Min. Box Qty. Sold	Order No.	Regular Price	SALE EACH
30	Corded Earplug	100	LF50LPF30	0.28	0.22
30	Uncorded Earplug	200	LF50LPF1	0.14	0.11

Compliance: ANSI S3.19-1974

PS716

MCR 9218M13 Cut Pro™ Cut Resistant Sleeve

- 18", 13 gauge HPPE/ synthetic sleeve
- Allows excellent manual dexterity
- Abrasion and cut resistance, CE 4342 and ANSI Cut 2
- Seamless shell is comfortable, cool, and easy to wear



Size	Thickness	Order No.	Regular Price	SALE
18	13 Gauge	KB519218M13	6.58	4.95

* HPPE: High performance polyurethane

PS930

3M One Touch™ Earplug Dispenser 391-1000

- Quick, clean and convenient access to earplugs
- Holds a range of earplug refill bottles, including E-A-Rsoft™ regular (order earplugs separately.)



Description	Qty. Per Box	Order No.	Regular Price	SALE
3M™ E-A-Rsoft™ Yellow Neon™ Earplug Replacement Bottle	500	KB3591004	0.17	0.15

†Priced each sold in multiples of 500 pcs.

PS587

PRM PRO Universal Safety Vest

- Hi-vis lime mesh with silver strips
- Velcro closure
- One size fits most



Order No.	Regular Price	SALE
KB38SV8099	6.63	4.30

PS952

SAS Nuisance Dust Mask

- Adjustable metal nose piece shapes easily to face
- Single strap elastic head band
- Reduces the irritating effects from non-toxic particles
- Sold per box of 50 masks (priced per each mask)

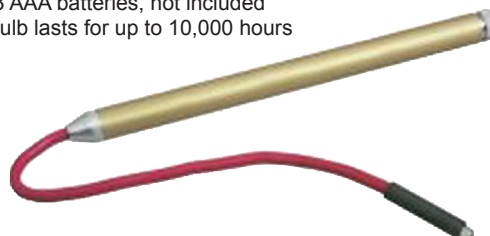


Order No.	Regular Price	SALE
LF702985	7.58	4.95

PS951

Lisle LED Flexible Flashlight

- Flexible wire works around obstructions & holds the shape you give it
- White light brightly illuminates even the tightest work area
- Uses 3 AAA batteries, not included
- LED Bulb lasts for up to 10,000 hours



Order No.	Regular Price	SALE
KN6535900	29.42	22.00

PS1063



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	105.00	68.25

PS883



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	116.00	75.40

PS884

OIL-DRI Universal Bonded Products

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



Description	Size	Box Qty.	Weight	Order No.	Regular Price	SALE
Bonded SMF Heavy Weight Roll	30" W x 150' L	1	25 lbs	LD60L90901	141.32	113.05
Heavy Weight Bonded SMF Pads	15" W x 19" L	100	17 lbs	LD60L90902	95.42	76.35
Heavy Weight Bonded SMF Pads	16" W x 20" L	50	9 lbs	LD60L90907	52.80	42.25

PS360

tensor Safety Protection Shields

- Protect your eyes from chips and liquids
- Flat polycarbonate safety shield
- 1/8" Thick
- 22" reach flexible gooseneck attachment
- 3 Year warranty



Size (in.)	Clamp			Fasten Direct			Magnetic		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
10W x 10H	KC511030	34.48	27.60	KC511020	31.48	25.20	KC511010	34.48	27.60
12W x 12H	KC511032	35.82	28.65	KC511022	23.58	18.85	KC511012	35.82	28.65
8W x 8H	KC511038	32.00	25.60	KC511028	28.00	22.40	KC511008	32.00	25.60

PS042



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	7.83	6.05
Regular	LF656850	8.37	6.55
Shoulder	LF656852	12.74	10.05

PS437

STEELMAN^{PRO} Dura-Wedge Work Light Rechargeable

- **Bulb:** 24 integrated LED
- **Run time:** up to 3 hours on full power and 8.5 hours on low power setting
- **Lumens:** 1000 and dimmable to 80 lumens
- **Body:** TPR overmolded housing
- **Battery:** 5200mah TWIN-CELL
- **Features:** 3 1/4-20 mounting ports, water and impact resistant



Order No.	Regular Price	SALE
KE5379232	72.36	57.90

PS1024

STEELMAN^{PRO} Multi-Mode LED Rechargeable Headlamp

Focusing Adjustable

- **Bulb:** LED with 4 auxiliary lights
- **Run time:** 2, 3, or 9 hours depending on setting
- **Lumens:** settings for 260, 200 or 60lumens of light
- **Body:** ABS plastic
- **Battery:** Li-Ion
- **Features:** hands free activation, built in clips, pivoting head, adjustable straps, rear safety light



Order No.	Regular Price	SALE
KE5379379	46.18	36.95

PS1059



Worksafe LED Flashlights

- **Bulb:** LED
- **Lumens:** 15720: 60 lumens, 15460: 80 lumens
- **Run Time:** 15720: 250 hrs., 15460: 200 hrs.
- **Battery:** 15720: (3) D Alkaline, 15460: (2) D Alkaline
- **Size:** 15720: 10.2 x 2.3", 15460: 8.1 x 2.3"
- **Features:** For use in hazardous situations, intrinsically safe, waterproof, anti-roll tube

MADE IN THE
USA



Model No.	Order No.	Regular Price	SALE
2217 LED	KN0115460	21.03	17.90
2224 LED	KN0115720	22.05	18.75

PS1060



Razor LED

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

MADE IN THE
USA



Color	Order No.	Regular Price	SALE
Black	KN0160100	33.63	28.60
Hi Vis Green	KN0160101	33.63	28.60
Orange	KN0160102	33.63	28.60

PS1062



Vision LED Headlamp

Model No. 200501

NEW

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



Order No.	Regular Price	SALE
KN01200501	17.50	14.90

PS1061

STEELMAN^{PRO} Tri-Color Headlamp

- **Bulb:** CREE LED
- **Run time:** high - 3 hrs, medium - 4 hrs. 30 mins, low - 9 hrs
- **Lumens:** 300 lumens / 200 lumens
- **Body:** ABS plastic
- **Battery:** 3 AAA (included)
- **Features:** tri-color COB area light, white, red and green illumination, rear safety light, emergency whistle, 60 degree articulating bracket, polycarbonate lens, soft push mode buttons



Order No.	Regular Price	SALE
KE5379233	19.92	15.95

PS1002

DURACELL Procell Alkaline Industrial Batteries

NEW



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

Battery Size	Batteries Per Carton	Order No.	Regular Price	SALE PRICE PER EACH
AAA	24	DU0310000	0.53	0.34
AA	24	DU0310050	0.53	0.34
9V	12	DU0310200	2.20	1.45
C	12	DU0310070	1.20	0.78
D	12	DU0310090	1.48	0.95

