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FEATURING



 **RAPIDKUT**

HIGH PERFORMANCE TAPS

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Starrett

8 STARRETT ANGLE METER

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Honeywell
UVEX

HONEYWELL UVEX PROTEGE

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PRICES EFFECTIVE JULY 1, 2023 THROUGH SEPTEMBER 30, 2023



CUTTING TOOLS

INTERNAL TOOL Max Groove Carbide

Grooving Tools

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



Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Cutting Width (CW)	Minimum Bore Diameter (DMIN)	Cutting Length	Cutting Depth Maximum (CDX)	Order No.	Regular Price	SALE
1/4"	2-1/2"	0.017" / 0.018"	1/4"	0.050"	1/4"	GE97221100	60.02	56.50
1/4"	2-1/2"	0.017" / 0.018"	1/4"	0.050"	3/8"	GE97221105	60.02	56.50
1/4"	2-1/2"	0.017" / 0.018"	1/4"	0.050"	1/2"	GE97221110	60.02	56.50
1/4"	2-1/2"	0.017" / 0.018"	1/4"	0.050"	5/8"	GE97221115	60.02	56.50
1/4"	2-1/2"	0.025" / 0.026"	1/4"	0.050"	1/4"	GE97221120	60.02	56.50
1/4"	2-1/2"	0.025" / 0.026"	1/4"	0.050"	3/8"	GE97221125	60.02	56.50
1/4"	2-1/2"	0.025" / 0.026"	1/4"	0.050"	1/2"	GE97221130	60.02	56.50
1/4"	2-1/2"	0.025" / 0.026"	1/4"	0.050"	5/8"	GE97221135	60.02	56.50
1/4"	2-1/2"	0.030" / 0.031"	1/4"	0.050"	1/4"	GE97221140	60.02	56.50
1/4"	2-1/2"	0.030" / 0.031"	1/4"	0.050"	3/8"	GE97221145	60.02	56.50
1/4"	2-1/2"	0.030" / 0.031"	1/4"	0.050"	1/2"	GE97221150	60.02	56.50
1/4"	2-1/2"	0.030" / 0.031"	1/4"	0.050"	5/8"	GE97221155	60.02	56.50
1/4"	2-1/2"	0.062" / 0.064"	1/4"	0.050"	1/4"	GE97221160	60.02	56.50
1/4"	2-1/2"	0.062" / 0.064"	1/4"	0.050"	3/8"	GE97221165	60.02	56.50
1/4"	2-1/2"	0.062" / 0.064"	1/4"	0.050"	1/2"	GE97221170	60.02	56.50
1/4"	2-1/2"	0.062" / 0.064"	1/4"	0.050"	5/8"	GE97221175	60.02	56.50
1/4"	2-1/2"	0.093" / 0.095"	1/4"	0.050"	1/4"	GE97221180	60.02	56.50
1/4"	2-1/2"	0.093" / 0.095"	1/4"	0.050"	3/8"	GE97221185	60.02	56.50
1/4"	2-1/2"	0.093" / 0.095"	1/4"	0.050"	1/2"	GE97221190	60.02	56.50
1/4"	2-1/2"	0.093" / 0.095"	1/4"	0.050"	5/8"	GE97221195	60.02	56.50
1/4"	2-1/2"	0.125" / 0.127"	1/4"	0.050"	1/4"	GE97221200	60.02	56.50
1/4"	2-1/2"	0.125" / 0.127"	1/4"	0.050"	3/8"	GE97221205	60.02	56.50
1/4"	2-1/2"	0.125" / 0.127"	1/4"	0.050"	1/2"	GE97221210	60.02	56.50
1/4"	2-1/2"	0.125" / 0.127"	1/4"	0.050"	5/8"	GE97221215	60.02	56.50
5/16"	2-1/2"	0.033" / 0.034"	0.312"	0.100"	1/4"	GE97221220	74.89	70.50
5/16"	2-1/2"	0.033" / 0.034"	0.312"	0.100"	3/8"	GE97221225	74.89	70.50
5/16"	2-1/2"	0.033" / 0.034"	0.312"	0.100"	1/2"	GE97221230	74.89	70.50
5/16"	2-1/2"	0.033" / 0.034"	0.312"	0.100"	5/8"	GE97221235	74.89	70.50
5/16"	2-1/2"	0.038" / 0.039"	0.312"	0.100"	1/4"	GE97221240	74.89	70.50
5/16"	2-1/2"	0.038" / 0.039"	0.312"	0.100"	3/8"	GE97221245	74.89	70.50
5/16"	2-1/2"	0.038" / 0.039"	0.312"	0.100"	1/2"	GE97221250	74.89	70.50
5/16"	2-1/2"	0.038" / 0.039"	0.312"	0.100"	5/8"	GE97221255	74.89	70.50
5/16"	2-1/2"	0.062" / 0.064"	0.312"	0.100"	1/2"	GE97221260	74.89	70.50
5/16"	2-1/2"	0.062" / 0.064"	0.312"	0.100"	3/4"	GE97221265	74.89	70.50
5/16"	2-1/2"	0.062" / 0.064"	0.312"	0.100"	1"	GE97221270	74.89	70.50
5/16"	2-1/2"	0.093" / 0.095"	0.312"	0.100"	1/2"	GE97221275	74.89	70.50
5/16"	2-1/2"	0.093" / 0.095"	0.312"	0.100"	3/4"	GE97221280	74.89	70.50
5/16"	2-1/2"	0.093" / 0.095"	0.312"	0.100"	1"	GE97221285	74.89	70.50
5/16"	2-1/2"	0.125" / 0.127"	0.312"	0.100"	1/2"	GE97221290	74.89	70.50
5/16"	2-1/2"	0.125" / 0.127"	0.312"	0.100"	3/4"	GE97221295	74.89	70.50
5/16"	2-1/2"	0.125" / 0.127"	0.312"	0.100"	1"	GE97221300	74.89	70.50
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	1/4"	GE97221305	98.62	93.05
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	3/8"	GE97221310	98.62	93.05
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	1/2"	GE97221315	98.62	93.05
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	3/4"	GE97221320	98.62	93.05
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	1"	GE97221325	98.62	93.05
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	1-1/4"	GE97221330	98.62	93.05
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	1/4"	GE97221335	98.62	93.05
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	3/8"	GE97221340	98.62	93.05
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	1/2"	GE97221345	98.62	93.05
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	3/4"	GE97221350	98.62	93.05

Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Cutting Width (CW)	Minimum Bore Diameter (DMIN)	Cutting Length	Cutting Depth Maximum (CDX)	Order No.	Regular Price	SALE
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	1"	GE97221355	98.62	93.05
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	1-1/4"	GE97221360	98.62	93.05
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	1/4"	GE97221365	98.62	93.05
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	3/8"	GE97221370	98.62	93.05
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	1/2"	GE97221375	98.62	93.05
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	3/4"	GE97221380	98.62	93.05
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	1"	GE97221385	98.62	93.05
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	1-1/4"	GE97221390	98.62	93.05
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	1/4"	GE97221395	98.62	93.05
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	3/8"	GE97221400	98.62	93.05
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	1/2"	GE97221405	98.62	93.05
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	3/4"	GE97221410	98.62	93.05
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	1"	GE97221415	98.62	93.05
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	1-1/4"	GE97221420	98.62	93.05
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	1/4"	GE97221425	98.62	93.05
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	3/8"	GE97221430	98.62	93.05
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	1/2"	GE97221435	98.62	93.05
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	3/4"	GE97221440	98.62	93.05
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	1"	GE97221445	98.62	93.05
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	1-1/4"	GE97221450	98.62	93.05
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	1/4"	GE97221455	98.62	93.05
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	3/8"	GE97221460	98.62	93.05
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	1/2"	GE97221465	98.62	93.05
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	3/4"	GE97221470	98.62	93.05
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	1"	GE97221475	98.62	93.05
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	1-1/4"	GE97221480	98.62	93.05
3/8"	2-1/2"	0.093" / 0.095"	3/8"	0.100"	1/2"	GE97221485	98.62	93.05
3/8"	2-1/2"	0.093" / 0.095"	3/8"	0.100"	3/4"	GE97221490	98.62	93.05
3/8"	2-1/2"	0.093" / 0.095"	3/8"	0.100"	1"	GE97221495	98.62	93.05
3/8"	2-1/2"	0.125" / 0.127"	3/8"	0.100"	1/2"	GE97221500	98.62	93.05
3/8"	2-1/2"	0.125" / 0.127"	3/8"	0.100"	3/4"	GE97221505	98.62	93.05
3/8"	2-1/2"	0.125" / 0.127"	3/8"	0.100"	1"	GE97221510	98.62	93.05
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	1/2"	GE97221515	132.38	119.10
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	3/4"	GE97221520	132.38	118.05
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	1"	GE97221525	132.38	118.05
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	1-1/4"	GE97221530	132.38	118.05
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	1-1/2"	GE97221535	132.38	118.05
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	1/2"	GE97221540	132.38	118.05
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	3/4"	GE97221545	132.38	118.05
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	1"	GE97221550	132.38	118.05
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	1-1/4"	GE97221555	132.38	118.05
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	1-1/2"	GE97221560	132.38	118.05
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	1/2"	GE97221565	132.38	118.05
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	3/4"	GE97221570	132.38	118.05
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	1"	GE97221575	132.38	118.05
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	1-1/4"	GE97221580	132.38	118.05
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	1-1/2"	GE97221585	132.38	118.05
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	1/2"	GE97221590	132.38	118.05
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	3/4"	GE97221595	132.38	118.05
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	1"	GE97221600	132.38	118.05
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	1-1/4"	GE97221605	132.38	118.05
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	1-1/2"	GE97221610	132.38	118.05
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	1/2"	GE97221615	132.38	118.05
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	3/4"	GE97221620	132.38	118.05
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	1"	GE97221625	132.38	118.05
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	1-1/4"	GE97221630	132.38	118.05
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	1-1/2"	GE97221635	132.38	118.05
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	1/2"	GE97221640	132.38	118.05
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	3/4"	GE97221645	132.38	118.05
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	1"	GE97221650	132.38	118.05
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	1-1/4"	GE97221655	132.38	118.05
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	1-1/2"	GE97221660	132.38	118.05

Severance Carbide Inside Deburring Cutters

Shear Tooth Design

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

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	90 Degrees			60 Degrees		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/32"	3/32"	1-1/2"	BC5420680	18.90	13.95	BC5420620	18.90	13.95
1/8"	1/8"	1-1/2"	BC5422249	24.62	17.95	BC5422250	24.62	17.95
3/16"	3/16"	2"	BC5420682	36.48	27.95	BC5420622	36.48	27.95
1/4"	1/4"	2"	BC54222412	46.47	34.95	BC5422411	46.47	34.95
5/16"	1/4"	2-1/4"	BC5420688	47.49	33.95	BC5420628	47.49	33.95
3/8"	1/4"	2-1/4"	BC5420689	50.74	38.95	BC5420629	50.74	38.95
1/2"	1/4"	2-1/4"	BC5420693	53.72	37.95	BC5420633	53.72	37.95
1/2"	3/8"	2-1/8"	BC5420694	53.72	37.95	BC5420634	53.72	37.95
5/8"	1/4"	2-3/8"	BC5420699	59.49	41.95	BC5420639	59.49	41.95
5/8"	3/8"	2-3/8"	BC5420700	59.49	41.95	BC5420640	59.49	41.95
3/4"	1/2"	2-11/16"	BC5420704	99.98	74.95	BC5420644	99.98	74.95
1"	1/2"	2-13/16"	BC5420710	199.99	140.95	BC5420650	199.99	140.95

10572

Uniflute® Countersinks

High Speed Steel

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



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	82 Degrees			90 Degrees		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	1/4"	2"	BC7061056	14.30	10.95	BC7061061	14.30	10.95
3/8"	1/4"	2"	BC7061081	16.24	11.95	BC7061086	16.24	11.95
1/2"	1/4"	2"	BC7061106	19.79	14.95	BC7061111	19.79	14.95
5/8"	1/4"	2-1/4"	BC7061131	26.42	19.95	BC7061136	26.42	19.95
3/4"	1/2"	2-3/4"	BC7061156	38.57	28.95	BC7061161	38.57	28.95
1"	1/2"	2-3/4"	BC7061181	64.25	48.95	BC7061186	64.25	48.95
1-1/4"	1/2"	3"	BC7061206	125.69	94.95	BC7061211	125.69	94.95
1-1/2"	3/4"	3-1/2"	BC7061221	170.17	127.95	BC7061226	170.17	127.95

†Straight shank with tang drive.

23769

PRO CUT Single Flute Countersinks

High Speed Steel 60°, 82° & 90°



Cutting Diameter (DC)	Overall Length (OAL)	60 Degrees			82 Degrees			90 Degrees		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16"	1-1/2"	BC52RF360	7.40	3.95	BC52RF382	7.40	3.95	BC52RF390	7.34	3.95
1/4"	2"	BC52RF460	7.88	3.95	BC52RF482	7.88	3.95	BC52RF490	7.88	3.95
5/16"	2"	BC52RF560	8.15	3.95	BC52RF582	8.15	3.95	BC52RF590	8.15	3.95
3/8"	2"	BC52RF660	8.87	4.50	BC52RF682	8.87	4.50	BC52RF690	8.87	4.50
1/2"	2"	BC52RF860	11.58	5.95	BC52RF882	11.58	5.95	BC52RF890	11.58	5.95
5/8"	2-1/2"	BC52RF1060	15.84	7.95	BC52RF1082	15.84	7.95	BC52RF1090	15.84	7.95
3/4"	2-3/4"	BC52RF1260	21.48	10.95	BC52RF1282	21.48	10.95	BC52RF1290	21.48	10.95
7/8"	2-3/4"	BC52RF1460	34.76	17.95	BC52RF1482	35.11	17.95	BC52RF1490	35.11	17.95
1"	2-3/4"	BC52RF1660	37.69	19.95	BC52RF1682	37.69	19.95	BC52RF1690	37.69	19.95
1-1/4"	3"	BC52RF2060	57.33	29.95	BC52RF2082	57.33	29.95	BC52RF2090	57.33	29.95
1-1/2"	3-3/8"	BC52RF2460	89.27	46.95	BC52RF2482	90.10	46.95	BC52RF2490	90.10	46.95
2"	3-3/4"	BC52RF3260	146.15	76.95	BC52RF3282	147.53	76.95	BC52RF3290	147.53	76.95

24491



Replacement Blades



Product Name	Blade Type	Shaviv Equivalent	Order No.	Regular Price	SALE
Deburring Blade, for Steel, Plastic and Aluminum	B10CO	None	FN55B10CO	3.48	2.50
Deburring Blade-TiN Coated, HSS-HD, for Very Small Holes	S150-TiN	None	FN55BK3112	5.39	4.50
N1 Right-Handed HSS Deburring Swivel Blade Deburring Blade for Steel, Plastic and Aluminum.	N1	B10	FN55N1	2.72	1.75
Deburring Blade, for Steel, Plastic and Aluminum	N1C	B10C	FN55N1C	9.78	6.95
Deburring Blade, for Steel, Plastic and Aluminum	N1D	None	FN55N1D	16.56	13.95
Deburring Blade, left handed, for Steel, Plastic and Aluminum	N1LH	None	FN55N1LH	3.85	2.50
Deburring Blade, for High Wear Materials	N1TiN	B10P	FN55N1TiN	3.55	2.95
Deburring Blade, for Brass and Cast Iron	N2	B20	FN55N2	2.73	1.95
Deburring Blade, for Brass and Cast Iron	N2C	B20C	FN55N2C	9.80	6.95
Deburring Blade, to Remove External & Internal Burrs	N3	B30	FN55N3	3.51	2.25
Deburring Blade, for Inside Cross Holes & Back	N6	B60	FN55N6	5.27	3.95
Deburring Blade, for Steel, Aluminum and Plastic	S10	E100	FN55S10	3.64	2.50
NOGA S100 COBALT HD BLADE	S100	None	FN55S100	4.14	2.95
Deburring Blade, HSS-HD, for Small Holes	S101	None	FN55S101	3.70	2.50
Deburring Blade, left handed, for Small Holes	S101LH	None	FN55S101LH	4.36	2.95
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10D	None	FN55S10D	17.02	11.95
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10LH	None	FN55S10LH	4.92	3.50
NOGA S10TiN HD BLADE TiN	S10TiN	E100P	FN55S10TiN	4.58	2.95
NOGA S150 HEAVY DUTY	S150	None	FN55S150	4.13	2.95
Deburring Blade, HSS-HD, for Brass and Cast Iron	S20	E200	FN55S20	3.90	2.50
Deburring Blade, for Fine Point for Brass & Cast Iron	S202	None	FN55S202	4.13	2.95
Deburring Blade, for Removing External & Internal Burrs	S30	E300	FN55S30	3.93	2.75
Deburring Blade, HSS-HD, for Straight Edges	S35	E350	FN55S35	3.98	2.75
Deburring Blade, for Inside Cross Hole & Back	S60	E600	FN55S60	5.55	3.95