ILLUMINATOR 3-in-1 LED Clamp Light Rechargeable

- Rechargeable LED lamp provides up to 1.5-hours of constant light
- 6 SMD LEDs rated up to 180 lumens to help brighten any office or craft area
- 18-inch flexible shaft helps customize light to any work space
- Micro USB charging port with charge level indicator for added convenience
- Magnetic base attaches to any metal surface for hands-free use
- One year limited warranty



Order No.	Regular Price	SALE
KE5393119	27.02	21.60

PS1018



LED Lighthawk Gen II Lanterns

- **Bulb:** LED
- **Lumens:** 300 high / 125 low
- **Batteries:** lithium ion-rechargeable
- **Run time:** 7 hours high/ 14 hours low
- **Beam distance:** 447M
- **Size:** 9.5 x 3.12 x 5.12"
- **Switch:** Toggle
- Intrinsically safe
- **Features:** wall and vehicle mountable, dual mode main beam, super tough nylon construction, LED charge status indicator, non-slip rubber bottom and handle, low battery indicator, easily adjustable articulated head, quick release shoulder strap, dual mode-high visibility tail light, waterproof, floats, weighs just 1.9 pounds, limited lifetime warranty



Includes:	Color	Order No.	Regular Price	SALE
4 D not included	Orange	KN0108050	46.73	39.70
LI battery, 4 Cell, 220V AC Charger	Black	KN0107651	292.71	248.80
LI battery, 4 Cell, 220V AC Charger	Orange	KN0107650	292.71	248.80
LI battery, 4 Cell, 220V AC Charger	Yellow	KN0107652	292.71	248.80
LI battery, 4 Cell, AC & DC Chargers	Black	KN0107611U	309.36	262.95
LI battery, 4 Cell, AC & DC Chargers	Orange	KN0107610U	309.36	262.95
LI battery, 4 Cell, AC & DC Chargers	Yellow	KN0107612U	309.26	262.85
LI battery, 4 Cell, AC Charger	Black	KN0107611	292.71	248.80
LI battery, 4 Cell, AC Charger	Orange	KN0107610	292.71	248.80
LI battery, 4 Cell, AC Charger	Yellow	KN0107612	292.71	248.80
LI battery, 4 Cell, DC Charger	Black	KN0107631	292.71	248.80
LI battery, 4 Cell, DC Charger	Orange	KN0107630	292.71	248.80
LI battery, 4 Cell, DC Charger	Yellow	KN0107632	292.71	248.80
LI battery, 4 Cell, Direct Wire	Black	KN0107671	292.71	248.80
LI battery, 4 Cell, Direct Wire	Orange	KN0107670	292.71	248.80
LI battery, 4 Cell, Direct Wire	Yellow	KN0107672	292.71	248.80

PS1083

SCJohnson
PROFESSIONAL.
A family company™

Stokoderm® Protect PURE

- Protectant cream
- Moderate, changing contamination; gloves in use
- Universal pre-work cream to help protect skin against water and non-water based workplace contaminants, e.g. oils and solvents
- Perfume-free
- Food industry compatible

NEW



Description	Hazard Code	Order No.	Regular Price	SALE
100mL Tube	HAZ58	DI15UPW100ML	4.55	3.64

FL438

SCJohnson
PROFESSIONAL.
A family company™

Stokoderm® Aqua PURE

- Protectant cream
- Frequent and/or prolonged exposure to water-based contaminants; gloves in use
- Specialist pre-work cream effective against water based contaminants and for wet working environments
- Contains Bisabolol to help stabilize and regenerate the natural skin barrier
- HACCP assessed to confirm suitability for food industry

NEW



Description	Hazard Code	Order No.	Regular Price	SALE
100mL Tube	HAZ58	DI15SAQ100ML	7.96	6.37

FL439

SCJohnson
PROFESSIONAL.
A family company™

Refresh™ Azure FOAM 1L Cartridge

- Light foam hand soap
- Washroom areas in offices and public facilities
- Universal, fresh fragrance
- Contains skin conditioners to improve skin hydration and prevent drying
- Highly acceptable rich foam formula

NEW



Description	Hazard Code	Order No.	Regular Price	SALE
1L Cartridge, requires dispenser Part # DI15WRM1LDS	HAZ58	DI15AZU1L	13.36	10.69

FL448

SCJohnson
PROFESSIONAL.
A family company™

SBS® 40 Medicated Skin Cream

NEW

- For use in industrial and healthcare work areas, office and public washrooms
- Lightly perfumed, highly effective mild conditioning cream to provide effective skin care
- Non-greasy and fast absorption, not affecting dexterity
- Suitable for use under latex and nitrile gloves
- Contains 47% renewable or bio-based content; USDA BioPreferred certified



Description	Hazard Code	Order No.	Regular Price	SALE
100mL Tube	HAZ58	DI15SBS100ML	3.29	2.63
1L Cartridge, requires Dispenser Part # DI15RES1LDS	HAZ58	DI15SBS1L	18.60	14.88

FL432

SCJohnson
PROFESSIONAL.
A family company™

Stokolan® Light PURE

NEW

- Conditioning cream
- For use in industrial, food handling and healthcare work areas, office and public washrooms
- Perfume-free and dye-free formulation reduces risk of skin irritation
- Non-tainting to food
- Contains Glycerin, Allantoin and Shea Butter to moisturize and condition the skin
- Suitable for use under latex and nitrile gloves



Description	Hazard Code	Order No.	Regular Price	SALE
100mL Tube	HAZ58	DI15RES100ML	3.37	2.70
1L Cartridge, requires Dispenser Part # DI15RES1LDS	HAZ58	DI15RES1L	19.03	15.22

FL433

SCJohnson
PROFESSIONAL.
A family company™

Deb Stoko® Cleanse Washroom 1000 Dispenser

- Manual white dispenser
- BioCote Protected
- Guaranteed for Life

NEW



Description	Order No.	Regular Price	Sale
1L Deb Stoko® dispenser, specially designed for 1L washroom product cartridges	DI15WRM1LDS	1.00	FREE

FL449

Deb InstantFOAM® Complete 1L Cartridge

- Ideal for critical hand hygiene situations where close or semi-closed quarters may increase the likelihood of outbreaks (eg. cruise ships, food manufacturing and long term care)
- Perfume and dye-free, hypoallergenic, alcohol based hand sanitizer, clinically proven to prevent skin dryness even during high frequency usage
- Broad spectrum, highly effective and non-tainting to food
- Compatible with latex, nitrile and vinyl gloves
- Quickly and easily spreads across the hands compared to gels. Leaves no sticky residue
- To be used as a preventative hand hygiene measure or as part of an outbreak measure



Description	Hazard Code	Order No.	Regular Price	SALE
1L Cartridge, requires 1L manual dispenser Part # DI15SAN1LDS.	HAZ03	DI15IFC1L	19.73	15.78