24088

CUTTING TOOLS



Countersink, Holders and Blades



Included	Order No.	Regular Price	SALE
NogaGrip 3 Handle / C Holder / C20 Countersink Blade (20 mm)	FN55NG3100	43.75	29.95

22470



Adjustable Scraper

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



Application	Order No.	Regular Price	SALE
Scraping, Tri mming, De-burring	FN55SC8000	26.81	17.95

24094



Double Burr

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



Order No.	Regular Price	SALE
FN55DB1000	31.13	20.95

10075



007

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



Order No.	Regular Price	SALE
FN55007	80.40	54.95

10065



Universal Handy Chuck Holder

Model PV1000

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



Order No.	Regular Price	SALE
FN55PV1000	77.22	52.95

10120



Ceramic Convexed Cera-Cut & Blades

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



Included	Order No.	Regular Price	SALE
Cera-Cut Handle / 250 mm Convex Blade	FN55CR2000	46.35	31.95

10069



Reversible Countersinks

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



Range	Included	Type	Order No.	Regular Price	SALE
3-5.5 mm	Steel Handle / R1 Blade	Mini-Reversible Set	FN55RC1000	39.72	26.95
5-10 mm	Steel Handle / R2 Blade	Medium-Reversible Set	FN55RC2000	39.72	26.95
10-22 mm	Steel Handle / R3 Blade	Large-Reversible Set	FN55RC2200	47.32	31.95
3.5 - 22 mm	Set of all 3	Mini, Medium, Large	FN55RC3300	126.78	85.95

24089



NG Handles & S & N Holders



For Use With	Type	Order No.	Regular Price	SALE
N Blades	N Blade Holder	FN55EL01003	9.22	5.95
S Blades	S Blade Holder	FN55EL02003	9.22	5.95
S Blades	NG-1 Handle	FN55NG1000	11.52	9.95
N Blades	NG-2 Handle	FN55NG2000	11.85	9.95
All Blade Holders	NG-3 Handle	FN55NG3000	11.85	9.95

24075



M924 Solid Carbide 4 Flute Corner Radius End Mills

POW•R•FEED Series M924 End Mills

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

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



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Corner Radius (RE) - 0.015"			Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	1/2"	1-1/2"	DD4167499	46.07	27.95	-	-	-	-	-	-
3/16"	3/16"	9/16"	2"	DD4167511	61.85	36.95	-	-	-	-	-	-
1/4"	1/4"	3/4"	2-1/2"	DD4167525	73.22	41.95	DD4167526	69.75	41.95	-	-	-
1/4"	1/4"	1-1/4"	3"	DD4167531	82.29	49.95	DD4167532	82.29	49.95	-	-	-
1/4"	1/4"	1-3/4"	4"	DD4167547	97.98	58.95	DD4167548	97.98	58.95	-	-	-
5/16"	5/16"	13/16"	2-1/2"	DD4167099	86.83	51.95	DD4167100	86.83	51.95	-	-	-
3/8"	3/8"	1-1/4"	3"	DD4167133	132.12	79.95	DD4167134	132.12	79.95	-	-	-
3/8"	3/8"	2"	4"	DD4167165	162.96	97.95	DD4167166	162.96	97.95	-	-	-
1/2"	1/2"	5/8"	2-1/2"	-	-	-	DD4167206	168.10	95.95	-	-	-
1/2"	1/2"	1"	3"	DD4167214	162.29	97.95	DD4167215	162.29	97.95	DD4167216	162.29	97.95
1/2"	1/2"	1-1/4"	3"	DD4167223	168.36	100.95	DD4167224	168.36	100.95	DD4167225	168.36	100.95
5/8"	5/8"	3/4"	3"	-	-	-	DD4167278	255.83	153.95	-	-	-
5/8"	5/8"	1-3/8"	3-1/2"	-	-	-	DD4167288	265.12	158.95	DD4167289	265.12	158.95
5/8"	5/8"	2-1/8"	4"	-	-	-	DD4167298	334.12	190.95	DD4167299	318.18	190.95
3/4"	3/4"	1-5/8"	4"	-	-	-	DD4167358	445.15	266.95	DD4167359	445.15	266.95
3/4"	3/4"	2-3/8"	5"	-	-	-	DD4167368	508.52	379.95	-	-	-
1"	1"	1-3/4"	4"	-	-	-	DD4167408	704.10	525.95	DD4167409	704.10	525.95

29997



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

For Hard Materials - Square End

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



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	1/2"	1-1/2"	5	DD4069052	43.62	25.95
1/8"	1/8"	1/4"	1-1/2"	5	DD4069050	42.84	25.95
3/16"	3/16"	5/16"	2"	5	DD4069054	50.68	30.95
3/16"	3/16"	9/16"	2"	5	DD4069056	51.83	30.95
1/4"	1/4"	3/4"	2-1/2"	6	DD4069058	71.40	40.95
1/4"	1/4"	1-1/4"	3"	6	DD4069061	83.03	49.95
3/8"	3/8"	7/8"	2-1/2"	6	DD4069070	107.59	64.95
3/8"	3/8"	1-1/4"	3"	6	DD4069073	134.82	80.95
3/8"	3/8"	2"	4"	6	DD4069076	170.05	101.95
1/2"	1/2"	1"	3"	6	DD4069079	156.47	93.95
1/2"	1/2"	1-1/4"	3"	6	DD4069083	162.34	97.95
1/2"	1/2"	1-5/8"	3-1/2"	6	DD4069087	205.37	122.95
5/8"	5/8"	1-3/8"	3-1/2"	6	DD4069099	282.58	169.95
3/4"	3/4"	1-5/8"	4"	6	DD4069111	452.99	270.95
3/4"	3/4"	2-5/8"	5"	6	DD4069115	559.42	334.95

22460

CUTTING TOOLS

High Performance Spiral Point Taps

Steam Oxide • Plug Style • Color Coded for Easy Identification



Blue Band - for General Ductile Materials Designed for high speed tapping applications. Developed to withstand the high stress and high heat associated with high speed CNC production tapping.

- Used in general machine tapping applications for mild carbon steels such as 1018, 1010, 1035, 1045, 1050 and 1065
- Up to 25 HRC

Red Band-for High Tensile Materials Powdered metal taps offer superior toughness, lubricity and are made of super hard powder high speed steel.

- Used for heat resistant materials, high strength stainless steel and titanium alloys as well as other high tensile steels and alloys including tool steel and nickel alloys
- Up to 48 HRC

Yellow Band -for Tough Materials Designed for high speed tapping applications. Developed to withstand the high stress and high heat associated with high speed CNC production tapping.

- Superior performance in hardened tool steels such as 4140, 4340, H13, D2, and a new variety of stainless steels
- Up to 35HRC

Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Thread Tolerance Class (TCTR)	Overall Length (OAL)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Tough Material - Yellow Band			High Tensile - Red Band			General Purpose - Blue Band		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
#4	40	H2	1-7/8"	2	0.335"	ER80Y1000440	10.60	8.95	ER80R1000440	26.65	22.95	ER80B1000440	7.30	5.95
#5	40	H2	1-15/16"	3	0.374"	-	-	-	ER80R1000540	24.54	20.95	-	-	-
#6	32	H3	2"	3	0.413"	ER80Y1000632	10.99	8.95	ER80R1000632	22.40	18.95	ER80B1000632	7.71	6.95
#6	40	H2	2"	3	0.413"	ER80Y1000640	10.37	8.95	-	-	-	ER80B1000640	7.26	5.95
#8	32	H3	2-1/8"	3	0.453"	ER80Y1000832	10.99	8.95	ER80R1000832	22.40	18.95	ER80B1000832	7.71	6.95
#10	24	H3	2-3/8"	3	0.531"	ER80Y1001024	10.99	8.95	ER80R1001024	22.40	18.95	ER80B1001024	7.71	6.95
#10	32	H3	2-3/8"	3	0.531"	ER80Y1001032	10.99	8.95	ER80R1001032	22.40	18.95	ER80B1001032	7.71	6.95
#12	24	H3	2-3/8"	3	0.531"	ER80Y1001224	12.64	10.95	-	-	-	ER80B1001224	9.02	7.95
1/4"	20	H3	2-1/2"	3	0.591"	ER80Y1001620	12.64	10.95	ER80R1001620	26.52	22.95	ER80B1001620	9.02	7.95
1/4"	28	H3	2-1/2"	3	0.591"	ER80Y1001628	12.64	10.95	ER80R1001628	26.52	22.95	ER80B1001628	9.02	7.95
5/16"	18	H3	2-23/32"	3	0.669"	ER80Y1002018	15.89	13.95	ER80R1002018	29.52	24.95	ER80B1002018	11.99	9.95
5/16"	24	H3	2-23/32"	3	0.669"	ER80Y1002024	15.89	13.95	ER80R1002024	29.52	24.95	ER80B1002024	11.99	9.95
3/8"	16	H3	2-15/16"	3	0.748"	ER80Y1002416	16.27	13.95	ER80R1002416	33.73	28.95	ER80B1002416	12.15	9.95
3/8"	24	H3	2-15/16"	3	0.748"	ER80Y1002424	16.27	13.95	ER80R1002424	33.73	28.95	ER80B1002424	12.15	9.95
7/16"	14	H3	3-5/32"	3	0.866"	ER80Y1002814	25.88	21.95	ER80R1002814	47.95	40.95	ER80B1002814	19.42	16.95
7/16"	20	H3	3-5/32"	3	0.866"	ER80Y1002820	25.88	21.95	ER80R1002820	47.95	40.95	ER80B1002820	19.42	16.95
1/2"	13	H3	3-3/8"	3	0.984"	ER80Y1003213	29.16	24.95	ER80R1003213	52.84	44.95	ER80B1003213	21.91	18.95
1/2"	20	H3	3-3/8"	3	0.984"	ER80Y1003220	29.16	24.95	ER80R1003220	52.84	44.95	ER80B1003220	21.91	18.95
5/8"	11	H3	3-13/16"	3	1.083"	ER80Y1004011	30.04	25.95	ER80R1004011	121.59	103.95	ER80B1004011	22.66	18.95
5/8"	18	H3	3-13/16"	3	1.083"	ER80Y1004018	30.04	25.95	ER80R1004018	121.59	103.95	ER80B1004018	22.66	18.95
3/4"	10	H3	4-1/4"	3	1.201"	ER80Y1004810	42.46	35.95	ER80R1004810	157.18	134.95	ER80B1004810	32.03	26.95
3/4"	16	H3	4-1/4"	3	1.201"	ER80Y1004816	42.46	35.95	ER80R1004816	157.18	134.95	ER80B1004816	32.03	26.95
7/8"	9	H4	4-11/16"	3	1.339"	ER80Y1005609	91.99	78.95	-	-	-	ER80B1005609	68.97	58.95
7/8"	14	H4	4-11/16"	3	1.339"	ER80Y1005614	91.99	78.95	-	-	-	ER80B1005614	68.97	58.95
1"	8	H4	5-1/8"	3	1.496"	ER80Y1010008	124.66	106.95	-	-	-	ER80B1010008	93.52	79.95
1"	12	H4	5-1/8"	3	1.496"	ER80Y1010012	124.66	106.95	-	-	-	ER80B1010012	93.52	79.95
1-1/8"	7	H4	5-7/16"	4	1.61"	ER80Y1010807	180.61	154.95	-	-	-	ER80B1010807	135.51	115.95
1-1/8"	12	H4	5-7/16"	4	1.61"	ER80Y1010812	180.61	154.95	-	-	-	ER80B1010812	135.51	115.95
1-1/4"	12	H4	5-3/4"	4	1.61"	ER80Y1011612	194.01	165.95	-	-	-	ER80B1011612	145.58	124.95
1-1/4"	7	H4	5-3/4"	4	1.61"	ER80Y1011607	194.01	165.95	-	-	-	ER80B1011607	145.58	124.95
1-3/8"	6	H4	6-1/16"	4	1.9"	ER80Y1012406	266.38	227.95	-	-	-	ER80B1012406	199.71	170.95
1-3/8"	12	H4	6-1/16"	4	1.9"	ER80Y1012412	266.38	227.95	-	-	-	ER80B1012412	199.71	170.95
1-1/2"	6	H4	6-3/8"	4	2"	ER80Y1013206	351.11	300.95	-	-	-	ER80B1013206	263.36	225.95
1-1/2"	12	H4	6-3/8"	4	2"	ER80Y1013212	351.11	300.95	-	-	-	ER80B1013212	263.36	225.95

10523

High Performance Spiral Flute Taps

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



Blue Band - for General Ductile Materials Designed for high speed tapping applications. Developed to withstand the high stress and high heat associated with high speed CNC production tapping.

- Used in general machine tapping applications for mild carbon steels such as 1018, 1010, 1035, 1045, 1050 and 1065
- Up to 25 HRC

Red Band - for High Tensile Materials Powdered Metal taps offer superior toughness, lubricity and are made of super hard powder high speed steel.

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- Up to 48 HRC

Yellow Band - for Tough Materials Designed for high speed tapping applications. Developed to withstand the high stress and high heat associated with high speed CNC production tapping.

- Superior performance in hardened tool steels such as 4140, 4340, H13, D2, and a new variety of stainless steels
- Up to 35 HRC

Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Thread Tolerance Class (TCTR)	Overall Length (OAL)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Tough Material - Yellow Band			High Tensile - Red Band			General Purpose - Blue Band		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
#4	40	H2	1-7/8"	2	0.236"	ER80Y2000440	16.36	13.95	ER80R2000440	34.75	29.95	ER80B2000440	14.39	11.95
#6	32	H3	2"	3	0.276"	ER80Y2000632	15.40	12.95	ER80R2000632	31.54	26.95	ER80B2000632	14.39	11.95
#8	32	H3	2-1/8"	3	0.276"	ER80Y2000832	19.12	15.95	ER80R2000832	31.10	26.95	ER80B2000832	17.81	14.95
#10	24	H3	2-3/8"	3	0.354"	ER80Y2001024	18.77	15.95	ER80R2001024	31.10	26.95	ER80B2001024	17.49	14.95
#10	32	H3	2-3/8"	3	0.276"	ER80Y2001032	18.77	15.95	ER80R2001032	31.10	26.95	ER80B2001032	17.49	14.95
1/4"	20	H3	2-1/2"	3	0.433"	ER80Y2001620	19.12	15.95	ER80R2001620	34.75	29.95	ER80B2001620	17.81	14.95
1/4"	28	H3	2-1/2"	3	0.433"	ER80Y2001628	19.12	15.95	ER80R2001628	34.75	29.95	ER80B2001628	17.81	14.95
5/16"	18	H3	2-23/32"	3	0.472"	ER80Y2002018	24.24	20.95	ER80R2002018	38.10	32.95	ER80B2002018	24.24	20.95
5/16"	24	H3	2-23/32"	3	0.472"	ER80Y2002024	24.24	20.95	ER80R2002024	38.10	32.95	ER80B2002024	30.12	20.95
3/8"	16	H3	2-15/16"	3	0.551"	ER80Y2002416	29.16	24.95	ER80R2002416	43.97	37.95	ER80B2002416	29.23	24.95
3/8"	24	H3	2-15/16"	3	0.551"	ER80Y2002424	29.16	24.95	ER80R2002424	43.97	37.95	ER80B2002424	29.23	24.95
7/16"	14	H3	3-5/32"	3	0.591"	ER80Y2002814	43.78	37.95	ER80R2002814	61.51	52.95	ER80B2002814	43.78	37.95
7/16"	20	H3	3-5/32"	3	0.472"	ER80Y2002820	43.78	37.95	ER80R2002820	61.51	52.95	-	-	-
1/2"	13	H3	3-3/8"	3	0.63"	ER80Y2003213	47.86	40.95	ER80R2003213	67.94	57.95	ER80B2003213	47.86	40.95
1/2"	20	H3	3-3/8"	3	0.63"	ER80Y2003220	47.86	40.95	ER80R2003220	67.94	57.95	ER80B2003220	47.86	40.95
5/8"	11	H3	3-13/16"	4	0.748"	ER80Y2004011	52.41	44.95	ER80R2004011	153.58	131.95	ER80B2004011	49.22	41.95
5/8"	18	H3	3-13/16"	4	0.572"	ER80Y2004018	52.41	44.95	ER80R2004018	153.58	131.95	ER80B2004018	49.22	41.95
3/4"	10	H3	4-1/4"	4	0.827"	ER80Y2004810	82.01	69.95	ER80R2004810	197.01	168.95	ER80B2004810	69.59	59.95
3/4"	16	H3	4-1/4"	4	0.591"	ER80Y2004816	82.01	69.95	ER80R2004816	197.01	168.95	ER80B2004816	69.59	59.95
7/8"	9	H4	4-11/16"	4	0.827"	ER80Y2005609	120.64	102.95	-	-	-	ER80B2005609	113.16	96.95
7/8"	14	H4	4-11/16"	4	0.709"	ER80Y2005614	120.64	102.95	-	-	-	ER80B2005614	113.16	96.95
1"	8	H4	5-1/8"	4	0.764"	ER80Y2010008	160.65	137.95	-	-	-	ER80B2010008	150.60	128.95
1"	12	H4	5-1/8"	4	0.984"	ER80Y2010012	160.65	137.95	-	-	-	-	-	-
1-1/8"	7	H4	5-7/16"	4	1.115"	ER80Y2010807	244.12	208.95	-	-	-	ER80B2010807	183.10	156.95
1-1/8"	12	H4	5-7/16"	4	0.984"	ER80Y2010812	244.12	208.95	-	-	-	-	-	-
1-1/4"	7	H4	5-3/4"	4	1.115"	ER80Y2011607	262.09	223.95	-	-	-	ER80B2011607	196.60	167.95
1-1/4"	12	H4	5-3/4"	4	0.984"	ER80Y2011612	262.09	223.95	-	-	-	-	-	-
1-3/8"	6	H4	5-3/4"	4	1.115"	ER80Y2012406	351.67	300.95	-	-	-	ER80B2012406	263.77	225.95
1-3/8"	12	H4	5-3/4"	4	1.115"	ER80Y2012412	351.67	300.95	-	-	-	-	-	-
1-1/2"	6	H4	6-3/8"	4	1.35"	ER80Y2013206	401.37	343.95	-	-	-	ER80B2013206	301.07	257.95
1-1/2"	12	H4	6-3/8"	4	1.35"	ER80Y2013212	401.37	343.95	-	-	-	-	-	-

10451

Metric High Performance Spiral Point Taps

Steam Oxide - Plug Style - Color Coded for Easy Identification

- ANSI standard shank



Thread Diameter Size (TDZ)	Thread Pitch (TP)	Thread Tolerance Class (TCTR)	Overall Length (OAL)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Tough Material - Yellow Band			High Tensile - Red Band			General Purpose - Blue Band		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
M2	0.4 mm	D3	1-15/16"	2	3/8"	ER80Y3002040	25.84	21.95	-	-	-	ER80B3002040	18.09	15.95
M2.5	0.45 mm	D3	1-15/16"	2	3/8"	ER80Y3002545	20.77	17.95	-	-	-	ER80B3002545	14.58	11.95
M3	0.5 mm	D3	1-15/16"	3	3/8"	ER80Y3003560	17.49	14.95	ER80R3003050	18.01	14.95	ER80B3003050	12.25	10.95
M3.5	0.6 mm	D4	2"	3	3/8"	ER80Y3003560	12.64	10.95	-	-	-	ER80B3003560	9.02	7.95
M4	0.7 mm	D4	2-1/8"	3	3/8"	ER80Y3004070	12.64	10.95	ER80R3004070	13.64	11.95	ER80B3004070	9.02	7.95
M4.5	0.75 mm	D4	2-3/8"	3	1/2"	ER80Y3004575	12.64	10.95	-	-	-	ER80B3004575	9.02	7.95
M5	0.8 mm	D4	2-3/8"	3	1/2"	ER80Y3005090	14.66	12.95	ER80R3005090	16.27	13.95	ER80B3005090	10.28	8.95
M6	1 mm	D5	2-1/2"	2	5/8"	ER80Y3006100	14.66	12.95	ER80R3006100	17.45	14.95	ER80B3006100	10.28	8.95
M7	1 mm	D5	2-23/32"	3	0.687"	ER80Y3007100	18.73	15.95	-	-	-	ER80B3007100	14.04	11.95
M8	1 mm	D5	2-23/32"	3	0.687"	ER80Y3008100	18.73	15.95	-	-	-	ER80B3008100	14.04	11.95
M8	1.25 mm	D5	2-23/32"	3	0.687"	ER80Y3008125	18.73	15.95	ER80R3008125	22.97	19.95	ER80B3008125	14.04	11.95
M10	1.25 mm	D5	2-15/16"	3	3/4"	ER80Y3010125	29.73	24.95	ER80R3010125	37.00	31.95	ER80B3010125	22.18	18.95
M10	1.5 mm	D6	2-15/16"	3	3/4"	ER80Y3010150	29.73	24.95	ER80R3010150	37.00	31.95	ER80B3010150	22.18	18.95
M12	1.25 mm	D5	3-3/8"	3	0.937"	ER80Y3012125	33.67	28.95	-	-	-	ER80B3012125	25.31	21.95
M12	1.75 mm	D6	3-3/8"	3	0.937"	ER80Y3012175	33.67	28.95	ER80R3012175	45.01	38.95	ER80B3012175	25.31	21.95
M14	1.5 mm	D6	3-19/32"	3	1"	ER80Y3014150	50.33	42.95	-	-	-	ER80B3014150	37.91	31.95
M14	2 mm	D7	3-19/32"	3	1"	ER80Y3014200	50.33	42.95	-	-	-	ER80B3014200	37.91	31.95
M16	1.5 mm	D6	3-13/16"	3	1.093"	ER80Y3016150	59.42	50.95	-	-	-	ER80B3016150	44.61	37.95
M16	2 mm	D7	3-13/16"	3	1.093"	ER80Y3016200	59.42	50.95	-	-	-	ER80B3016200	44.61	37.95
M18	1.5 mm	D6	4-1/32"	3	1.093"	ER80Y3018150	72.94	61.95	-	-	-	ER80B3018150	54.67	46.95
M18	2.5 mm	D7	4-1/32"	3	1.093"	ER80Y3018250	72.94	61.95	-	-	-	ER80B3018250	54.67	46.95
M20	1.5 mm	D5	4-15/32"	3	1.201"	ER80Y3020150	94.83	80.95	-	-	-	ER80B3020150	71.17	60.95
M20	2.5 mm	D6	4-15/32"	3	1.201"	ER80Y3020250	94.83	80.95	-	-	-	ER80B3020250	71.17	60.95
M22	1.5 mm	D6	4-11/16"	3	1.343"	ER80Y3022150	113.28	96.95	-	-	-	ER80B3022150	84.94	72.95
M22	2.5 mm	D6	4-11/16"	3	1.343"	ER80Y3022250	113.28	96.95	-	-	-	ER80B3022250	84.94	72.95
M24	1.5 mm	D5	4-29/32"	3	1.496"	ER80Y3024150	131.49	112.95	-	-	-	ER80B3024150	98.73	84.95
M24	3 mm	D7	4-29/32"	3	1.496"	ER80Y3024300	131.49	112.95	-	-	-	ER80B3024300	98.73	84.95
M27	1.5 mm	D7	5"	4	1.563"	-	-	-	-	-	-	ER80B3027150	126.71	108.95
M27	3 mm	D7	5"	4	1.563"	-	-	-	-	-	-	ER80B3027300	126.71	108.95
M30	1.5 mm	D7	5-7/16"	4	1.813"	-	-	-	-	-	-	ER80B3030150	145.58	124.95
M30	3.5 mm	D7	5-7/16"	4	1.813"	-	-	-	-	-	-	ER80B3030150	145.58	124.95

10496

Metric High Performance Spiral Flute Taps

Bright Finish - Semi-Bottoming Style Color Coded for Easy Identification

Blue Ring - High Vanadium Steel For general purpose machining of:

- Low carbon steel (< HRC 16)
- Medium to high carbon steel and low alloy steel (> HRC 23)
- Steel castings and forgings (> HRC 24)

Yellow Ring - High Vanadium Steel For tough materials such as:

- Stainless steel (> HRC 23)
- Heat/corrosion resistant stainless steel (> HRC 24)
- Valve stainless steel (> HRC 38)
- Alloyed high carbon and tool steel

Red Ring - Powder Metallurgy HSS For high tensile materials such as:

- Titanium (> HRC 38)
- Inconel, Waspaloy, Hastelloy and Monel (> HRC 38)
- Tool steels and nickel alloys
- High strength stainless steels

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



Thread Diameter Size (TDZ)	Thread Pitch (TP)	Thread Tolerance Class (TCTR)	Overall Length (OAL)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Tough Material - Yellow Band			High Tensile - Red Band			General Purpose - Blue Band		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
M3	0.5 mm	D3	1-15/16"	2	0.197"	ER80Y4003050	21.78	18.95	ER80R4003050	29.69	24.95	ER80B4003050	20.46	17.95
M3.5	0.6 mm	D4	2"	3	0.276"	ER80Y4003560	21.78	18.95	-	-	-	ER80B4003560	20.46	17.95
M4	0.7 mm	D4	2-1/8"	2	0.276"	ER80Y4004070	21.78	18.95	ER80R4004070	30.08	25.95	ER80B4004070	20.46	17.95
M5	0.8 mm	D4	2-3/8"	2	0.354"	ER80Y4005080	21.78	18.95	ER80R4005080	30.71	25.95	ER80B4005080	20.46	17.95
M6	1 mm	D5	2-1/2"	2	0.433"	ER80Y4006100	21.78	18.95	ER80R4006100	32.07	26.95	ER80B4006100	20.46	17.95
M7	1 mm	D5	2-23/32"	3	0.433"	ER80Y4007100	33.73	28.95	-	-	-	ER80B4007100	33.73	28.95
M8	1 mm	D5	2-23/32"	3	0.472"	ER80Y4008100	33.73	28.95	-	-	-	ER80B4008100	33.73	28.95
M8	1.25 mm	D5	2-23/32"	3	0.472"	ER80Y4008125	33.73	28.95	ER80R4008125	49.22	41.95	ER80B4008125	33.73	28.95
M10	1.25 mm	D5	2-15/16"	3	0.472"	ER80Y4010125	50.29	42.95	ER80R4010125	74.41	63.95	ER80B4010125	50.29	42.95
M10	1.5 mm	D6	2-15/16"	3	0.512"	ER80Y4010150	50.29	42.95	ER80R4010150	74.41	63.95	ER80B4010150	50.29	42.95
M12	1.25 mm	D5	3-3/8"	3	0.551"	ER80Y4012125	55.13	46.95	-	-	-	ER80B4012125	55.13	46.95
M12	1.75 mm	D6	3-3/8"	3	0.591"	ER80Y4012175	55.13	46.95	ER80R4012175	84.73	72.95	ER80B4012175	55.13	46.95
M14	1.5 mm	D6	3-19/32"	3	0.709"	ER80Y4014150	69.59	59.95	-	-	-	ER80B4014150	69.59	59.95
M14	2 mm	D7	3-19/32"	3	0.709"	ER80Y4014200	69.59	59.95	-	-	-	ER80B4014200	69.59	59.95
M16	1.5 mm	D6	3-13/16"	3	0.551"	ER80Y4016150	88.49	75.95	-	-	-	ER80B4016150	82.88	70.95
M16	2 mm	D7	3-13/16"	3	0.709"	ER80Y4016200	88.49	75.95	-	-	-	ER80B4016200	82.88	70.95
M18	1.5 mm	D6	4-1/32"	4	0.551"	ER80Y4018150	128.12	109.95	-	-	-	ER80B4018150	120.12	102.95
M18	2.5 mm	D7	4-1/32"	4	0.787"	ER80Y4018250	128.12	109.95	-	-	-	ER80B4018250	120.12	102.95
M20	1.5 mm	D5	4-15/32"	4	0.551"	ER80Y4020150	150.91	128.95	-	-	-	ER80B4020150	141.64	120.95
M20	2.5 mm	D6	4-15/32"	4	0.701"	ER80Y4020250	150.91	128.95	-	-	-	ER80B4020250	141.64	120.95
M22	1.5 mm	D6	4-11/16"	4	0.551"	ER80Y4022150	163.32	139.95	-	-	-	ER80B4022150	153.10	130.95
M22	2.5 mm	D6	4-11/16"	4	0.787"	ER80Y4022250	163.32	139.95	-	-	-	ER80B4022250	153.10	130.95
M24	1.5 mm	D5	4-29/32"	4	1-1/2"	-	-	-	-	-	-	ER80B4024150	164.55	140.95
M24	3 mm	D7	4-29/32"	4	0.787"	ER80Y4024300	175.59	149.95	-	-	-	ER80B4024300	164.55	140.95
M30	3.5 mm	D7	5-1/2"	4	1-3/4"	-	-	-	-	-	-	ER80B4030350	229.46	196.95
M30	1.5 mm	D7	5-1/2"	4	1-3/4"	-	-	-	-	-	-	ER80B4030150	229.46	196.95

10462

CUTTING TOOLS

HSS M GF 4 Flute Double End Mills

High Speed Steel

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



					Non-Center Cutting			Center Cutting		
Cutting Diameter (DC)	Con- nection Diameter Machine Side (DCONMS)	Depth of Cut Maximu (APMX)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regu- lar Price	SALE	Order No.	Regu- lar Price	SALE
1/8"	3/8"	3/8"	3-1/16"	4	MT2243266	33.07	23.95	MT2244251	34.46	24.95
9/64"	3/8"	7/16"	3-1/8"	4	MT2243286	31.19	21.95	MT2243050	38.57	27.95
5/32"	3/8"	7/16"	3-1/8"	4	MT2243267	28.49	20.95	MT2243051	34.46	24.95
11/64"	3/8"	1/2"	3-1/8"	4	MT2243287	31.19	21.95	MT2243052	41.16	28.95
3/16"	3/8"	1/2"	3-1/4"	4	MT2243268	29.69	20.95	MT2244252	34.46	24.95
13/64"	3/8"	9/16"	3-1/4"	4	MT2243288	31.19	21.95	MT2243053	39.49	27.95
7/32"	3/8"	9/16"	3-1/4"	4	MT2243269	33.36	23.95	MT2243054	34.46	24.95
1/4"	3/8"	5/8"	3-3/8"	4	MT2243270	33.25	23.95	MT2244253	34.75	24.95
17/64"	3/8"	11/16"	3-3/8"	4	MT2243290	41.12	28.95	MT2243056	38.78	27.95
9/32"	3/8"	11/16"	3-3/8"	4	MT2243271	49.74	34.95	MT2243057	36.98	26.95
19/64"	3/8"	3/4"	3-1/2"	4	MT2243291	31.48	22.95	MT2243058	40.83	28.95
5/16"	3/8"	3/4"	3-1/2"	4	MT2243272	32.78	23.95	MT2244254	34.75	24.95
21/64"	3/8"	3/4"	3-1/2"	4	MT2243292	31.48	22.95	MT2243059	48.25	33.95
11/32"	3/8"	3/4"	3-1/2"	4	MT2243273	34.00	23.95	MT2243060	35.54	24.95
23/64"	3/8"	3/4"	3-1/2"	4	MT2243293	24.97	17.95	MT2243061	64.53	45.95
3/8"	3/8"	3/4"	3-1/2"	4	MT2243274	31.48	22.95	MT2244255	36.95	25.95
25/64"	1/2"	1"	4-1/8"	4	MT2243294	62.13	43.95	MT2243062	48.83	34.95
13/32"	1/2"	1"	4-1/8"	4	MT2243275	44.85	31.95	MT2243063	55.18	38.95
27/64"	1/2"	1"	4-1/8"	4	MT2243295	36.35	25.95	MT2243064	84.30	59.95
7/16"	1/2"	1"	4-1/8"	4	MT2243276	43.40	30.95	MT2243065	55.18	38.95
29/64"	1/2"	1"	4-1/8"	4	-	-	-	MT2243066	72.61	51.95
15/32"	1/2"	1"	4-1/8"	4	MT2243277	50.25	35.95	MT2243067	55.18	38.95
31/64"	1/2"	1"	4-1/8"	4	MT2243297	49.35	34.95	MT2243068	81.45	57.95
1/2"	1/2"	1"	4-1/8"	4	MT2243278	49.35	34.95	MT2244256	55.18	38.95
9/16"	5/8"	1-3/8"	5"	4	MT2243279	60.23	42.95	MT2243069	65.75	46.95
5/8"	5/8"	1-3/8"	5"	4	MT2243280	58.11	40.95	MT2244257	65.75	46.95
11/16"	3/4"	1-5/8"	5-5/8"	4	MT2243281	66.77	46.95	MT2243070	74.78	52.95
3/4"	3/4"	1-5/8"	5-5/8"	4	MT2243282	100.04	70.95	MT2244258	82.92	58.95
7/8"	7/8"	1-7/8"	6-1/8"	4	MT2243284	156.66	110.95	MT2244259	117.48	82.95
15/16"	1"	1-7/8"	6-3/8"	4	MT2243305	103.58	72.95	-	-	-
1"	1"	1-7/8"	6-3/8"	4	MT2243285	169.59	119.95	MT2244260	142.86	100.95