FL441

Deb InstantFOAM® Complete Alcohol Hand Sanitizer

- Ideal for critical hand hygiene situations where close or semi-closed quarters may increase the likelihood of outbreaks (eg. cruise ships, food manufacturing and long term care)
- Perfume and dye-free, hypoallergenic, alcohol based hand sanitizer, clinically proven to prevent skin dryness even during high frequency usage
- Broad spectrum, highly effective and non-tainting to food
- Compatible with latex, nitrile and vinyl gloves
- Quickly and easily spreads across the hands compared to gels. Leaves no sticky residue
- To be used as a preventative hand hygiene measure or as part of an outbreak measure



Description	Hazard Code	Order No.	Regular Price	SALE
400mL Pump Bottle	HAZ03	DI15IFC400ML	13.80	11.04

FL444

Deb InstantFOAM® Complete 1L TouchFREE Cartridge

- Ideal for critical hand hygiene situations where close or semi-closed quarters may increase the likelihood of outbreaks (eg. cruise ships, food manufacturing and long term care)
- Perfume and dye-free, hypoallergenic, alcohol based hand sanitizer, clinically proven to prevent skin dryness even during high frequency usage
- Broad spectrum, highly effective and non-tainting to food
- Compatible with latex, nitrile and vinyl gloves
- Quickly and easily spreads across the hands compared to gels. Leaves no sticky residue
- To be used as a preventative hand hygiene measure or as part of an outbreak measure



Description	Hazard Code	Order No.	Regular Price	SALE
1L TF-Cartridge, requires 1L TouchFREE dispenser Part # DI15AUTOINFCN	HAZ03	DI15IFC1TF	30.95	24.76

FL443

Deb Stoko® Sanitize 1000 Dispenser

- Manual white dispenser
- BioCote Protected
- Guaranteed for Life

NEW



Description	Order No.	Regular Price	SALE
1L Deb Stoko® dispenser, specially designed for 1L Hand Sanitizer Foam cartridges.	DI15SAN1LDS	1.00	FREE

FL442

Deb Stoko® Heavy Duty FOAM 3250 Dispenser

- Manual dispenser
- BioCote® Protected
- Guaranteed for Life

NEW



Description	Order No.	Regular Price	SALE
Dispenser for 3.25L Cartridges of GrittyFoam® (DI15GPF3LNA)	DI15GPF3LDQ	1.00	FREE

FL446

Solopol® GFX™ 3.25L Cartridge

- For use in industrial environments to remove medium to heavy soiling
- The World's Only Heavy Duty Power Foam Hand Cleanser with Grit
- One application (2.8 ml) of Solopol® GFX™ outcleans up to 3 applications (6 ml) of traditional pumice based hand cleaners
- Gentle, petroleum solvent-free formulation combined with non-abrasive biodegradable scrubbers leaves hands feeling smooth and firm
- No dangerous ingredients like petroleum distillates or pumice means your hands are guaranteed to feel better after use
- 42% more hand washes per liter and lasts nearly twice as long as traditional 2L heavy duty cleansers

NEW



Description	Hazard Code	Order No.	Regular Price	SALE
3.25L Cartridge, requires dispenser Part # DI15GPF3LDQ.	HAZ58	DI15GPF3LNA	48.31	38.65

FL445

Deb InstantFOAM® TouchFREE 1L Dispenser and Floor Stand, Hand Sanitizing Station

NEW



Description	Order No.	Regular Price	SALE
InstantFOAM® TouchFREE Dispenser	DI15AUTOINFCN	1.00	FREE
Floor Stand, Hand Sanitizing Station	DI1592752	11.00	8.80

FL434

PROTO 20" General Purpose Tool Box

Double Latch

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

MADE IN THE
USA

SAVE
25%



Model No.	Order No.	Regular Price	SALE
J9975-NA	KP4295010	63.11	47.35

MH496

Snap-on INDUSTRIAL BRANDS | WILLIAMS Hand Carry Tool Boxes

- Ruggedly constructed hand tool box
- Three compartment top tray with socket divider to keep small tools better organized and close at hand
- Padlock eye with slotted hasp provides security



Width (in.)	Length (in.)	Height (in.)	Color	Order No.	Regular Price	SALE
16	16	6-1/2	Red	KP31TB6116	42.66	32.00
21-1/4	21.25	12	Red	KP31TB6121	54.00	40.50

MH410

STANLEY Deep Professional Organizer

- High-impact, break-resistant, crystal-clear lid
- Unique lid design keeps storage cups locked in place
- Removable cup compartments in different sizes
- Large, deep cups for easy access to small items
- Extra-wide handle designed for gloved hands



Size (in.)	Model No.	Order No.	Regular Price	SALE
17-1/2 L x 14 W x 4-1/2 H	014710R	KP438000	24.62	19.70

MH507

Rubbermaid Commercial Products Heavy Duty Two Shelf Utility Carts

- Deep shelves securely hold contents
- Sturdy, structural foam construction
- 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	220.48	176.40
45-1/4 x 25-7/8 x 37-1/8	24 x 36	RZ554520	264.58	211.65

MH360

PRM PRO Cargo Tool Bags with Zip Closure

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



Length (in.)	Width (in.)	Height (in.)	Order No.	Regular Price	SALE
18	9	11	LC707697	33.13	19.90
24	9	12	LC707699	36.97	22.20

MH470

KENNEDY 8-Drawer Chest Model 526B

- 26-3/4"W x 8-1/2"D x 13-5/8"H
- Double panel side wall for strength
- Heavy duty plated side handles
- Wool felt-lined drawers and top till
- Five drawer dividers, spring clips hold in place
- Brown wrinkle finish
- Shipping weight 44 lbs.

KENNEDY
GUARANTEE

MADE IN THE
USA



Order No.	Regular Price	SALE
RX50526B	486.60	389.30

MH086

JET Service Carts

- Heavy duty plastic construction resists dents, chips, and rust
- Handle has built-in storage bins
- Round corners mean no sharp edges to nick walls or furniture
- Capacity: 550 lbs
- UPS dimensional weight shipping rates apply



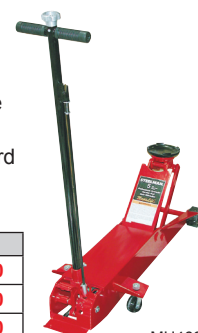
Size (in.)	Weight	Order No.	Regular Price	SALE
31-1/8 x 17-1/8	39 lbs	RS50140018	176.99	155.00
37-3/8 x 25-5/8	42 lbs.	RS50140019	219.99	188.00

While supplies last

MH252

STEELMAN Roll Around Jacks

- Wide stance and low center of gravity provide optimum stability under load stress
- Heavy gauge steel, sturdy frame
- Handle actuated release valve provides precise metered control of lowering speed
- Largest saddle in this category by ANSI standard



Capacity	Order No.	Regular Price	SALE
3-1/2 Ton	KE53647530	314.00	251.20
5 Ton	KE53647509	1044.00	835.20
10 Ton	KE53647510	1546.00	1236.80