10027

HSS M GF 2 Flute Double End Mills

High Speed Steel - Center Cutting

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



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/8"	3/8"	3/8"	3-1/16"	MT2343412	34.28	24.95
9/64"	3/8"	7/16"	3-1/8"	MT2343431	36.10	25.95
5/32"	3/8"	7/16"	3-1/8"	MT2343413	32.36	22.95
11/64"	3/16"	7/16"	3-1/8"	MT2343432	37.12	26.95
3/16"	3/8"	7/16"	3-1/4"	MT2343414	34.28	24.95
13/64"	3/8"	1/2"	3-1/4"	MT2343433	35.36	24.95
7/32"	3/8"	1/2"	3-1/4"	MT2343415	33.18	23.95
15/64"	1/4"	1/2"	3-3/8"	MT2343434	35.36	24.95
1/4"	3/8"	1/2"	3-3/8"	MT2343416	34.28	24.95
17/64"	1/2"	9/16"	3-3/8"	MT2343435	40.60	28.95
9/32"	3/8"	9/16"	3-3/8"	MT2343417	34.96	24.95
19/64"	3/8"	9/16"	3-1/2"	MT2343436	38.38	26.95
5/16"	3/8"	9/16"	3-1/2"	MT2343418	37.04	26.95
21/64"	3/8"	9/16"	3-1/2"	MT2343437	39.30	27.95
11/32"	3/8"	9/16"	3-1/2"	MT2343419	35.94	25.95
23/64"	3/8"	9/16"	3-1/2"	MT2343438	38.98	27.95
3/8"	3/8"	9/16"	3-1/2"	MT2343420	39.96	28.95
25/64"	1/2"	13/16"	4-1/8"	MT2343439	53.12	37.95

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
13/32"	1/2"	13/16"	4-1/8"	MT2343421	53.40	37.95
27/64"	1/2"	13/16"	4-1/8"	MT2343440	69.32	48.95
7/16"	1/2"	13/16"	4-1/8"	MT2343422	58.88	41.95
29/64"	1/2"	13/16"	4-1/8"	MT2343441	55.26	38.95
15/32"	1/2"	13/16"	4-1/8"	MT2343423	50.76	35.95
31/64"	1/2"	13/16"	4-1/8"	MT2343442	69.32	48.95
1/2"	1/2"	13/16"	4-1/8"	MT2343424	52.70	37.95
9/16"	5/8"	1-1/8"	5"	MT2343425	76.10	53.95
5/8"	5/8"	1-1/8"	5"	MT2343426	70.82	49.95
11/16"	3/4"	1-5/16"	5-7/8"	MT2343427	90.48	63.95
3/4"	3/4"	1-5/16"	5"	MT2343428	127.86	89.95
13/16"	5/8"	1-9/16"	5-1/2"	MT2343448	208.02	146.95
7/8"	7/8"	1-9/16"	5-1/2"	MT2343429	120.80	84.95
1"	1"	1-5/8"	5-7/8"	MT2343430	206.72	145.95

10011

HSS M GF Multi-Flute Single End Mills

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



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE
3/4"	3/4"	1-5/8"	3-7/8"	4	MT2196128	101.04	71.95
17/32"	1/2"	1-3/8"	3-3/8"	4	MT2296096	76.76	53.95
5/8"	1/2"	1-3/8"	3-3/8"	4	MT2296098	92.30	64.95
1/8"	3/8"	3/8"	2-5/16"	4	MT2296100	33.54	23.95
5/32"	3/8"	1/2"	2-3/8"	4	MT2296102	29.23	20.95
3/16"	3/8"	1/2"	2-3/8"	4	MT2296104	33.58	23.95
7/32"	3/8"	5/8"	2-7/16"	4	MT2296106	34.38	24.95
1/4"	3/8"	5/8"	2-7/16"	4	MT2296108	31.91	22.95
9/32"	3/8"	3/4"	2-1/2"	4	MT2296110	34.42	24.95
5/16"	3/8"	3/4"	2-1/2"	4	MT2296112	31.95	22.95
11/32"	3/8"	3/4"	2-1/2"	4	MT2296114	35.30	24.95
3/8"	3/8"	3/4"	2-1/2"	4	MT2296116	35.30	24.95
13/32"	3/8"	1"	2-11/16"	4	MT2296118	49.33	34.95
7/16"	3/8"	1"	2-11/16"	4	MT2296120	47.19	33.95
15/32"	1/2"	1-1/4"	3-1/4"	4	MT2296122	58.17	40.95
1/2"	1/2"	1-1/4"	3-1/4"	4	MT2296124	43.05	30.95
9/16"	1/2"	1-3/8"	3-3/8"	4	MT2296125	82.87	58.95
5/8"	5/8"	1-5/8"	3-3/4"	4	MT2296126	71.27	50.95
11/16"	5/8"	1-5/8"	3-5/8"	4	MT2296127	95.69	67.95
13/16"	3/4"	1-7/8"	4"	4	MT2296129	139.48	98.95
7/8"	3/4"	1-7/8"	4-1/8"	4	MT2296130	154.39	108.95
1"	1"	2"	4-1/2"	4	MT2296132	152.68	107.95
3/4"	5/8"	1-5/8"	3-3/4"	4	MT2296133	122.73	86.95
1"	3/4"	2"	4-1/8"	4	MT2296134	180.86	127.95
1-1/8"	1"	2"	4-1/2"	4	MT2296135	195.35	137.95
1-1/4"	1"	2"	4-1/2"	6	MT2296136	275.04	193.95
1-1/2"	1-1/4"	2"	4-1/2"	6	MT2296138	352.04	247.95

29172

INTERNAL TOOL Solid Carbide Dovetail Cutters

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



					Uncoated			AlTiN		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Number of Teeth	Angle	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	2"	3	60 Degrees	GE97861095	70.11	66.05	GE97861095C	72.64	68.50
3/16"	3/16"	2-1/2"	3	60 Degrees	GE97861100	79.03	74.50	GE97861100C	82.41	77.50
1/4"	1/4"	2-1/2"	4	60 Degrees	GE97861105	84.14	79.25	GE97861105C	90.92	85.50
5/16"	0.312"	2-1/2"	4	60 Degrees	GE97861107	87.98	83.05	GE97861107C	100.63	90.05
3/8"	3/8"	2-1/2"	5	60 Degrees	GE97861110	90.53	85.50	GE97861110C	98.09	92.50
1/2"	1/2"	3"	6	60 Degrees	GE97861115	111.25	105.05	GE97861115C	124.73	117.50
5/8"	5/8"	3-1/2"	6	60 Degrees	GE97861117	144.95	129.05	GE97861117C	164.36	155.05
3/4"	3/4"	4"	6	60 Degrees	GE97861118	194.76	174.05	GE97861118C	211.69	190.05

30137

PRO-CUT Jobber Drills**High Speed Steel • 118° Standard Point • Surface Treated**

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

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Flute Length	Overall Length (OAL)	Order No.	Regular Price	SALE
1/64"	0.0156"	3/16"	3/4"	AC40001B	1.86	0.95
1/32"	0.0313"	1/2"	1-3/8"	AC40002B	1.19	0.95
3/64"	0.0469"	3/4"	1-3/4"	AC40003B	1.19	0.95
1/16"	0.0625"	7/8"	1-7/8"	AC40004B	1.19	0.95
5/64"	0.0781"	1"	2"	AC40005B	1.30	0.95
3/32"	0.0938"	1-1/4"	2-1/4"	AC40006B	1.30	0.95
7/64"	0.1094"	1-1/2"	2-5/8"	AC40007B	1.30	0.95
1/8"	0.125"	1-5/8"	2-3/4"	AC40008B	1.30	0.95
9/64"	0.1406"	1-3/4"	2-7/8"	AC40009B	2.24	0.95
5/32"	0.1563"	2"	3-1/8"	AC40010B	1.38	0.95
11/64"	0.1719"	2-1/8"	3-1/4"	AC40011B	1.47	0.95
3/16"	0.1875"	2-5/16"	3-1/2"	AC40012B	1.66	0.95
13/64"	0.2031"	2-7/16"	3-5/8"	AC40013B	1.86	0.95
7/32"	0.2188"	2-1/2"	3-3/4"	AC40014B	2.12	0.95
15/64"	0.2344"	2-5/8"	3-7/8"	AC40015B	2.12	0.95
1/4" [E]	0.25"	2-3/4"	4"	AC40016B	2.41	0.95
17/64"	0.2656"	2-7/8"	4-1/8"	AC40017B	2.89	1.75
9/32"	0.2813"	2-15/16"	4-1/4"	AC40018B	3.06	1.85
19/64"	0.2969"	3-1/16"	4-3/8"	AC40019B	3.52	2.15
5/16"	0.3125"	3-3/16"	4-1/2"	AC40020B	3.89	1.95
21/64"	0.3281"	3-5/16"	4-5/8"	AC40021B	4.17	1.95
11/32"	0.3438"	3-7/16"	4-3/4"	AC40022B	4.81	1.95
23/64"	0.3594"	3-1/2"	4-7/8"	AC40023B	5.28	3.25
3/8"	0.375"	3-5/8"	5"	AC40024B	5.47	3.35
25/64"	0.3906"	3-3/4"	5-1/8"	AC40025B	6.28	3.85
13/32"	0.4063"	3-7/8"	5-1/4"	AC40026B	6.38	3.85
27/64"	0.4219"	3-15/16"	5-3/8"	AC40027B	7.02	4.25
7/16"	0.4375"	4-1/16"	5-1/2"	AC40028B	7.32	4.45
29/64"	0.4531"	4-3/16"	5-5/8"	AC40029B	8.23	4.95
15/32"	0.4688"	4-5/16"	5-3/4"	AC40030B	8.71	5.25
31/64"	0.4844"	4-3/8"	5-7/8"	AC40031B	10.64	6.45
1/2"	0.5"	4-1/2"	6"	AC40032B	11.12	6.75
17/32"	0.5313"	4-13/16"	6-5/8"	AC40034B	18.34	11.05
9/16"	0.5625"	4-13/16"	6-5/8"	AC40036B	20.21	12.15
19/32"	0.5938"	5-3/16"	7-1/8"	AC40038B	20.76	12.55
5/8"	0.625"	5-3/16"	7-1/8"	AC40040B	23.70	14.25
21/32"	0.6563"	5-3/16"	7-1/8"	AC40042B	23.99	14.45
11/16"	0.6875"	5-5/8"	7-5/8"	AC40044B	27.42	16.55

24478

PRO-CUT 29 Pc. Taper Length Drill Set**Straight Shank • 1/16"-1/2" by 64ths**

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

Order No.	Regular Price	SALE
AP50104E	264.11	173.95

24453

PRO-CUT Combined Drills & Countersinks**60° • High Speed Steel • Cobalt****Plain Style**

- Used for centering work ends, where the workpiece is to be revolved on machine centers
- 60° Countersink angle fits all standard centers
- Morse List #1495
- Chicago-Latrobe List #217

					HSS, Morse Cutting Tools, Right Hand			HSS, Chicago-Latrobe, Right Hand			HSSCo, ProCut, Right Hand			HSS, ProCut, Right Hand			HSS, ProCut, Left Hand		
Drill Bit Size / Cutting Diameter (DC)	Point Diameter (PDD)	Overall Length (OAL)	Flute Length	Size	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
3/64"	3/64"	1-1/4"	-	#1	MT1925041	10.72	8.95	CH2156701	18.83	14.95	AV801	8.67	6.95	AV501	3.23	2.50	-	-	-
5/64"	5/64"	1-7/8"	-	#2	MT1925042	10.44	7.95	CH2156702	18.83	14.95	AV802	9.78	7.95	AV502	3.62	2.95	-	-	-
7/64"	7/64"	2"	-	#3	MT1925043	11.11	8.95	CH2156703	19.68	15.95	AV803	10.44	7.95	AV503	3.71	2.95	-	-	-
1/8"	1/8"	2-1/8"	-	#4	MT1925044	11.11	8.95	CH2156704	20.65	16.95	AV804	10.76	8.95	AV504	3.34	2.50	-	-	-
3/16"	3/16"	2-3/4"	-	#5	MT1925045	17.23	13.95	CH2156705	30.73	24.95	AV805	21.88	17.95	AV505	8.04	5.95	AV705	10.72	8.95
9/64"	3/8"	2-1/2"	-	#4.5	MT1925052	16.03	12.95	-	-	-	-	-	-	-	-	-	-	-	-
7/32"	7/32"	3"	-	#6	MT1925046	32.31	25.95	CH2156706	38.16	30.95	AV806	34.89	27.95	AV506	10.64	8.95	AV706	15.54	12.95
1/4"	1/4"	3-1/4"	-	#7	MT1925047	49.63	39.95	CH2156707	61.22	48.95	AV807	50.89	40.95	AV507	14.73	11.95	-	-	-
5/16"	5/16"	3-1/2"	-	#8	MT1925048	74.56	59.95	CH2156708	83.27	66.95	AV808	70.56	55.95	AV508	19.18	14.95	-	-	-
1"	3/8"	3-3/4"	0.375"	#10	-	-	-	-	-	-	-	-	-	AV5010	49.27	38.95	-	-	-

**Heavy Duty Cobalt Screw Machine Drills****Cobalt • 135° Split Point**

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

Drill Bit Size / Cutting Diameter (DC)	Cutting Depth	Overall Length (OAL)	Order No.	Regular Price	SALE
1/16"	5/8"	1-5/8"	PT1840304	6.75	3.95
5/64"	11/16"	1-11/16"	PT1840305	6.79	3.95
3/32"	3/4"	1-3/4"	PT1840306	6.75	3.95
7/64"	13/16"	1-13/16"	PT1840307	7.67	4.95
1/8"	7/8"	1-7/8"	PT1840308	8.79	4.95
9/64"	15/16"	1-15/16"	PT1840309	8.90	4.95
5/32"	1"	2-1/16"	PT1840310	9.64	5.95
11/64"	1-1/16"	2-1/8"	PT1840311	10.94	5.95
13/64"	1-3/16"	2-1/4"	PT1840313	14.62	7.95
15/64"	1-5/16"	2-7/16"	PT1840315	17.91	9.95
1/4" - E	1-3/8"	2-1/2"	PT1840316	17.91	9.95
17/64"	1-7/16"	2-5/8"	PT1840317	21.06	11.95
5/16"	1-5/8"	2-13/16"	PT1840320	27.75	14.95
3/8"	1-13/16"	3-1/8"	PT1840324	38.37	20.95
13/32"	1-15/16"	3-5/16"	PT1840326	45.28	24.95
1/2"	2-1/4"	3-3/4"	PT1840332	61.54	32.95

24345

**Center Drills****Plain Type 60°**

- Right hand
- High speed steel



Size	Drill Bit Size / Cutting Diameter (DC)	Overall Length (OAL)	Order No.	Regular Price	SALE
#0	1/32"	1-1/4"	AV4210032	12.18	11.50
#1	1/8"	1-1/4"	AV4110100	8.50	6.95
#2	3/16"	1-7/8"	AV4110200	8.87	6.95
#3	1/4"	2"	AV4110300	9.25	6.95
#4	5/16"	2-1/8"	AV4110400	9.54	7.95
#4.5	3/8"	2-1/2"	AV4114500	13.16	10.95
#5	7/16"	2-3/4"	AV4110500	15.14	11.95
#6	1/2"	3"	AV4110600	22.75	17.95
#7	5/8"	3-1/4"	AV4110700	34.51	27.95
#8	3/4"	3-1/2"	AV4110800	47.41	37.95
#9	7/8"	3-5/8"	AV4110900	86.01	68.95
#10	1"	3-3/4"	AV4111000	112.91	90.95

22469

**Dumont Keyway Broach Sets**

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



Bushings	Style	Order No.	Regular Price	SALE
1/4/5/16/3/8/7/16/1/2	A	FB5011101	511.36	433.95
1/2/5/8/3/4/7/8/1-1/8/1-1/4/1-3/8/1-1/2	B/C	FB5011104	892.72	756.95

22311



9643

ABRASIVES

SURF PRO High Performance Cut-Off Wheels

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



Diameter	Thick-ness	Arbor Hole	Wheel Type	Order No.	Regular Price	SALE
3"	.040"	3/8"	Type 1	SP010304038HPA	1.66	0.95
3"	1/16"	3/8"	Type 1	SP010311638HPA	1.66	0.95
4 1/2"	.045"	7/8"	Type 1	SP014504578HPA	2.08	1.50
6"	.045"	7/8"	Type 1	SP010604578HPA	4.40	2.95