MH466

Prices Effective January 1, 2020 Thru March 31, 2020

PRM PRO Shop Stool with Cushion Seat

- Vinyl black padded seat swivels 360°
- Chrome plated legs
- Seat diameter 13.7"
- Great for shop, warehouse, office, etc.
- Limited lifetime warranty against manufacturer defects
- Ships UPS

SAVE
45%



Approx. Seat Height (in.)	Order No.	Regular Price	SALE
29	RZ456000	50.15	28.00

MH476

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



Drawer Under Seat

Order No.	Regular Price	SALE
RZ455000	51.00	29.95

MH477

PRM PRO Swivel Tractor Seat

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



Approx. Seat Height	Order No.	Regular Price	SALE
18 to 22"	RZ454000	127.50	59.00

MH475

PRM PRO Heavy Duty Adjustable Stool

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

SAVE
45%



Approx. Seat Height	Order No.	Regular Price	SALE
26" to 31"	RZ451010	60.00	33.00

MH494

Vertil Ergonomic Workers Seat/Chairs

- Go from a low crouch position to a standing position
- Move the seat and hook it in to the horizontal bars
- Four rubber "shocks" under the seat mimic body movements
- Maintain natural posture position of the spine



Height (in.)	Seat Material	Description	Order No.	Regular Price	SALE
13-34"	Padded	With Footrest	RV54CPRO600	222.70	189.30
14-35"	Padded	Swivel Seat	RV54CPRO600S	240.10	204.10
9-18"	Padded	Portable with Swivel Casters	RV54CPRO100	150.10	127.60

MH439

Huot ToolScoot™ Carts

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



Tool Capacity	Weight	Order No.	Regular Price	SALE
48-30 Taper CNC Tooling	75 lbs	AP5330HU	556.50	473.00
48-40 Taper CNC Tooling	75 lbs	AP5340HU	501.90	426.60
36-50 Taper CNC Tooling	75 lbs	AP5350HU	576.00	460.80
48-HSK63A Tooling	79 lbs	AP5313970	550.00	467.50
36-HSK100A Tooling	79 lbs	AP5313980	550.00	467.50

MH474

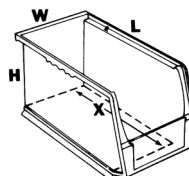
MATERIAL HANDLING

Akro-Mils Storage Bins*

Hang or Stack

- AkroBins hang securely from louvered panels
- Extra-wide stacking ledge assures secure stacking
- Anti-slide stop prevents loaded bins from shifting forward when stacked
- Large label slot for clear identification
- Reinforced ribs prevent bins from spreading when loaded
- Finger grips allow easy handling
- UPS dimensional weight shipping rates may apply on some sizes
- Price per each, not carton

**SAVE
40%**



Carton Qty.	Outside Dim. (L x W x H) (in.)	Inside Dim. (L x W x H x X) (in.)	Blue			Red			Stone			Yellow		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
24	5-3/8 x 4-1/8 x 3	4-3/4 x 3-7/16 x 2-13/16 x 4	SD5030210B	1.57	0.95	SD5030210R	1.57	0.95	SD5030210S	1.57	0.95	SD5030210Y	1.57	0.95
24	7-3/8 x 4-1/8 x 3	6-3/4 x 3-7/16 x 2-13/16 x 6	SD5030220B	2.86	1.70	SD5030220R	2.86	1.70	SD5030220S	2.86	1.70	SD5030220Y	2.86	1.70
12	10-7/8 x 5-1/2 x 5	10-1/4 x 4-3/8 x 4-3/4 x 9	SD5030230B	7.01	4.20	SD5030230R	7.01	4.20	SD5030230S	7.01	4.20	SD5030230Y	7.01	4.20
6	10-7/8 x 11 x 5	10-1/4 x 10 x 4-3/4 x 9	SD5030235B	10.81	6.50	SD5030235R	10.81	6.50	SD5030235S	10.81	6.50	SD5030235Y	10.81	6.50
6	10-3/4 x 8-1/4 x 7	10 x 6-9/16 x 6-3/4 x 8	SD5030239B	11.61	6.95	SD5030239R	11.61	6.95	SD5030239S	11.61	6.95	SD5030239Y	11.61	6.95
12	14-3/4 x 8-1/4 x 7	14 x 6-9/16 x 6-3/4 x 12	SD5030240B	13.72	8.25	SD5030240R	13.72	8.25	SD5030240S	13.72	8.25	SD5030240Y	13.72	8.25
6	14-3/4 x 16-1/2 x 7	14 x 14-3/4 x 6-3/4 x 12	SD5030250B	19.33	11.60	SD5030250R	19.33	11.60	SD5030250S	19.33	11.60	SD5030250Y	19.33	11.60

MH339

DURHAM MFG
Est. 1922

Sturdy All Steel Parts Bins

MADE IN THE USA

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



No. of Compartments	Width (in.)	Height (in.)	Weight	Order No.	Regular Price	SALE
40	33-3/4	23-7/8	50 lbs	SB5540B	145.86	116.70
72	33-3/4	42	80 lbs	SB5572B	225.42	180.35

† Ships By Truck

MH123

HARPER

Hand Trucks - General Purpose

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

MADE IN THE USA



Nose Plate	Overall Size	Tire	Order No.	Regular Price	SALE
17-1/2 x 13"	51 x 20"	8 x 2-1/4" Solid Rubber	RV3032T57	260.59	195.45
17-1/2 x 13"	51 x 21"	10 x 2-1/2" Solid Rubber	RV3032T84	299.92	224.95

MH386

Huot CNC Machine Mount Rack

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

MADE IN THE USA



Tool Capacity	Weight	Order No.	Regular Price	SALE
28-40 Taper Tooling	19 lbs	AP5356740	225.00	209.25

UPS Dimensional Shipping Rates Apply

MH446

Vestil

Fork Truck Hoisting Swivel Hooks

- Heavy-duty solid steel construction
- Double-fork style for use on both fork truck forks
- Usable fork pockets are 6-1/4"W x 1-3/4"H
- Frame includes a safety strap with snap hook to attach unit to carriage of fork truck
- Hooks are manufactured of forged steel and include a safety latch with galvanized finish
- Each unit features a zinc-plated finish



Size	Load Capacity	Order No.	Regular Price	SALE
24 x 13-7/8	4000 lbs	RV54LMHP4S	134.80	121.30
24 x 15	6000 lbs	RV54LMHP6S	159.90	143.90

MH363

Vestil Pallet Trucks

- Wide loop handle offers easy unit maneuverability
- Fingertip lever provides an easy lift, lower and neutral operation
- Suspension system has heavy-duty thrust bearing for long lasting use
- Lifetime lubricated bearings never need maintenance work



Length (in.)	Fork Size (in.)	Max. Lift Height (in.)	Turning Radius (in.)	Wheel Diameter (in.)	Load Capacity	Color	Order No.	Regular Price	SALE
61	48 x 20-5/8 x 7	6	51-1/2	Steer Caster: Poly-On-Steel 7 X 2 Load Roller: Steel 4-1/2 X 1-1/2	4000 lbs	Red	RV54PM42048LP	420.50	489.75
61	48 x 27 x 7	6	51-1/2	Steer Caster: Poly-On-Steel 7 X 2 Load Roller: Polyurethane 4 X 3	5500 lbs	Yellow	RV54PM52748Y	411.00	365.60
63	48 x 33 x 7	6	53-1/8	Steer Caster: Poly-On-Steel 7 X 2 Load Roller: Steel 4-1/2 X 1-1/2	4000 lbs	Red	RV54PM43348LP	442.00	440.40
64	48 x 27 x 7	6	52-1/4	Steer Caster: Poly-On-Steel 7 X 2 Load Roller: Steel 4-1/2 X 1-1/2	4000 lbs	Red	RV54PM42748LP	420.50	489.75

F.O.B. Factory - Ships by common carrier.

MH441

Prices Effective January 1, 2020 Thru March 31, 2020

PRM PRO Foreman's Open Style Desk

- Fully progressive, ball-bearing suspensions allows the drawer to glide easily and quietly
- Drawer comes with lock and keys
- In situations where you don't need a lockable storage cabinet, the added leg room permits the use of a stool for seated comfort
- Shelf can be used for storage of bulky items or as a footrest
- Ideal for the industrial workplace, businesses, schools and institutions



MADE IN THE
USA

Color	Width (in.)	Depth (in.)	Height (in.)	Weight	Order No.	Regular Price	SALE
Gray	34-1/2	29	53	97 lbs	RV8266050	591.00	354.60

Ships by Truck

MH407

Vertil 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	78.20	66.45
21 x 6.5 x 5.25	Steel	Extra Leverage	RV54DD10	83.30	70.80
21 x 6 x 4	Bronze	Non Sparking	RV54DD9NS	368.60	313.30

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 Ryton 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

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	33.65
Chemical-Based Hand Pump	HY507118	89.13	53.50

MH335

DURHAM MFG Est. 1922 Heavy Duty 14 Gauge Cabinets with Adjustable Shelves

- Heavy duty all welded 14 gauge steel
- 7 Gauge leaf hinges to prevent sagging
- 3-point cast steel locking handle with 3/8" diameter lock rods and provision for a padlock (padlock not provided)
- 6" High base/legs which provide access for forklifts: pre-punched holes allow for lagging to the floor (constructed of 3/16" steel)
- (2) Shelves bolt into place easily using fasteners provided and adjust on 2-1/4" centers

Height (in.)	Width (in.)	Depth (in.)	Load Capacity	No. of Shelves	Weight	Model No.	Order No.	Regular Price	SALE
42	36	24	1900 lbs per shelf	(2) adjustable shelves	272 lbs	3700-2S-95	SB5537002S95	1008.18	806.55
60	36	24	500 lbs per shelf	(3) adjustable shelves	347 lbs	3701-3S-95	SB5537013S95	1182.82	946.25
78	36	24	1900 lbs per shelf	(4) adjustable shelves	396 lbs	3702-4S-95	SB5537024S95	1317.44	1053.95

Ships by Common Carrier from Manufacturer



MH482

JOBOX Flammable Safety Cabinets

NEW

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



Width	Depth	Height	Number of Shelves	Order No.	Price	SALE
46-5/16"	20-25/32"	45-23/32"	1	KN6110125	1465.80	776.85
46-5/16"	24"	66-23/32"	2	KN6110134	1994.69	1057.20
46-5/16"	27-7/8"	66-23/32"	2	KN6110137	2205.22	1168.75

Ships common carrier • FOB from stocking location.

MH539

NATIONAL 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	50.60
20 Gallons (Heavy Duty Style)	NW551991020	168.00	109.20

UPS dimensional weight shipping rates apply

M505

PRM PRO Foreman's Closed Style Desk

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



MADE IN THE
USA

Color	Width (in.)	Depth (in.)	Height (in.)	Weight	Order No.	Regular Price	SALE
Gray	34-1/2	29	53	155 lbs	RV8266055	942.00	565.20

Ships by common carrier

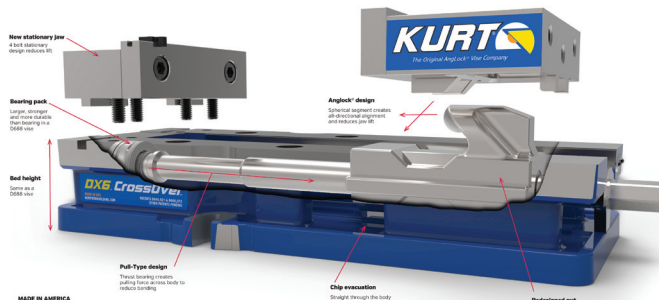
MH417

WORKHOLDING



DX Series Crossover™ Vises

- DX Crossover™ vises are a combination of AngLock®, Pull-Type and 4 bolt stationary jaw design.
- Hardened vise bed/jaw plates
- Semi-hard steel screw
- 80,000 psi ductile iron body, nut and movable jaw
- Bolts & locates on 40mm, 50mm and 2" grid patterns
- Accepts sine keys for alignment's (not included)
- Chip evacuation straight through the body
- Screw support held in place with snap rings
- GrooveLock® jaw plate and workstop included
- New brush seal design makes it easier to replace
- Includes chip guard
- Powder coat paint is long lasting and durable
- Lifetime Iron Clad Warranty



MADE IN THE
USA

Model No.	Size (in.)	Jaw Opening (in.)	Overall Dimension (LxWxH)	Weight	Order No.	Regular Price	SALE
DX4	4	6.5	12.5"L x 4.962"W x 3.365"H	30 lbs	HT80DX4	612.00	573.75
DX6	6	9	16.81"L x 6"W x 4.36"H	65 lbs	HT80DX6	682.29	614.06

WH721



MaxLock® 350 Multi-Axis AngLock® Vise

- Designed for the high demand of 5-axis machining
- Pull type jaw to decrease stationary deflection
- Modular design give it more flexi able to set-up jobs the way you need them
- Can mount on standard 2" grid or uses clamping slots
- Has options like two different size risers and four different lengths of screws
- With machine able jaws and fully guarded for chips this vise is a must have for your new 5-axis machining center or any multi-axis machine work you may have
- Supplied with 8" screw that allows 3.5" max jaw opening