680

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

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



Diameter	Thick-ness	Arbor Hole	Grit	Order No.	Regular Price	SALE
3"	1/8"	1/4"	46	SP010301252146Z	5.11	2.95
3"	1/8"	3/8"	46	SP010301253146Z	5.04	2.95
4"	1/8"	1/4"	36	SP010401252136Z	11.06	6.95
4"	1/8"	3/8"	36	SP010401253136Z	5.92	3.95

25163

CGW Quickie Cut™ Reinforced Cut-off Wheels

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



Diameter	Thick-ness	Arbor Hole	Specification	Order No.	Regular Price	SALE
4 1/2"	.045"	7/8"	A36-TBF	MG9035514	3.06	2.50
6"	.045"	7/8"	A36-TBF	MG9035517	3.85	3.45
4 1/2"	.035"	7/8"	A60-TB Flex	MG9045010	3.02	2.50
6"	.040"	7/8"	A60-TB Flex	MG9045012	3.89	3.05

22862

CGW Zirconia Premium Small Cut-Off Wheels - Type 1

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



Diameter	Thick-ness	Arbor Hole	Specification	Maximum RPM	Order No.	Regular Price	SALE
3"	1/16"	1/4"	ZA36-TBF	23900	MG9036173	3.75	2.95
3"	1/16"	3/8"	ZA36-TBF	23900	MG9036174	3.75	2.95
3"	1/32"	1/4"	ZA60-TBF	23900	MG9036175	3.58	2.95
3"	1/32"	3/8"	ZA60-TBF	23900	MG9036176	3.58	2.95
4"	1/16"	1/4"	ZA36-TBF	19100	MG9036177	4.94	3.95
4"	1/16"	3/8"	ZA36-TBF	19100	MG9036178	4.94	3.95
4"	1/32"	1/4"	ZA60-TBF	19100	MG9036179	4.23	3.50
4"	1/32"	3/8"	ZA60-TBF	19100	MG9036180	4.23	3.50

22877

SURF PRO Thin Flex Cut-Off Wheels

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



Diameter	Arbor Hole	Thick-ness	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	.035"	60	SP010450357160Z	3.60	2.95
5"	7/8"	.040"	60	SP010500407160Z	4.10	2.95
6"	7/8"	.040"	60	SP010600407160Z	4.64	2.95

25178

SURF PRO Thin Flex Cut-Off Wheels

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



Order No.	Regular Price	SALE
SP010450357160Z	3.60	2.95
SP010500407160Z	4.10	2.95
SP010600407160Z	4.64	2.95

25179

SURF PRO Wheel Adapters / Cut Off Wheel Mandrels

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



Mandrel Adapter, Screw Head						
Arbor Hole	Shank	Length	Washer OD	Order No.	Regular Price	SALE
1/4"	1/4"	2.15"	3/4"	SP24001414SH	10.08	8.10
1/4" or 3/8"	1/4"	2.15"	3/4"	SP24143814SH	11.59	9.30
3/8"	1/4"	2.15"	3/4"	SP24003814SH	10.08	8.10

Arbor Adapter, Nut Type						
Arbor Hole	Shank	Length	Washer OD	Order No.	Regular Price	SALE
1/4"	1/4"	2.50"	1"	SP24001414NT	9.53	7.65
3/8"	1/4"	2.50"	1"	SP24003814NT	9.53	7.65
1/2"	1/4"	2.50"	1 1/2"	SP24001214NT	10.36	8.95

696

Flat Head Wheel Arbors

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



Arbor Hole	Max. Wheel Width	Shank Diameter	Overall Length	Order No.	Regular Price	SALE
1/2"	1/2"	1/4"	2 5/16"	MM54FHL30	11.00	7.50
1/2"	3/8"	1/4"	1 7/8"	MM54FHL25X	6.99	4.50
1/2"	7/8"	1/4"	2 5/16"	MM54FHL30X	7.45	4.50
1/4"	3/4"	3/16"	1 3/4"	MM54FHL8X	12.10	7.95
3/8"	3/8"	1/4"	1 5/8"	MM54FHL10X	6.58	4.50
5/8"	3/8"	1/4"	1 7/8"	MM54FHL50X	13.90	9.50

364

SUPERIOR ABRASIVES Quick Change Disc Holders

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



Diameter	Order No.	Regular Price	SALE
3"	MM5964113	22.98	16.95
2"	MM5964198	18.20	13.95
2"	MM5964922	18.22	13.95
3"	MM5964949	23.01	16.95

25121

SURF PRO Air Cooled Quick Change Holder Pads

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



Diameter	Disc Mount	Order No.	Regular Price	SALE
1 1/2"	TR	SP24QCH15TR14SC	16.16	10.95
1 1/2"	TS	SP24QCH15TS14SC	16.16	10.95
2"	TR	SP24QCH20TR14SC	16.86	10.95
2"	TS	SP24QCH20TS14SC	16.86	10.95
3"	TR	SP24QCH30TR14SC	18.92	11.95
3"	TS	SP24QCH30TS14SC	18.92	11.95
4"	TR	SP24QCH40TR14SC	30.46	19.95
4"	TS	SP24QCH40TS14SC	30.46	19.95

25166

CGW Z3 XL Zirconia Compact Trimmable Flap Discs with Built in Hub

- Built in hub allows for easy off/on and closer disc placement to the tool
- Z3 (Zirconia) for fast, long-lasting grinding
- Ideal for heavy duty applications



Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	5/8"-11	40	13,300	MG9030142	12.82	9.95
4-1/2"	5/8"-11	60	13,300	MG9030144	12.30	9.95
4-1/2"	5/8"-11	80	13,300	MG9030145	12.09	9.95
4-1/2"	5/8"-11	120	13,300	MG9030146	11.52	8.95
5"	5/8"-11	40	12,200	MG9030152	13.52	10.95
5"	5/8"-11	60	12,200	MG9030154	12.64	9.95
5"	5/8"-11	80	12,200	MG9030155	13.07	9.95
5"	5/8"-11	120	12,200	MG9030156	10.72	8.95
6"	5/8"-11	40	10,200	MG9030162	20.35	15.95
6"	5/8"-11	60	10,200	MG9030164	19.51	15.95
6"	5/8"-11	80	10,200	MG9030165	15.80	12.95
6"	5/8"-11	120	10,200	MG9030166	15.38	11.95

227

3M Utility Cloth Shop Rolls

314D

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



		1"			1 1/2"			2"		
Grit	Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
80	50 yard	TM1219792	62.98	49.95	TM1219811	88.19	63.95	TM1219823	113.38	86.95
100	50 yard	-	-	-	-	-	-	TM1219822	108.11	82.95
120	50 yard	TM1219790	60.88	44.95	TM1219809	85.02	61.95	TM1219821	108.11	82.95
150	50 yard	TM1219789	60.88	44.95	TM1219808	85.02	61.95	TM1219820	108.11	82.95
180	50 yard	TM1219788	60.88	44.95	TM1219807	85.02	61.95	TM1219819	108.11	82.95
220	50 yard	TM1219787	60.88	44.95	TM1219806	85.02	61.95	TM1219818	108.11	82.95
240	50 yard	TM1219786	60.88	44.95	TM1219805	85.02	61.95	TM1219817	108.11	82.95
280	50 yard	TM1219785	60.88	44.95	-	-	-	-	-	-
400	50 yard	TM1219783	60.88	44.95	-	-	-	-	-	-

22615

ABRASIVES

SURF PRO Aluminum Oxide Shop Rolls

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



Grit	1"				1 1/2"				2"			
	Order No.	Reg-ular Price	SALE		Order No.	Reg-ular Price	SALE		Order No.	Reg-ular Price	SALE	
-	-	-	-		-	-	-		SP12SR-20CRO	85.43	63.95	
40	SP12S-R10040A	24.96	18.95		SP12S-R15040A	32.45	23.95		SP12S-R20040A	46.79	34.95	
50	SP12S-R10050A	24.46	16.95		SP12S-R15050A	31.77	23.95		SP12S-R20050A	45.88	33.95	
60	SP12S-R10060A	23.68	17.95		SP12S-R15060A	30.86	24.95		SP12S-R20060A	44.51	32.95	
80	SP12S-R10080A	22.55	16.95		SP12S-R15080A	32.37	23.95		SP12S-R20080A	42.42	31.95	
100	SP12S-R10100A	21.94	15.95		SP12S-R15100A	31.76	23.95		SP12S-R20100A	41.11	30.95	
120	SP12S-R10120A	21.94	15.95		SP12S-R15120A	31.76	23.95		SP12S-R20120A	41.11	30.95	
150	SP12S-R10150A	21.98	15.95		SP12S-R15150A	28.81	23.95		SP12S-R20150A	37.33	30.95	
180	SP12S-R10180A	21.94	15.95		SP12S-R15180A	28.81	23.95		SP12S-R20180A	41.11	30.95	
220	SP12S-R10220A	21.98	15.95		SP12S-R15220A	28.81	23.95		SP12S-R20220A	41.11	30.95	
240	SP12S-R10240A	21.98	18.95		SP12S-R15240A	35.67	26.95		SP12S-R20240A	41.11	30.95	
320	SP12S-R10320A	21.98	15.95		SP12S-R15320A	35.67	26.95		SP12S-R20320A	41.11	30.95	
400	SP12S-R10400A	21.98	15.95		SP12S-R15400A	31.70	23.95		SP12S-R20400A	41.11	30.95	

25149

VSM Ceramic Resin Fibre Discs-XF870

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



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

Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4-1/2"	7/8"	24	VS10149133	5.23	3.95
4-1/2"	7/8"	36	VS10149134	5.11	3.95
4-1/2"	7/8"	50	VS10149135	4.61	3.50
4-1/2"	7/8"	60	VS10149136	4.42	3.50
4-1/2"	7/8"	100	VS10149131	4.09	2.95
4-1/2"	7/8"	120	VS10149132	4.09	2.95
7"	7/8"	24	VS10149148	7.12	5.05
7"	7/8"	36	VS10149149	6.93	4.95
7"	7/8"	50	VS10149151	6.49	4.95
7"	7/8"	60	VS10149152	6.18	4.95
7"	7/8"	100	VS10149146	5.84	4.50
7"	7/8"	120	VS10149147	5.84	4.50

30834

3M Scotch-Brite™ Roloc™ Surface Conditioning Discs

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



Diameter	Maximum RPM	Grade	Color	Standard Pack	Order No.	Regular Price	SALE
1"	30000	Medium	Maroon	200	TM2115392	1.77	1.50
1"	30000	Very Fine	Teal	200	TM2115391	1.77	1.50
1 1/2"	30000	Coarse	Brown	50	TM2108764	1.81	1.50
1 1/2"	30000	Medium	Maroon	50	TM2108765	1.81	1.50
1 1/2"	30000	Very Fine	Teal	50	TM2108766	1.81	1.50
2"	25000	Coarse	Brown	50	TM2105528	2.63	2.35
2"	25000	Medium	Maroon	50	TM2105527	2.63	2.35
2"	25000	Very Fine	Teal	50	TM2105523	2.63	2.35
3"	18000	Coarse	Brown	25	TM2105532	5.00	3.95
3"	18000	Medium	Maroon	25	TM2105531	5.00	3.95
3"	18000	Very Fine	Teal	25	TM2105530	5.00	3.95
4"	12000	Coarse	Brown	4	TM2312954	7.24	6.50

Holder: MM59-64922

142

NORTON BLAZE Belts for Portable Sanders

Blaze Belts

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



New Improved Y-Weight Polyester Cloth Back

- Better grain adhesion - edge fray resistance
- More consistent grind throughout extended belt life

Width	Length	Grit	Standard Pack	Order No.	Regular Price	SALE
1/2"	12"	40	200	MH61B0098018	4.89	3.50
1/2"	12"	60	200	MH61B0098019	4.69	3.40
1/2"	12"	80	200	MH61B0098020	4.53	3.20
1/2"	18"	40	200	MH61B0098021	5.25	3.80
1/2"	18"	60	200	MH61B0098022	4.92	3.50
1/2"	18"	80	200	MH61B0098023	4.75	3.40
1/2"	24"	40	200	MH61B0098024	5.71	4.10
1/2"	24"	60	200	MH61B0098025	5.38	3.80
1/2"	24"	80	200	MH61B0098026	4.92	3.50
3/4"	18"	40	200	MH61B0098027	5.84	4.20
3/4"	18"	60	200	MH61B0098028	5.48	3.90
3/4"	18"	80	200	MH61B0098029	5.13	3.70
3/4"	20-1/2"	40	200	MH61B0098030	5.98	4.30
3/4"	20-1/2"	60	200	MH61B0098031	5.71	4.10
3/4"	20 1/2"	80	200	MH61B0098032	5.42	3.90

10727

3M 6" x 9" Scotch-Brite™ Hand Pads

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



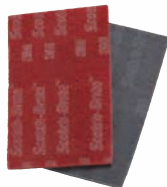
Width	Length	Color	Grade	Standard Pack	Order No.	Regular Price	SALE
3 1/2"	4 1/2"	Gray	Fine	-	TM2202604	7.84	5.95
3 2/3"	9 1/4"	Maroon	Very Fine	100	TM2264958	4.70	3.95
6"	9"	Tan	Coarse	20	TM2265055	8.70	6.95
6"	9"	Tan	Medium	40	TM2218451	346.18	253.95
6"	9"	Gray	Medium	20	TM2265056	5.86	4.95
6"	9"	Maroon	Ultra Fine	20	TM2264933	9.39	6.95
6"	9"	Maroon	Very Fine	20	TM2264926	3.23	2.50
6"	9"	Gray	Super Ultra Fine	20	TM2264935	3.23	2.50
6"	9"	Maroon	Very Fine	20	TM2204029	3.23	2.50
6"	9"	Light Gray	Ultra Fine	20	TM2204028	4.48	3.95

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

135

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

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



Width	Length	Grade	Style	Order No.	Regular Price	SALE
6"	9"	Very Fine	7447 PRO	TM2264926	3.23	2.50
6"	9"	Super Ultra Fine	7448 PRO	TM2264935	3.23	2.50
6"	9"	Ultra Fine	7447 & 7448 PRO	TM2264933	9.39	6.95

22313

NORTON Flexible Diamond Hand Pads

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



Width	Length	Grit	Color	Order No.	Regular Price	SALE
2 1/8"	3 1/2"	400	Yellow	MH63HP05852	41.96	39.50
2 1/8"	3 1/2"	60	Green	MH63HP06360	79.72	75.25
2 1/8"	3 1/2"	120	Black	MH63HP06361	68.37	64.50
2 1/8"	3 1/2"	200	Red	MH63HP06362	55.90	52.50
2 1/8"	3 1/2"	800	White	MH63HP06363	41.96	39.50
2 1/8"	3 1/2"	1800	Blue	MH63HP06364	41.96	39.50

24138

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

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



Color	Abrasive Material	Order No.	Regular Price	SALE
Maroon	Aluminum Oxide	MH62HP747	2.79	2.00
Gray	Silicon Carbide	MH62HP748	2.69	1.90

24143

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

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



Grit	Order No.	Regular Price	SALE
60	SP12S911060S	1.07	0.85
80	SP12S911080S	1.02	0.80
120	SP12S911120S	0.99	0.75
150	SP12S911150S	0.78	0.60
180	SP12S911180S	0.74	0.55
220	SP12S911220S	0.74	0.55
240	SP12S911240S	0.64	0.50
280	SP12S911280S	0.74	0.55
320	SP12S911320S	0.70	0.50
360	SP12S911360S	0.70	0.50
400	SP12S911400S	0.70	0.50
500	SP12S911500S	0.70	0.50
600	SP12S911600S	0.70	0.50
1000	SP12S9111000S	0.74	0.55

10739

NORTON Silicon Carbide Bench Wheels

Features:

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

Silicon Carbide Grit Range:

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



Diameter - 6", Width - 1/2", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	MH60060036571	70.36	51.95
Medium Grit	4,140	1	MH60060036572	70.36	51.95
Fine Grit	4,140	1	MH60060036573	70.36	51.95

Diameter - 6", Width - 1", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	MH60060037187	87.19	64.95
Medium Grit	4,140	1	MH60060037193	87.19	64.95
Fine Grit	4,140	1	MH60060037194	87.19	64.95

Diameter - 6", Width - 3/4", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	MH60060037190	75.42	55.95
Medium Grit	4,140	1	MH60060037191	75.42	55.95
Fine Grit	4,140	1	MH60060037192	75.42	55.95

Diameter - 7", Width - 1", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	3,600	1	MH60070042300	106.54	78.95
Medium Grit	3,600	1	MH60070042301	106.54	78.95
Fine Grit	3,600	1	MH60070042302	106.54	78.95

24160

ABRASIVES

SURF PRO Bench & Pedestal Grinding Wheels - Aluminum Oxide

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



Diameter	Width	Arbor Hole	Grit	Order No.	Regular Price	SALE
6"	3/4"	1"	36	SP01063041A036O	34.84	20.95
6"	3/4"	1"	60	SP01063041A060M	34.84	20.95
6"	3/4"	1"	80	SP01063041A080M	34.84	20.95
6"	1"	1"	36	SP01064041A036O	40.11	23.95
6"	1"	1"	60	SP01064041A060M	40.11	23.95
6"	1"	1"	80	SP01064041A080M	40.11	23.95

Also available in 7" & 8" diameter.

25150

SURF PRO Bench & Pedestal Grinding Wheels - Silicon Carbide

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



Diameter	Arbor Hole	Thickness	Grit	Order No.	Regular Price	SALE
6"	1"	3/4"	60	SP01063041G060I	43.55	25.95
6"	1"	3/4"	80	SP01063041G080I	43.55	25.95
6"	1"	3/4"	100	SP01063041G100I	43.55	25.95
6"	1"	1"	60	SP01064041G060I	48.05	26.95
6"	1"	1"	80	SP01064041G080I	48.05	26.95
6"	1"	1"	100	SP01064041G100I	48.05	26.95

Also available in 7" & 8" diameter.

25152

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

Use with Right Angle Air/Electric Grinders

A24 N Grade

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

A24 R Grade

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



				A24R			A24N		
Diameter	Width	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	1/4"	7/8"	13,300	MG4120063	4.64	3.50	MG4120060	4.64	3.50
4 1/2"	1/4"	5/8"-11"	13,300	MG4120163	8.21	5.95	MG4120160	8.21	5.95

25344

CGW Felt / Cotton Buffing Flap Discs - Type 27

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



Diameter	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	7/8"	13,300	MG9049698	27.64	21.95
5"	7/8"	12,200	MG9049699	32.05	24.95

216

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

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



		Arbor Hole - 7/8"			Arbor Hole - 5/8"-11"		
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	13,000	MK5131343	7.62	5.95	-	-	-
40	13,000	MK5131387	10.83	7.95	MK5131390	13.06	9.95
60	13,000	MK5131345	7.62	5.95	MK5131409	9.67	7.95
60	13,000	MK5131388	10.83	7.95	MK5131410	9.67	7.95
80	13,000	MK5131389	10.83	7.95	-	-	-

804

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

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



		Type 29			Type 27		
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	13,300	SP11FD457A9036Z	4.68	3.50	SP11FD457A7036Z	4.68	3.50
40	13,300	SP11FD457A9040Z	4.68	3.50	SP11FD457A7040Z	4.68	3.50
60	13,300	SP11FD457A9060Z	4.68	3.50	SP11FD457A7060Z	4.68	3.50
80	13,300	SP11FD457A9080Z	4.68	3.50	SP11FD457A7080Z	4.68	3.50

Also available in trimmable back and zirc plus.

22377

STRAUSS & CO. 5 Pc. NF File Sets

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



Grade	Order No.	Regular Price	SALE
Coarse	MN51C4205	150.35	112.95
Fine	MN51F4205	150.35	112.95
Medium	MN51M4205	150.35	112.95

613

SURF PRO Wheel Dresser Sticks

Rapid, economical way to dress grinding wheels.



Width	Thickness	Overall Length	Order No.	Regular Price	SALE
1"	1"	6"	MJ55116	9.36	5.95
1"	1"	8"	MJ55118	11.54	8.95

25467

CRATEX® 84 Pc. Rubberized Abrasive Kit

Contents Includes:

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



Order No.	Regular Price	SALE
MG64777	203.44	153.95

23009

SURF PRO Economy Diamond Wheel

Dressers

- For dressing vitrified grinding wheels



Diamond Carat Size	Shank Diameter - 3/8", Shank Length - 3"			Shank Diameter - 7/16", Shank Length - 3"		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	MN45ED025A	9.27	6.95	MN45ED025B	9.27	6.95
1/2"	MN45ED050A	15.24	10.95	MN45ED050B	15.24	10.95
1"	MN45ED100A	29.86	20.95	MN45ED100B	29.86	20.95
1-1/2"	MN45ED150A	46.82	32.95	MN45ED150B	46.82	32.95
2"	MN45ED200A	57.82	40.95	MN45ED200B	57.82	40.95

674

SURF PRO Brake Controlled Truing Device

For Diamond and CBN Wheels

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



ProductName	Order No.	Regular Price	SALE
3" x 1" Brake Controlled Truing Device Replacement Wheel	MG753100	25.06	14.95
For Use On: Diamond & Carbon Wheels - Brake Truing Device	NP55DT100	479.17	383.95

658

SURF PRO 25 Pc. Rubber Sanding Drum Set

Contains 1 Each:

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



Order No.	Regular Price	SALE
MM54SDK25	39.17	28.95

689

SUPERIOR Surface Conditioning Quick Change Discs

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



		Surface Conditioning		
Diameter	Grade	Order No.	Regular Price	SALE
1-1/2"	CRS	MM6410550	1.69	1.50
2"	CRS	MM6410544	2.21	1.50
2"	MED	MM6410554	2.16	1.50
2"	VFN	MM6410546	2.16	1.50
3"	CRS	MM6410547	3.82	2.50
3"	MED	MM6410548	3.70	2.50
3"	VFN	MM6410549	3.70	2.50

10738

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

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

3M Scotch-Brite™ Bristle Discs for Angle Grinders

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



Diameter	Grit	Maximum RPM	Color	Standard Pack	Order No.	Regular Price	SALE
4 1/2"	120	12,000	White	40	TM3124243	58.28	48.95
4 1/2"	50	12,000	Green	40	TM3124241	58.28	48.95
4 1/2"	80	12,000	Yellow	40	TM3124242	58.28	48.95

128



Micro Deburring Set

Model FT3000

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



Order No.	Regular Price	SALE
FN55FT3000	48.24	35.95

10093

WELDING

Protective Welding Sleeves

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



RT5810345



RT5813118

Length	Material	Color	Order No.	Regular Price	SALE
18"	Cotton	Green	RT5810345	14.08	10.95
18"	Fibers	Black	RT5813118	103.10	77.95

30751

High Temperature Work Gloves

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



Maximum Temperature	Order No.	Regular Price	SALE
600 Degrees F	RT5808314	108.07	81.95
2000 Degrees F	RT5807114	186.74	140.95

30852

7018 Mild Steel Electrodes

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



Diameter	Length	Container Type	ManufacturerNo	Order No.	Regular Price	SALE
3/32"	14"	5 Lb Package	7018505	HR7120240	7.48	5.95
1/8"	14"	5 Lb Package	7018605	HR7120250	7.01	5.95
5/32"	12"	5 Lb Package	7018705	HR7120260	7.01	5.95
3/32"	12"	10 Lb Package	70185010	HR7120270	7.01	5.95

2656

HMD Medium Duty Acetylene Outfit

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



Includes	ManufacturerNo	Order No.	Regular Price	SALE
Goggles, Striker, 20' x 1/4" Hose, Insulated Tool Bag	4400366	HR7010120	460.50	342.95

2665

Alloy 5356 (MIG)

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



Wire Size	Container Size	ManufacturerNo	Order No.	Regular Price	SALE
0.0300"	1 lbs.	05356E1	HR7120430	25.65	19.95
0.0350"	1 lbs.	05356F1	HR7120440	18.64	13.95
0.0350"	16 lbs.	05356F6	HR7120450	17.81	13.95
3/64"	1 lbs.	535621	HR7120460	17.86	13.95
3/64"	16 lbs.	535627	HR7120470	16.31	12.95

Price Per Pound

2659

Weller® Professional Solder Gun Kits

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



Order No.	Regular Price	SALE
RT50D550PK	131.44	104.95

3226

PRM PRO® Tungsten Electrodes

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



Pure



2% Ceriated



1.5% Lanthanated



E3

	Pure			2% Ceriated			1.5% Lanthanated			E3		
Size	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
1/16"	WE101167G	26.96	18.95	WE101167GC2	29.63	20.95	WE101167GL	28.21	19.95	WE101167000	24.82	17.95
3/32"	WE103327G	53.49	37.95	WE103327GC2	5.92	4.95	WE103327GL	56.47	39.95	WE103327000	48.71	33.95
1/8"	WE10187G	91.09	63.95	WE10187GC2	100.50	69.95	WE10187GL	95.73	66.95	WE10187000	84.07	58.95

2910

PRM PRO® 26 Series Tig Torch Packages

- 200 Amp Air-cooled



Type	Length	Includes	Order No.	Regular Price	SALE
Flex Torch Package	25'	Power Cable, Torch, Handle, Back Cap	WE1026FV252	289.01	201.95
Flex Torch Package	25'	Power Cable, Torch, Handle, Back Cap	WE1026FV25R	270.37	188.95

2904

TITAN Welding Helmets

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



Order No.	Regular Price	SALE
KP8241279	235.30	187.95

25291

LINCOLN ELECTRIC ADF Helmet with Grind

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



LE01K34451



LE01K34191

View Height	View Width	Color	Order No.	Regular Price	SALE
1-3/4"	3.82"	Black	LE01K34191	169.42	148.95
1-3/4"	3.82"	Camo	LE01K34451	115.21	101.95

28750

LINCOLN ELECTRIC Black Cloth Welding Shirts

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



		Khaki			Black		
Size	Material	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Medium	Cotton	LE01KH841M	71.73	62.95	LE01KH809M	71.73	62.95
Large	Cotton	LE01KH841L	71.73	62.95	LE01KH809L	71.73	62.95
X-Large	Cotton	LE01KH841XL	71.73	62.95	LE01KH809XL	71.73	62.95
2X-Large	Cotton	LE01KH841XXL	80.76	70.95	LE01KH809XXL	78.51	68.95

Pricing could change from the mfg please call for current pricing

28737

LINCOLN ELECTRIC Leather Welding Waist Apron

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



Size	Type	Color	Order No.	Regular Price	SALE
24" x 45"	Welding Apron	Brown	LE01KH804	53.08	46.95

29097

LINCOLN ELECTRIC Fire Resistant Black Welding Sleeves

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



Color	Material	Order No.	Regular Price	SALE
Black	Cotton	LE01KH813	17.29	15.50

29101

LINCOLN ELECTRIC 6" Fire Resistant Black Welding Doo Rag

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



Color	Material	Order No.	Regular Price	SALE
Black	Cotton	LE01KH822	11.52	9.05

29102

Lisle Magnetic Soldering Clamp

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



Order No.	Regular Price	SALE
KN6555000	29.72	23.95

2763

POWER TOOLS

Locking Air Tool Holder

Organize air tools with the lockable tool holder

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



Order No.	Regular Price	SALE
KN6549960	45.92	36.95

2274

High Flow Filter/Regulator

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



Port Size	Flow Rate	Order No.	Regular Price	SALE
3/8"	65 SCFM	PF5330003	143.47	135.95

1964

Retractable Air Hose Reels

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



Hose ID	Hose Length	Order No.	Regular Price	SALE
1/2"	50 Feet	PJ72B12050AHR	290.78	216.95
3/8"	50 Feet	PJ72A38050AHR	250.63	186.95
1/2"	50 Feet	PJ72A12050AHR	284.31	211.95
1/2"	50 Feet	PJ72B012050AHR	331.74	246.95
3/8"	50 Feet	PJ72B038050AHR	300.92	223.95

1957

Dynafile® II Abrasive Belt Machine For 18" Long Belts

Model 40320

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

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



Belt Length	Belt Width	Maximum RPM	Horse-power	Air Inlet Size	Order No.	Regular Price	SALE
18"	3/4"	20,000	0.50 hp	1/4" NPT	PF3040320	1036.53	825.95

2166

'The Original' Dynafile® Abrasive Belt Machine

Model 14000

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



Belt Length	Belt Width	Maximum RPM	Horse-power	Air Inlet Size	Order No.	Regular Price	SALE
24"	1/2"	20,000	0.50 hp	1/4" NPT	PF3014000	1053.09	839.95

2167

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	1233.90	983.95

2149

Air Powered Grinders

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



PF50CP875



PF50CP872

Type	Features and Benefits	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Economy Die Grinder	22,000 RPM, 1/4" and 6mm collet, lock-off throttle, speed and power, precision control and safety, excellent tool for general high speed polishing and grinding	22,000	13 CFM	1/4" NPT	PF-50CP872	167.82	142.95
Right Angle	Mini angle grinder compact, lightweight design, 90° angle head allows flexibility in confined areas	22,500	11 CFM	1/4" NPT	PF-50CP875	164.69	124.95

28772



1/4 hp. RT. Angle Grinder 301B

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



Type	Type of Power	Collet/Chuck	Handle Type	Maximum RPM	Exhaust Type	Order No.	Regular Price	SALE
Air Die Grinder	Air	1/4"	Right Angle	21,000	Rear	PR55301B	176.67	129.95

30868



1/3 hp. Rt. Angle Grinder 302B

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



Type	Type of Power	Collet/Chuck	Handle Type	Maximum RPM	Exhaust Type	Order No.	Regular Price	SALE
Air Die Grinder	Air	1/4"	Right Angle	20,000	Rear	PR54302B	329.37	241.95

30889

PRM^{PRO} Air Die Grinders

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



Type	Features and Benefits	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Right Angle	Lever throttle for positive speed control, complete with collet wrenches	20,000	4 CFM	1/4" NPT	PJ60SM522	91.64	68.95
Straight	All ball bearing construction, lever throttle for positive speed control, complete with collet wrenches	22,000	4 CFM	1/4" NPT	PJ60DG1	51.03	38.95
Straight	Extended heavy duty spindle, lever type throttle	22,000	16 CFM	1/4" NPT	PJ60RG38A	131.05	97.95

22669



5" Dynorbital-Spirit™ Non Vacuum Random Orbital Sander

Model 59020

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

Specifications:

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



Disc Diameter	Type of Power	Air Inlet Size	Maximum RPM	Horsepower	Model No	Order No.	Regular Price	SALE
5"	Pneumatic	1/4" NPT	12,000	0.25 hp	59020	PF3359020	429.24	338.95

2180



Air Powered Sanders

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



Sander Type	Features	Disc Diameter	Maximum RPM	Air Inlet Size	Order No.	Regular Price	SALE
Palm	Redi power grip for better handling, speed regulator, PSA mount, swivel rear exhaust, low vibration and noise, 5mm orbit no vacuum	5"	12,000	1/4" NPT	PF50CP3511	402.62	305.95
Angle, with handle	Balanced counter-weight design for low vibration sanding, full 1/2 HP motor, heavy duty ball bearing construction, built-in speed regulator	6"	9,600	1/4" NPT	PF50CP870	172.15	130.95

22948

POWER TOOLS



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

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



Inlet Size	Tip Type	Order No.	Regular Price	SALE
1/2"	High Flow	LT51TYP2500CS	42.89	32.95
1/4" NPT	High Flow	LT51TYP2501CS	68.22	50.95
3/8" NPT	High Flow Multi-Jet	LT51TYP3800MJ	86.11	64.95

1987

Air Supreme® Air Powered Impact Wrenches - 1/2" Drive



Order No.	Regular Price	SALE
PJ60I8500S2	130.45	97.95
PJ60I8500S2	130.45	97.95

Jet brand products not available in Canada.