MADE IN THE
USA

Order No.	Regular Price	SALE
HT80MX350	1965.63	1769.07

WH428

Jacobs® Ball Bearing Super Chucks

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



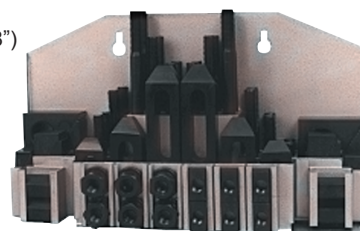
Model No.	Chuck Capacity (in.)	Mount	Key Used	Order No.	Regular Price	SALE
8-1/2N	.040 - 1/4	2JT	K30	HK5030209	163.93	118.03
11N	.040 - 3/8	2JT	K32	HK5030215	182.67	164.40
14N	.040 - 1/2	3JT	K3	HK5030221	255.37	229.83
16N	1/8 - 5/8	3JT	K4	HK5030227	293.13	263.82
18N	1/8 - 3/4	4JT	K4	HK5030233	440.86	396.77
20N	3/8 - 1	5JT	K5	HK5030239	593.68	534.31

WH165

NATIONAL 52 Pc. Clamping Kit

Sets Contains:

- 4 Coupling nuts
- 6 T-slot nuts
- 24 Studs (4 ea: 3, 4, 5, 6, 7, 8")
- 6 Serrated end clamps
- 6 Flange nuts
- 6 Step blocks
- Fitted plastic rack
- UPS Dimensional Weight shipping rates apply



Order No.	Regular Price	SALE
SG6012625CK	76.70	57.53

F.O.B. Warren, MI

WH317

Shoulder Eye Bolts

- Forged
- Manufactured to ASTM standards
- High tensile strength
- 1030 Carbon steel



MADE IN THE
USA

Thread Size (in.)	Thread Length (in.)	Eye Dia. (in.)	Order No.	Regular Price	SALE
1/4-20	1	3/4	SF50004	3.30	2.32
5/16-18	1-1/8	7/8	SF50005	3.44	2.42
3/8-16	1-1/4	1	SF50006	3.53	2.47
1/2-13	1-1/2	1-3/16	SF50008	4.59	3.22
5/8-11	1-3/4	1-3/8	SF50010	7.39	5.18
3/4-10	2	1-1/2	SF50012	9.60	6.73

Thread Size (in.)	Thread Length (in.)	Eye Dia. (in.)	Order No.	Regular Price	SALE
7/8-9	2-1/4	1-11/16	SF50014	13.38	9.37
1-8	2-1/2	1-13/16	SF50016	17.39	12.17
1-1/4-7	3	2-3/16	SF50020	35.14	24.60
1-1/2-6	3-1/2	2-9/16	SF50024	61.04	42.73
2-4-1/2	4	3-3/8	SF50032	141.96	99.37

CF055

MADE IN THE USA Threaded Rod

Steel-Oil Plain:

- Low carbon AISI C-1010 to C-1020 type steel
- Coarse or Fine thread
- Zinc Plated coated

B7 Alloy Steel:

- Made from alloy steel 4140B-7
- Manufactured with chromium molybdenum for high strength and through hardness

304 Stainless:

- Corrosion resistance (18-8 stainless steel)
- Designed for use in chemical, marine, and other environments where corrosion protection is needed
- Non-magnetic
- Sold in 3 Foot Lengths

Material - B-7 Alloy			
Thread	Order No.	Regular Price	SALE
1/2-13	ME50A0813	9.04	6.34
1/4-20	ME50A0420	2.32	1.86
1-1/2-6	ME50A2406	83.92	58.77
1-1/4-7	ME50A2007	58.11	40.71
1-1/8-7	ME50A1807	46.04	32.24
1-8	ME50A1608	36.45	25.52
3/4-10	ME50A1210	20.26	14.21
3/8-16	ME50A0616	6.48	4.55
5/16-18	ME50A0518	3.65	2.56
5/8-11	ME50A1011	13.84	9.70
7/8-9	ME50A1409	27.86	19.53

Material - Stainless Steel			
Thread	Order No.	Regular Price	SALE
1/2-13	ME50S0813	13.93	10.46
1/2-20	ME50S0820	17.03	12.79
1/4-20	ME50S0420	3.30	2.48
1/4-28	ME50S0428	3.96	3.00
1-8	ME50S1608	60.52	45.41
3/4-10	ME50S1210	32.43	24.34
3/4-16	ME50S1216	39.29	29.48
3/8-16	ME50S0616	7.92	5.96
3/8-24	ME50S0624	9.42	7.09
5/16-18	ME50S0518	5.41	4.09
5/16-24	ME50S0524	6.34	4.76
5/8-11	ME50S1011	22.86	17.18
5/8-18	ME50S1018	27.02	20.29
7/8-9	ME50S1409	45.96	34.50

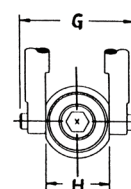
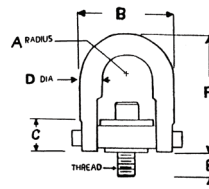
Material - Steel-Oil Plain			
Thread	Order No.	Regular Price	SALE
10-24	ME500124	1.18	0.84
10-32	ME500132	2.76	1.96
1/4-20	ME500420	1.30	0.91
1/4-28	ME500428	2.36	1.68
5/16-18	ME500518	1.80	1.26
5/16-24	ME500524	2.82	2.00
3/8-16	ME500616	2.33	1.65
3/8-24	ME500624	4.12	2.91
7/16-14	ME500714	3.10	2.17
7/16-20	ME500720	3.29	2.31
1/2-13	ME500813	3.97	2.80
1/2-20	ME500820	5.74	4.03
5/8-11	ME501011	6.14	4.31
5/8-18	ME501018	8.65	6.06
3/4-10	ME501210	8.90	6.23
3/4-16	ME501216	16.09	11.27
7/8-9	ME501409	14.63	10.99
7/8-14	ME501414	18.50	13.88
1-8	ME501608	20.30	15.23
1-14	ME501614	23.05	17.29
1-1/8-7	ME501807	20.75	15.56
1-1/8-12	ME501812	27.68	20.78
1-1/4-7	ME502007	46.75	35.06
1-1/4-12	ME502012	41.97	31.50
1-3/8-6	ME502206	41.66	31.28
1-1/2-6	ME502406	49.48	37.13
1-1/2-12	ME502412	58.99	44.25

Material - Zinc Plated			
Thread	Order No.	Regular Price	SALE
1/2-13	ME5037296	4.90	3.26
1/2-20	ME5037316	7.35	5.51
1/4-20	ME5037168	2.39	1.80
1/4-28	ME5037188	2.98	2.25
10-24	ME5037136	1.09	2.40
10-32	ME5037148	1.30	0.98
1-1/2-12	ME5037624	94.47	55.80
1-1/2-6	ME5037566	56.82	42.64
1-1/4-12	ME5037548	52.51	39.41
1-1/4-7	ME5037512	41.38	22.09
1-1/8-12	ME5037504	42.72	32.06
1-1/8-7	ME5037480	29.73	22.31
1-14	ME5037464	35.28	26.48
1-3/8-6	ME5037544	47.74	35.81
1-8	ME5037448	22.91	17.21
3/4-10	ME5037388	10.57	7.95
3/4-16	ME5037408	15.44	11.59
3/8-16	ME5037232	2.48	1.88
3/8-24	ME5037252	5.08	3.83
5/16-18	ME5037200	3.49	2.63
5/16-24	ME5037220	3.78	2.85
5/8-11	ME5037356	6.67	5.03
5/8-18	ME5037376	11.16	8.40
7/16-14	ME5037264	3.35	2.51
7/16-20	ME5037284	6.14	4.61
7/8-14	ME5037436	28.02	21.04
7/8-9	ME5037420	17.76	13.35

WH652

360° Swivel Hoist Rings

- Replaces conventional eyebolts
- 5:1 Safety factor
- Pivots 180°
- 100% Magnetic inspected
- Black oxide
- Precision machined made AISI 4140 aircraft quality steel



Rating Load	(A) Radius (in.)	(B) External Radius (in.)	(C) Base Height (in.)	(D) Dia. (in.)	(E) Thread Length (in.)	(F) Height (in.)	Size (in.)	(G) Overall Width (in.)	(H) Base Dia. (in.)	Torque (ft/lbs)	Weight	Order No.	Regular Price	SALE
800 lbs	.43	1.61	.71	3/8	.54	2.67	5/16-18	1.84	1.00	.7	5 oz	SF52020	80.90	68.09
1000 lbs	.43	1.61	.71	3/8	.54	2.67	3/8-16	1.84	1.00	12	5 oz	SF52024	80.90	68.09
2500 lbs	.70	2.40	.93	1/2	1.07	3.77	1/2-13	2.58	1.49	28	1 lb	SF52032	98.45	82.86
2500 lbs	.88	3.25	1.22	3/4	.78	4.78	1/2-13	3.52	1.99	28	2 lbs 5 oz	SF52032A	98.45	82.86
2500 lbs	.88	3.25	1.22	3/4	1.03	4.78	1/2-13	3.52	1.99	28	2 lbs 5 oz	SF52032B	98.45	82.86
2500 lbs	.88	3.25	1.22	3/4	1.28	4.78	1/2-13	3.52	1.99	28	2 lbs 5 oz	SF52032C	98.45	82.86
4000 lbs	.88	3.25	1.22	3/4	.78	4.78	5/8-11	3.52	1.99	60	2 lbs 7 oz	SF52040	98.45	82.86
4000 lbs	.88	3.25	1.22	3/4	1.03	4.78	5/8-11	3.52	1.99	60	2 lbs 7 oz	SF52040A	98.45	82.86
5000 lbs	.88	3.25	1.22	3/4	1.03	4.78	3/4-10	3.52	1.99	100	2 lbs 9 oz	SF52048	98.45	82.86
5000 lbs	.88	3.25	1.22	3/4	1.53	4.78	3/4-10	3.52	1.99	100	2 lbs 9 oz	SF52048A	98.45	82.86
7000 lbs	1.40	4.80	1.71	1.00	1.04	6.52	3/4-10	5.14	3.00	100	6 lbs	SF52048B	215.10	181.02

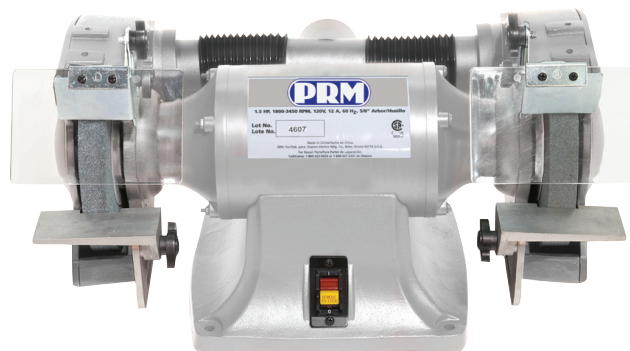
CF252

PRM Heavy Duty Bench Grinders

- Heavy duty bench grinders feature heavy duty construction with powerful, long-life motors for use all day
- Capacitor motors supply the extra current required during start-up and running under load

Features:

- Adjustable tool rest
- Adjustable spark arrestors
- Adjustable eye shields
- Locking toggle on/off switch
- Single port dust collection system (8" & 10" Models Only)
- One 36 grit and one 60 grit grinding wheel
- CSA listed, OSHA compliant
- 1 Year parts warranty



Model No.	Wheel Size (in.)	RPM	Motor	Weight	Order No.	Regular Price	SALE
6	6 x 3/4 x 1/2	3450	1/3HP 115/230V 1PH	32 lbs	PR736	114.12	102.74
8	8 x 1 x 5/8	3450	3/4HP 115/230V, 1PH	63 lbs	PR738	203.25	182.93
10	10 x 1 x 1	1725	1HP 115/230V 1PH	121 lbs	PR7310	371.52	334.40

F.O.B. Warren, MI • Not CSA approved

M1342

ACER 9" x 49" Table Electronic Variable Speed Milling Machines

Features:

- 3 HP Spindle Vector A/C Inverter Drive Motor
- Toshiba A/C Frequency Inverter Control
- Electro/mechanical Brake
- Precision Ball Bearing Spindle
- Chrome Plated & Precision Ground Spindle Quill
- Table surface and all ways on machine are hardened and ground to HRC-52 hardness
- Turcite B lining on saddle ways make X & Y movement smooth and easy
- Rigid Meehanite GA-50 Casting
- One Shot Lubricator, Protective automotive paint ensures life long appearance



Model No.	Table Size (in.)	X-Axis (Table Travel) (in.)	Y-Axis (Saddle Travel) (in.)	Z-Axis (Knee Travel) (in.)	Spindle Taper	Spindle Speeds	Motor	Weight	Order No.	Regular Price	SALE
3EVSII49	9 x 49	34	12	16	R-8	EVS-AC Inverter 60 to 4500	3HP, 220V, 3PH	2450 lbs	RA603EVSII49	8950.00	8323.50
3EVSII494	9 x 49	34	12	16	R-8	EVS-AC Inverter 60 to 4500	3HP, 440V, 3PH	2450 lbs	RA603EVSII494	9250.00	8602.50

F.O.B. Orange, CA • Ships by Truck

M1158



12 Ton Capacity Hydraulic Shop Presses

Features:

- All welded steel construction
- Heavy duty return springs for fast ram retraction
- Reinforced head plate
- Bed plates, bearing punch and bearing shield included as standard equipment
- 1712BP Bench Top Model
- 1 Year Warranty

MADE IN THE
USA



Model No.	Height (in.)	Inside Width (in.)	Base Width (in.)	Ram Travel (in.)	Weight	Order No.	Regular Price	SALE
1712BP	37	20	24	5	95 lbs	RK851712BP	365.00	310.25
1712	61-3/4	20	24	5	200 lbs	RK851712	498.50	423.73