22663

STEINEL UltraHEAT SV750 High Output Blower

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



Order No.	Regular Price	SALE
PD5534075	153.77	116.95

2361

Air Supreme® 26 Pc. Right Angle Grinder Surface Prep Kit

Kit Includes:

- (1) 20,000 RPM R/A Die grinder
- (5) 2" Conditioning discs
- (5) 3" Conditioning discs
- (1) 2" Roll on holders
- (1) 3" Roll on holders
- (1) 1/8" Collets
- (1) 1/4" Collets
- (1) 10 Pc. stone assortment
- (1) Blow molded case



Order No.	Regular Price	SALE
PJ752010	156.81	124.95

1961



2235TIMAX IMP WRCH 1/2 DR

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



Drive	Handle Type	Type	Type of Power	Maximum RPM	Torque	Air Inlet Size	Average Air Consumption	Impacts per Minute	Drive Type	Order No.	Regular Price	SALE
1/2"	Pistol Grip	Air Impact Wrench	Air	8,500	930 feet/lbs	1/4" NPT	24 cfm	1,220	Square	PR552235TiMAX	881.95	646.95

30866

TITAN Folding Knife with Locking Jaw Wrench

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



Length Closed	Length Open	Order No.	Regular Price	SALE
6"	9"	KP8211110	50.85	35.95
6"	9"	KP8211110	50.85	35.95

Available while supplies last

7904

wiha Soft Grip Side Drive Balldriver T-Handles

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



Hex Key			
Ball End Size	Order No.	Regular Price	SALE
5/64"	KN5433418	9.28	6.95
3/32"	KN5433420	9.28	6.95
7/64"	KN5433422	9.68	6.95
1/8"	KN5433424	9.68	6.95
9/64"	KN5433426	9.68	6.95

Dual Drive Ball End Hex			
Ball End Size	Order No.	Regular Price	SALE
5/32"	KN5433428	9.68	6.95
3/16"	KN5433430	10.84	7.95
7/32"	KN5433432	12.33	8.95
1/4"	KN5433433	14.24	9.95
5/16"	KN5433439	17.54	11.95
3/8"	KN5433440	24.33	15.95

7996

PRM PRO Dead Blow Hammers

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



Head Weight	Head Diameter	Head Length	Overall Length	Order No.	Regular Price	SALE
1LB	1-7/16	3-5/8	11-3/4	PR0210100	35.03	24.95
1.5LB	1-7/8	3-5/8	12	PR0210150	40.87	28.95
2LB	2	4	13	PR0210200	46.71	32.95
2.5LB	2-1/4	4-1/4	14-1/2	PR0210250	54.15	37.95
3LB	2-1/2	4-5/8	15	PR0210300	39.68	27.95
3.5LB	2-5/8	5	15-1/2	PR0210350	42.59	29.95
6LB	3-5/8	6	36-1/2	PR0210600	142.09	99.95
10LB	4	8	36-7/8	PR0211000	189.44	132.95

* 6 lbs and 10 lbs have yellow fiberglass handle

22449

LFI Die Setter Bars

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



Overall Length	Thickness	Order No.	Regular Price	SALE
18"	5/8"	KS517035	56.39	42.95
30"	3/4"	KS517037	78.46	58.95

23682

PRM PRO Pinch Bars

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



Overall Length	Order No.	Regular Price	SALE
14"	LC715031	12.76	8.95
18"	LC717794	14.74	10.95
20"	LC715032	16.67	11.95
24"	LC717795	19.18	13.95

6947

STANLEY Folding Utility Knife

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



Overall Length	Blade Length	Manufacturer No	Order No.	Regular Price	SALE
5 3/4"	2 7/16"	10-855	KP431950	25.82	18.95

7745

WILLIAMS Utility Knives

with Autoload Quick Blade

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



Order No.	Regular Price	SALE
KP3040052	31.07	20.95

25009

IRWIN VISE-GRIP "The Original" Locking Pliers

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



Curved						
Overall Length	Jaw Capacity	Jaw Thickness	Wire Cutter	Order No.	Regular Price	SALE
4"	15/16"	1/4"	Yes	KX504WR	24.35	17.95
5"	1 1/8"	1/4"	Yes	KX505WR	34.31	23.95
7"	1 1/2"	5/16"	Yes	KX507WR	35.21	24.95
7"	1 5/8"	5/16"	-	KX507CR	35.21	24.95
10"	1 7/8"	3/8"	Yes	KX5010WR	35.86	25.95
10"	1 7/8"	3/8"	-	KX5010CR	35.86	25.95

Straight						
Overall Length	Jaw Capacity	Jaw Thickness	Wire Cutter	Order No.	Regular Price	SALE
7"	1 5/16"	5/16"	No	KX507R	35.21	24.95
10"	1 3/4"	7/16"	No	KX5010R	35.86	25.95

6796

HAND TOOLS

STANLEY 4 Pc. Bi-Material Pliers Set

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

Set Includes:

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



Model No	Order No.	Regular Price	SALE
84-058	KP433026	62.36	45.95

7700

WILLIAMS Locking Pliers Sets

Features

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



KP3023072



KP3023074



KP3023076

Number of Pieces	Set Includes	Order No.	Regular Price	SALE
3	5" Curved Jaw Locking Pliers with Cutter, 7" Curved Jaw Locking Pliers with Cutter, 10" Curved Jaw Locking Pliers with Cutter	KP3023072	43.10	28.95
4	5" Curved Jaw Locking Pliers with Cutter, 10" Curved Jaw Locking Pliers with Cutter, 6" Long Nose with Wire Cutter, 9" Long Nose with Wire Cutter	KP3023074	58.33	38.95
5	5" Curved Jaw Locking Pliers with Cutter, 7" Curved Jaw Locking Pliers with Cutter, 10" Straight Jaw, 9" Long Nose with Wire Cutter, 6" Locking C-Clamp	KP3023076	75.05	49.95

7590

WILLIAMS Heavy Duty Snap Ring Plier Set

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

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

Order No.	Regular Price	SALE
KP30PL529	365.76	240.95

24997

PROTO 18 Pc Small Ring Plier Set with Replaceable Tip

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



Tip Diameter	Model No	Order No.	Regular Price	SALE
0.120"	J361	KP4230760	250.26	182.95

7082

CRESCENT WISS Shears & Scissors

Easy Snip Utility Shears

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

Heavy Duty Industrial Shears

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

Electrician's Scissors

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



LA50175E5



LA5020
LA5022



LA50WEZSNIP

Overall Length	Blade Length	Type	Order No.	Regular Price	SALE
5"	1 3/4"	Electrician's Scissors	LA50175E5	39.65	27.95
8 1/2"	4"	Easy Snip Shears	LA50WEZSNIP	37.77	26.95
10 1/2"	4 3/4"	Heavy Duty Industrial Shears	LA5020	106.27	74.95
12 1/2"	6"	Heavy Duty Industrial Shears	LA5022	118.58	83.95

22564

WORLD CLASS QUALITY Transfer Punch Set

With Indexed Stand 1/2" thru 1" by 64ths - 33 Punches

- Heat treated tempered steel
- Black oxide finish



Order No.	Regular Price	SALE
KH55NTP33	161.22	104.95

7915

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	31.53	23.95

6647

MAYHEW Punch & Chisel Sets

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

Punch & Chisel Set - 14RC

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

All Sets Feature:

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



KS5045RC



KS5015RC



KS5014RC

Number of Pieces	Type	Sizes Included	Case	Model No	Order No.	Regular Price	SALE
5	Pin Punch Set	1/8 x 4-3/4, 5/32 x 5, 3/16 x 5-1/4, 1/4 x 5-3/4, 5/16 x 6	Vinyl Pouch	-	KS-5045RC	54.83	42.95
6	Chisel Set	1/4" x 5", 5/16" x 5", 3/8" x 5 1/2", 1/2" x 6", 5/8" x 6 1/2", 3/4" x 7"	Vinyl Pouch	60560	KS-5015RC	96.19	73.95
14	Punch & Chisel Set	1/4" x 5", 3/8" x 5 1/2", 1/2" x 6", 5/8" x 6 1/2", 3/4" x 7"	Vinyl Pouch	14RC	KS-5014RC	189.92	145.95

30676

Williams 6 Pc. Screw Extractor Set

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



Set Includes	Order No.	Regular Price	SALE
1/8", 3/16", 7/32", 5/16", 3/8", 15/32"	KP30EXS30	92.65	61.95

30233

Young Bros. Heavy Duty Combination Stamp Sets

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



Character Size	Square Size	Overall Length	Weight	Order No.	Regular Price	SALE
1/32"	1/4"	2 3/8"	2 lbs	KF5000363	318.83	238.95
1/16"	1/4"	2 3/8"	2 lbs	KF5001363	252.23	188.95
3/32"	5/16"	2 1/2"	3 lbs	KF5002363	252.23	188.95
1/8"	5/16"	2 1/2"	3 lbs	KF5003363	252.23	188.95
5/32"	3/8"	2 3/4"	4 lbs	KF5004363	283.97	212.95
3/16"	3/8"	2 3/4"	4 lbs	KF5005363	299.16	223.95
1/4"	7/16"	3"	6 lbs	KF5006363	344.70	257.95
5/16"	1/2"	3"	8 lbs	KF5007363	431.32	322.95
3/8"	9/16"	3 1/8"	11 lbs	KF5008363	495.14	369.95
1/2"	3/4"	3 3/4"	28 lbs	KF5009363	788.09	588.95

8077

Wiha TORX® & TorxPlus® Wing Handle Sets

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



KN5436592

KN5436590

Number of Pieces	Driver Style	Order No.	Regular Price	SALE
7	Torx	KN5436590	38.54	25.95
7	TorxPlus	KN5436592	38.54	25.95

25522

APEX Hex Drive Magnetic Nut Setters

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



Tip Size	Drive Size	Overall Length	Model No	Order No.	Regular Price	SALE
3/16"	1/4"	3"	M6N-0806-3	KW7061015	50.80	36.95
1/4"	1/4"	2"	M6N-0808-2	KW7061020	48.88	35.95
1/4"	1/4"	3"	M6N-0808-3	KW7061025	52.86	37.95
5/16"	1/4"	3"	M6N-0810-3	KW7061030	54.94	39.95
5/16"	1/4"	6"	M6N-0810-6	KW7061035	65.28	46.95
3/8"	1/4"	3"	M6N-0812-3	KW7061040	60.85	43.95
3/8"	1/4"	6"	M6N-0812-6	KW7061045	72.36	51.95
7/16"	1/4"	3"	M6N-0814-3	KW7061050	64.54	46.95
1/2"	1/4"	3"	M6N-0816-3	KW7061055	67.04	48.95

6460

APEX Phillips Bits

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



Tip Size	Drive Size	Overall Length	Model No	Order No.	Regular Price	SALE
#1	1/4"	1"	440-1X	KW7060015	1.81	1.50
#2	1/4"	1 1/2"	440-215X	KW7060020	3.67	2.95
#2	1/4"	2"	440-22X	KW7060025	3.77	2.95
#2	1/4"	1"	440-2X	KW7060035	1.81	1.50
#3	1/4"	1"	440-3X	KW7060040	1.81	1.50
#4	1/4"	1 5/16"	440-4X	KW7060045	6.24	4.50
#2	5/16"	1 1/4"	480-2X	KW7060065	3.53	2.50
#3	5/16"	1 1/4"	480-3X	KW7060075	3.53	2.50

6465

Stanley 8 Pc. Cushion Grip Screwdriver Set

- Bi-material handle for comfort and control
- Smooth-domed end for fast spinning action
- Black oxide tips for precise fit into fasteners
- Magnetic tips for secure grip on fasteners
- Chrome-plated bars for corrosion resistance
- Tip identification on handles for easy selection



Included	Model No	Order No.	Regular Price	SALE
Standard 1/8" x 6", 3/16" x 4", 1/4" x 4", 5/16" x 6"; Phillips 0 Pt. x 4", 1 Pt. x 4", 2 Pt. x 6", 3 Pt. x 6"	91-541	KP435000	39.45	28.95

7711

Williams 4 Pc. Mini Pick & Hook Set

Bi-Mold Comfort Grip Handles

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



Order No.	Regular Price	SALE
KP3040201	46.35	30.95

7549

Wiha Cushion Grip Equipment Screwdriver Sets

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



Number of Pieces	Sizes Included	Order No.	Regular Price	SALE
5	Slotted: 3 mm, 4 mm, 6.5 mm, Phillips: #1, Phillips Measure Up #2	KN5430295	71.10	46.95
8	Slotted: 3 mm, 4 mm, 5.5 mm, 6.5 mm, 8 mm, Phillips: #1, #2, #3	KN5430298	118.36	77.95
20	Slotted: 3, 4, 5.5, 6.5, 8 mm, Phillips: #0, #1, #2, Square: #1, #2, #3, Pozidriv: #1, #2, Torx: T6, T8, T10, T15, T20, T25, T30	KN5430299	250.80	163.95

25498

Wiha Slotted & Phillips Screwdrivers

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



KN5430298

KN5453390

Number of Pieces	Order No.	Regular Price	SALE
8	KN5430298	118.36	77.95
5	KN5453390	152.96	99.95

25518

HAND TOOLS

CDI TORQUE

Micro-Adjustable Torque

Screwdrivers

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



Minimum Torque	Maximum Torque	Increments	Order No.	Regular Price	SALE
10 cNm	80 cNm	1 cNm	KL4561NSM	456.18	363.95
40 cNm	200 cNm	2 cNm	KL4515NSM	466.62	371.95
50 cNm	450 cNm	5 cNm	KL45401NSM	488.93	389.95
3 inch/lbs	15 inch/lbs	0.2 inch/lbs	KL4515ISM	466.62	371.95
5 inch/lbs	40 inch/lbs	0.5 inch/lbs	KL45401SM	488.93	389.95
20 inch/oz	100 inch/oz	1 inch/oz	KL4561SM	465.07	370.95

7489

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



Drive Size	Overall Length	Head Style	Handle Type	COO	Order No.	Regular Price	SALE
1/4"	5"	Round, Pear, Flex Head, & Open Head	Smooth	Taiwan	KP3030001	38.24	25.95
3/4"	20"	Narrow Pear	Plain	China	KP30H51B	268.46	176.95
3/8"	9 3/4"	Narrow Pear	Smooth	USA	KP30B52EHFB	114.90	75.95

7598

WILLIAMS

72 Pc. Tools Bits Set

Features:

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



Set Includes	Order No.	Regular Price	SALE
Bits included: Hex, Phillips, Square, Slotted, Pozzi-Drive, Torx®, Nut Drivers, Magnetic Holder, Cones in 1 & 2" lengths	KP3024900	125.49	82.95

24984

TITAN

148 Pc. Master Security Bit Set

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

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



Order No.	Regular Price	SALE
KP8216148	122.81	85.95

* Available while supplies last

7882

PROTO

38 Pc. Insert - Power Bit Set

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



Model No	Order No.	Regular Price	SALE
J61906	KP4250865	155.08	107.95

7155

PROTO

Drive Extensions

Full Polish

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



Drive Size	Overall Length	ManufacturerNo	Order No.	Regular Price	SALE
1/4"	2"	J4759	KP4240525	11.30	8.95
1/4"	3"	J4760	KP4240530	15.29	11.95
1/4"	6"	J4761	KP4240535	15.99	12.95
3/8"	3"	J5260	KP4240565	16.70	12.95
3/8"	6"	J5260-06	KP4240570	21.09	14.95
3/8"	8"	J5261	KP4240575	23.02	17.95
3/8"	12"	J5262	KP4240580	25.54	19.95
1/2"	2 1/2"	J5460	KP4240600	21.17	16.00
1/2"	5"	J5461	KP4240605	25.39	20.95
1/2"	10"	J5463	KP4240610	32.24	24.95
1/2"	20"	J5464	KP4240615	53.47	38.95

7240

PROTO

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

Set

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

Note: Not for impact applications



Model No	Order No.	Regular Price	SALE
J5239P	KP4250875	46.12	33.95

7061



GEARWRENCH® 13 Pc. SAE Combination Ratcheting Wrench Set

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



Order No.	Regular Price	SALE
KP659312	458.74	322.95

6632

PRM PRO® Mill Hand Files- Professional Grade

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



Overall Length	2nd Cut			Bastard			Smooth		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	-	-	-	PR0410104	5.87	3.95	PR0410204	7.04	4.95
6"	PR0410006	7.45	5.95	PR0410106	6.00	4.95	PR0410206	7.52	5.95
8"	PR0410008	9.31	6.95	PR0410108	7.52	5.95	PR0410208	9.46	6.95
10"	PR0410010	11.32	7.95	PR0410110	10.43	7.95	PR0410210	12.70	8.95
12"	PR0410012	15.32	10.95	PR0410112	14.83	10.95	PR0410212	17.66	11.95
14"	-	-	-	PR0410114	22.91	15.95	PR0410214	28.37	19.95

28638



Steel Shim Stock

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



Thickness	Width	Length	Order No.	Regular Price	SALE
0.001"	6"	180"	MA5216700	76.10	49.95
0.0015"	6"	180"	MA5216705	76.10	49.95
0.010"	6"	180"	MA5216710	50.73	32.95
0.012"	6"	180"	MA5216715	51.35	33.95
0.015"	6"	180"	MA5216725	51.35	33.95
0.002"	6"	180"	MA5216740	49.07	31.95
0.020"	6"	180"	MA5216750	60.82	39.95
0.025"	6"	180"	MA5216760	62.30	40.95
0.003"	6"	180"	MA5216765	41.59	26.95
0.031"	6"	180"	MA5216775	66.62	43.95
0.004"	6"	180"	MA5216780	43.54	28.95
0.005"	6"	180"	MA5216785	38.66	28.95
0.006"	6"	180"	MA5216790	46.87	30.95
0.007"	6"	180"	MA5216795	46.87	30.95
0.008"	6"	180"	MA5216800	48.00	31.95

24417



Refractometers

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



Brix Scale	Order No.	Regular Price	SALE
0-10%	NZ6040000	115.94	70.95
0-32%	NZ6040005	143.54	87.95