F.O.B. Warren, MI • Ships By Truck

M1477

PALMGREN^{INC} Heavy Duty 16 Speed Step Pulley Drill Presses

Features:

- Fully enclosed spindle for accurate drilling operations
- Max. spindle run out of .0005"
- Extended quill travel for deep hole drilling
- LED readout of spindle speed and quill travel
- Rack and pinion table raiser
- Precision ground t-slotted work table with coolant trough
- Table tilts 45 right/left and rotates 360 around the column
- Quick change vertical depth stop
- Heavy cast metal 3 spoke quill feed handle with ergonomic speed feed handle
- Front mounted paddle type power switch
- Includes chuck with safety-eject key and arbor
- 3 Year Warranty



Type - Bench Model Drill Press												
Model No.	Drilling Cap. (in.)	Spindle Travel (in.)	Spindle Taper	Swing (in.)	Table Size (in.)	Motor	Range of Speeds (12)	Column Dia. (in.)	Weight	Order No.	Regular Price	SALE
80150	1/2	3-1/4	33JT	13-1/4	8-5/8 x 9-7/16	1/3HP, 120V	(16) 244-3386	1.58	123 lbs	JB5580150	540.00	423.00
9680157	5/8	5	2MT	15	11-1/2 Xx13	1/2HP, 120V	(16) 138-3476	2-9/16	185 lbs	JB5580155	1028.00	810.90

Type - Floor												
Model No.	Drilling Cap. (in.)	Spindle Travel (in.)	Spindle Taper	Swing (in.)	Table Size (in.)	Motor	Range of Speeds (12)	Column Dia. (in.)	Weight	Order No.	Regular Price	SALE
9680158	5/8	5	2MT	15	11-1/2 x 13	1/2HP, 120/240V	(16) 138 - 3476	2-7/8	162 lbs	JB5580156	1092.00	846.00
9680207	1-1/4	6	3MT	20	19-1/4 x 18-3/4	1-1/2HP, 120/240V	(16) 120 - 3605	3-5/8	274 lbs	JB5580207	1666.00	1506.00

F.O.B. Warren, MI • Ships by truck • NOT CSA Approved

M1519

Prices Effective January 1, 2020 Thru March 31, 2020

PRM^{PRO} Flat Hand Files - Professional Grade

- Excellent for a "Hogging" or rapid stock removal
- Flat files are double cut on both sides
- Single cut on the edges and taper towards the top
- Three cuts: Bastard for coarse filing, 2nd cut for moderate stock removal and Smooth for finishing
- 100% warranty against manufactures defect

SAVE

35%

OR MORE

NEW



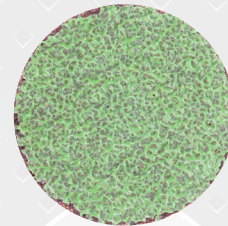
Overall Length	2nd Cut			Smooth			Bastard		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	-	-	-	PR0410504	7.35	4.41	PR0410404	4.80	2.88
6"	PR0410306	5.75	3.45	PR0410506	6.65	3.99	PR0410406	5.50	3.30
8"	PR0410308	7.20	4.32	PR0410508	8.65	5.19	PR0410408	6.90	4.14
10"	PR0410310	9.65	5.79	PR0410510	11.50	6.90	PR0410410	9.15	5.49
12"	PR0410312	15.40	9.24	PR0410512	15.00	9.00	PR0410412	11.90	7.14
14"	PR0410314	16.60	9.96	PR0410514	23.25	13.95	PR0410414	19.35	11.61
16"	-	-	-	-	-	-	PR0410416	29.00	17.40

HT2272



Neon R766 Cloth Discs

- Our unique premium abrasive and aluminum oxide blend provides aggressive cut and longer life than competitive aluminum oxide materials
- The new resin system improves base adhesion and reduces grain shedding
- Durable, Y-wt. 2-ply polyester backing stands up to demanding applications
- New grain coating ensures life and faster cut rate



Dia. (in.)	Grit	Std. Pkg.	TR			TS		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1-1/2	36	100	MH61D0118977	0.61	0.52	MH61D0118972	0.61	0.52
1-1/2	40	100	MH61D0118978	0.60	0.51	MH61D0118973	0.60	0.51
1-1/2	50	100	MH61D0118979	0.56	0.51	MH61D0118974	0.60	0.51
1-1/2	60	100	MH61D0118980	0.54	0.49	MH61D0118975	0.54	0.49
1-1/2	80	100	MH61D0118981	0.54	0.49	MH61D0118976	0.54	0.49
2	24	100	MH61D0219013	0.89	0.81	MH61D0219011	0.89	0.81
2	36	100	MH61D0219005	0.82	0.77	MH61D0218999	0.82	0.77
2	40	100	MH61D0219006	0.76	0.70	MH61D0219000	0.76	0.73
2	50	100	-	-	-	MH61D0219001	0.76	0.68
2	60	100	MH61D0219008	0.74	0.70	MH61D0219003	0.74	0.70

Dia. (in.)	Grit	Std. Pkg.	TR			TS		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
2	80	100	MH61D0219009	0.73	0.68	MH61D0219004	0.73	0.68
3	24	50	MH61D0319026	1.21	1.09	MH61D0319020	1.21	1.09
3	36	50	MH61D0319027	1.15	1.09	MH61D0319021	1.15	1.05
3	40	50	MH61D0319028	1.12	1.06	MH61D0319022	1.14	1.03
3	50	50	MH61D0319029	1.08	1.01	MH61D0319023	1.06	0.96
3	60	50	MH61D0319030	1.06	0.99	MH61D0319024	1.06	0.99
3	80	50	MH61D0319031	0.99	0.94	MH61D0319025	0.99	0.90

1-1/2" Holder: TS - MH61-A43200, TR - MH61-A47500

2" Holder: TS - MH61-A43210, TR - MH61-A455103

3" Holder: TS - MH61-A43225, TR - MH61-55105

A570



29 Pc. Jobber Length Drill Sets

- 1/16" - 1/2" by 64ths
- High speed steel or M42 8% cobalt
- Complete with index

Type	Drill Point	Finish	Order No.	Regular Price	SALE
HSS General Purpose	118° Standard Point	Bright Finish	MT1218144	132.99	113.04
HSS General Purpose	118° Standard Point	Surface Treated	MT1218101	132.99	113.04
HSS Heavy Duty	135° Split Point	Gold & Black Finish	MT1218182	141.73	113.38
Cobalt Heavy Duty	135° Split Point	Straw Finish	MT1218166	301.92	211.34
Left Hand HSS General Purpose	118° Standard Point	Bright Finish-LH	MT1218005	316.92	269.38



CT276

Prices Effective January 1, 2020 Thru March 31, 2020

NOT ALL ITEMS EXACTLY AS PICTURED. NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS.

WE RESERVE THE RIGHT TO LIMIT QUANTITIES. ITEMS AVAILABLE WHILE SUPPLIES LAST.