8522



Economy Depth Micrometers

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



Measuring Range	Base Length	Order No.	Regular Price	SALE
0-4"	2 1/2"	NB60DM042	117.06	70.95
0-6"	4"	NB60DM064	109.91	66.95

28699



Round Bar Center Finder

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



Order No.	Regular Price	SALE
NE60RBCF38	14.57	8.95

4790

Mitutoyo Coolant Proof Micrometers

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



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

Minimum Measurement	Maximum Measurement	Thimble Type	Accuracy	Order No.	Regular Price	SALE
0"	1" / 25.4 mm	Ratchet	±0.00005"	MT80293-344-30	324.40	275.95
0"	1" / 25.4 mm	Friction	±0.00005"	MT80293-348-30	324.40	275.95
3" / 76.2 mm	4" / 101.6 mm	Ratchet	± 0.0001"	MT80293-347-30	558.37	474.95
1"	2"	Ratchet	±0.00005"	MT80293-345-30	394.74	335.95
2" / 50.8 mm	3" / 76.2 mm	Ratchet	±0.00005"	MT80293-346-30	518.18	439.95

4157

Mitutoyo QuantuMike Digital Outside Micrometers

- Resolution: 0.0005" / 0.001mm
- IP65 waterproof rated
- Quick acting spindle- 2X speed of standard spindle micrometers
- Ratchet thimble
- Carbide measuring
- Supplied with fitted plastic case and certificate of inspection



Measuring Range	Order No.	Regular Price	SALE
0-25.4 mm	MT80293-185-30	368.90	313.95
1"-2" / 25.4 mm-50.8 mm	MT80293-186-30	420.57	356.95
2"-3" / 50.8 mm-76.2 mm	MT80293-187-30	505.26	428.95

30920



Outside Micrometers

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



0.001"				
Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
0"	1"	NB60CM001	36.42	21.95

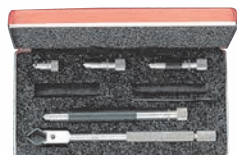
0.0001"				
Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
0"	1"	NB60CRM1	41.38	24.95
1"	2"	NB60CRM2	67.51	40.95
2"	3"	NB60CRM3	55.42	33.95
3"	4"	NB60CRM4	61.37	37.95
4"	5"	NB60CRM5	58.54	35.95
5"	6"	NB60CRM6	64.04	38.95
6"	7"	NB60CRM7	97.07	58.95
7"	8"	NB60CRM8	113.58	68.95
8"	9"	NB60CRM9	150.27	90.95
9"	10"	NB60CRM10	168.63	101.95
10"	11"	NB60CRM11	177.80	107.95
11"	12"	NB60CRM12	188.81	113.95

4733

MEASURING TOOLS

Starrett Tubular Inside Micrometers

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



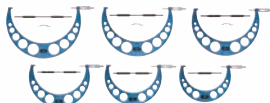
Measuring Range	Accuracy	Graduation	Order No.	Regular Price	SALE
1-1/2"-8"	0.0001"	0.001"	MV7053050	542.00	460.95
1-1/2"-12"	0.0001"	0.001"	MV7053052	651.00	553.95
4"-24"	0.0001"	0.001"	MV7053054	843.00	716.95
4"-32"	0.0001"	0.001"	MV7053055	934.00	793.95
4"-40"	0.0001"	0.001"	MV7053056	1013.00	861.95

4961

Fowler Micrometer Sets

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

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



Measuring Range	Model No	Order No.	Regular Price	SALE
0-6"	-	NA5552215006	597.02	447.95
0-12"	52-215-012-1	NA5552215012	1809.92	1357.95
6" - 12"	52-215-612-1	NA5552215612	1194.03	1015.00

3517

Fowler 5 Pc. Technical Measuring Set

Set consists of 1 of each:

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



Order No.	Regular Price	SALE
NE60TMS001	18.61	11.95

4393

Fowler Long Range Dial Calipers

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



Measuring Range	Order No.	Regular Price	SALE
0-18"	NA5552008018	448.40	336.95
0-24"	NA5552008024	543.37	407.95

3667

Fowler Shockproof Dial Calipers

with Thumb Roll

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



Measuring Range	Order No.	Regular Price	SALE
0-6"	NA5552008706	141.80	106.95
0-6"	NA5552008707	141.80	106.95
0-8"	NA5552008708	170.27	127.95
0-12"	NA5552008712	228.95	171.95

3708

INSIZE 6" Dial Caliper

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



Model No	Measuring Range	Order No.	Regular Price	SALE
1311-12	0 - 12"	SZ20131112	219.45	160.95
1311-6	0-6"	SZ20131116	98.54	71.95
1311-8	0 - 8"	SZ20131118	124.63	95.95

3939

Mitutoyo Digimatic Calipers

Non-SPC Output with Absolute Encoder

- Zero-setting of the display position (incremental mode)
 - Large LCD digits
 - .0005" / 0.01mm Resolution
 - Scale contamination detection function
- Specifications:**Function: ORIGIN Setting ZERO/ABS, ON/OFF - Inch/Metric



Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	MT80500-196-30	254.07	215.95
0-8" / 0-200 mm	MT80500-197-30	366.03	310.95
0-12" / 0-300 mm	MT80500-193-30	757.32	643.95

4126

PROCHECK PREMIUM Premier Electronic Calipers

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



Measuring Range	Order No.	Regular Price	SALE
0-6"/150mm	PC20EDC6	98.09	59.95
0-8"/200mm	PC20EDC8	108.57	65.95
0-12"/300mm	PC20EDC12	181.06	109.95

4572

PROCHECK PREMIUM Stainless Steel Dial**Calipers**

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



Measuring Range	Graduation	Order No.	Regular Price	SALE
0-6"	0.001"	PC21CDC6	89.91	54.95
0-6"	0.001"	PC21CDC6B	89.91	54.95
0-6"	0.001"	PC21CDC6CJ	163.29	98.95
0-6"	0.001"	PC21CDC6EM	95.42	57.95
0-150 mm	0.02 mm	PC21CDC6M1	95.42	57.95
0-6"/0-150mm	0.001" / 0.02 mm	PC21CDC6M2	126.62	76.95
0-8"	0.001"	PC21CDC8	90.53	54.95
0-12"	0.001"	PC21CDC12	131.09	79.95

†PC21CDC6EM Metric on scale only

4812

Fowler Electronic Calipers

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



Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	NA55541011501	84.23	63.95
0-12" / 0-300 mm	NA55541013001	168.13	150.05

3791

PROCHECK Axial Support with Dovetail - 3/8" Shank

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



Order No.	Regular Price	SALE
PC21AS38DT	33.03	19.95

4453

PROCHECK Caliper Anvil Attachment

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



Order No.	Regular Price	SALE
NB75Z9050	41.50	25.95

4707

PROCHECK Micrometer Stand

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



Order No.	Regular Price	SALE
NB64247000	35.51	21.95

4713

PROCHECK Premium Quill Clamp Indicator Holder

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



Order No.	Regular Price	SALE
PC21QC1	93.33	56.95

4775

PROCHECK Test Indicator Accessory Kit

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



Order No.	Regular Price	SALE
PC21TIAKT1	94.40	56.95

4829

PROCHECK Universal Test Indicator Dovetail Stem

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



Order No.	Regular Price	SALE
PC21DTS532	36.35	21.95

4869

LANC CAT III Digital Multimeter Kit

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



Order No.	Regular Price	SALE
KL4013803	206.87	155.95

3998

MEASURING TOOLS



6 Pc. Hardness Testing Files

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



Order No.	Regular Price	SALE
NR50FHC6	180.12	110.95

3884



Small Hole Gage Set

1/8"-1/2" Range

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



Order No.	Regular Price	SALE
NN40290200	31.01	18.95

4802



12" Telescoping Gages

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



Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
5/16"	1/2"	PC24TSG1P12	18.76	11.95
1/2"	3/4"	PC24TSG2P12	18.76	11.95
3/4"	1 1/4"	PC24TSG3P12	18.76	11.95
1 1/4"	2 1/8"	PC24TSG4P12	25.08	15.95
2 1/8"	3 1/2"	PC24TSG5P12	25.06	15.95
3 1/2"	6"	PC24TSG6P12	25.04	15.95

4368



5/16"-6" Telescoping Gage Set

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



Order No.	Regular Price	SALE
NN40290100	35.95	21.95

4411

Starrett® 567 Series Telescoping Gage Sets

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



Number of Pieces	Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
4	5/16" / 8.0 mm	2 1/8" / 54.0 mm	MV7052616	263.00	223.95
6	5/16" / 8.0 mm	6" / 150.0 mm	MV7052617	448.00	380.95

5150



Combination Square Blades - 4R

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



Blade Size	Order No.	Regular Price	SALE
12"	PC23B124C	28.37	17.95
18"	PC23B184C	34.85	21.95
24"	PC23B244C	48.37	29.95

4507

Starrett® Angle Meter

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



Order No.	Regular Price	SALE
MV8036080	34.27	21.75

4981



Multi-Use Rule and Gage

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



Order No.	Regular Price	SALE
NE60DPG1	14.67	8.95

4792

PRO-CHECK PREMIUM 12" Combination Square**Protractor Head**

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



Order No.	Regular Price	SALE
PC23PH12	68.39	41.95

4365

PRO-CHECK PREMIUM 2 Pc. Combination Square**Set**

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



Order No.	Regular Price	SALE
PC23CS1224	82.84	49.95

4374

CRESCENT Lufkin COMMAND CONTROL SERIES™
YELLOW CLAD TAPE MEASURE

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



Blade Length	Blade Width	Graduation	Order No.	Regular Price	SALE
16'	1-3/16"	1/16"	MZ50L1016C02	27.94	19.95
25'	1-3/16"	1/16"	MZ50L1025C02	36.98	26.95
25'	1-3/16"	1/10ths, 1/100ths, 1/16"	MZ50L1025CD02	38.17	26.95
8 m, 26'	1-3/16"	1/16"	MZ50L1025CB02	47.13	34.95
8 m, 26'	1-3/16"	1/16"/MM	MZ50L1025CME02	46.07	32.95
30'	1-3/16"	1/16"	MZ50L1030C02	47.85	33.95
35'	1-3/16"	1/16"	MZ50L1035C02	53.02	37.95
10 m, 33'	1-3/16"	1/16"/MM	MZ50L1035CME02	53.02	37.95

30815

PRO-CHECK Aspheric Magnifier

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



Order No.	Regular Price	SALE
KA53V341D	20.21	12.95

4452

PRO-CHECK LED 10X Optical Comparator**With 9 Reticles**

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



Order No.	Regular Price	SALE
PC22L10XLED9PCS	235.77	142.95

4661

PRO-CHECK Illuminated Magnifier

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



Order No.	Regular Price	SALE
PC223061	11.87	7.95

29744

Mitutoyo Radius Gage Sets

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



Number of Pieces	Minimum Radius	Maximum Radius	Order No.	Regular Price	SALE
25	1/64"	1/2"	MT80186-901	264.12	224.95
26	0.010"	0.500"	MT80186-906	266.99	226.95

4205

PRO-CHECK Screw Pitch Gages

Number of Leaves	Pitch Range	Order No.	Regular Price	SALE
30	4"-40"	NE60SP30	7.42	4.95
51	4"-84"	NE60SP51	21.78	13.95

4796

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

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



Order No.	Regular Price	SALE
MA5219740	93.36	61.95

1472

MEASURING TOOLS

Fowler X-TEST Horizontal Test Indicators

Features Twice the Test for Less

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



Dial Reading	Dial Face Diameter	Order No.	Regular Price	SALE
0-15-0	1 1/2"	NA5552562001	219.52	164.95
0-15-0	1.0"	NA5552562002	219.52	164.95
0-15-0	1.0"	NA5552562003	213.13	159.95

3775

Mitutoyo 1" Travel AGD 2 Dial Indicator

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



Order No.	Regular Price	SALE
MT802416S	163.86	164.95

4078

Mitutoyo Test Indicator with Ruby Stylus

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

Specifications:

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



Order No.	Regular Price	SALE
MT80513-472-10E	235.41	199.95

4228

PROCHECK PREMIUM Z-Axis Setter with Magnetic Base

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



Order No.	Regular Price	SALE
PC21ZAS4CNCM	295.28	178.95

29758

PROCHECK PREMIUM Procheck Electronic Indicators - Certified

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



Total Range	Resolution	Description	Order No.	Regular Price	SALE
1"	0.0005"	Certified	PC20E-I0112505C	110.24	66.95
1/2"	0.0005"	Certified	PC20E-I0512505C	109.10	65.95

30767

PROCHECK PREMIUM Procheck Dial Indicators - Certified

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



Indicator Style	Total Range	Dial Color	Dial Reading	Dial Size	Graduation	Description	Order No.	Regular Price	SALE
AGD 2	5 mm	White	-	58 mm	0.01 mm	Certified	PC21DI5805MM1C	77.18	47.95
AGD 2	10 mm	White	0-100	2-1/4"	0.01 mm	Certified	PC21DI210MM1C	77.18	47.95
AGD 2	25 mm	White	0-100	2-1/4"	0.01 mm	Certified	PC21DI225MM1C	122.12	74.95

30768

Starrett Single End Edge Finder

Model 827A

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



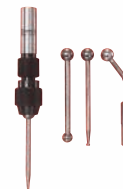
Order No.	Regular Price	SALE
MV7053062	45.50	38.95

5120

Starrett 5 Pc. Wiggler Set

5828HZ Model

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



Order No.	Regular Price	SALE
MV7053064	109.00	92.95

5164

Tempil® Non-Contact Infrared Measurement Device

Model IRT-16

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



Type	Temperature Range - Infrared	Order No.	Price	SALE
IRT-16 Infrared Thermometer	-76°F (-60°C) to 1157°F (625°C)	LH5224200	432.55	322.95

3996

PRO-CHECK® Electronic Z Indicator

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



Order No.	Regular Price	SALE
PC20EZAP2M	370.68	224.95

30243

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	88.39	54.95

4385

PRO-CHECK® Bore Gage Setting Sets

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



For Use With	Order No.	Regular Price	SALE
Base anvil: 2.750" x 0.80", Adjustable anvil: 2.375" x 0.375" (two each)	PC24BGSMI	691.12	417.95
Base anvil: 2.750" x 0.80", Adjustable anvil: 2.375" x 0.375" (two each)	PC24BGSM	753.92	455.95

4463

PRO-CHECK® 1/4" Precision Parallel Set

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



Order No.	Regular Price	SALE
NM55TPS9	161.30	98.95

4351

PRO-CHECK® Ultra Thin Steel Parallels

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



Order No.	Regular Price	SALE
NM55UTPS20	145.03	88.95

4849

PRO-CHECK® Tri-Block Sets

Premium 1-2-3 Block Set:

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

Economy Tri Blocks:

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



Economy Tri Block					
Overall Width	Overall Length	Overall Height	Order No.	Regular Price	SALE
1"	2"	3"	NM52E123	26.05	15.95
25 mm	50 mm	75 mm	NM52E25M	43.86	26.95
2"	4"	6"	NM52PR246	262.37	159.95

Tri Block Set					
Overall Width	Overall Length	Overall Height	Order No.	Regular Price	SALE
1"	2"	3"	NM52PR123	59.82	36.95

4371

PRO-CHECK® Tri-Blocks

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



Overall Width	Overall Length	Overall Height	Order No.	Regular Price	SALE
1"	2"	3"	NM52E123	26.05	15.95
25 mm	50 mm	75 mm	NM52E25M	43.86	26.95
2"	4"	6"	NM52PR246	262.37	159.95

4839

MEASURING TOOLS



Dial Gage Holders with Power On/Off Magnetic Base

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



Bottom Arm Length	Top Arm Length	Pull Force	Style	Order No.	Regular Price	SALE
4.33"	3.98"	176 lbf	Standard	FN60DG10533	195.11	151.95
4.33"	3.98"	176 lbf	Standard	FN60DG61003	182.37	141.95
12.8"	9.50"	290 lbf	Super Long	FN60MA61003	373.20	290.95
5.26"	5.24"	176 lbf	Long	FN60MG10533	230.21	179.95
5.26"	5.24"	176 lbf	Long	FN60MG61003	229.02	178.95
6.43"	4.45"	180 lbf	Extra Long	FN60MG71003	254.46	198.95

4265



Magnetic Base Indicator Holder

Model NF6160

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



Order No.	Regular Price	SALE
FN60NF6160	174.20	135.95

4281



Magnetic Bases

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



Description	Order No.	Regular Price	SALE
Standard	PC21300	33.66	20.95
Fine Adjustment	PC21340	38.81	23.95

4569



Magnetic Base with Stage Adaptor

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



Order No.	Regular Price	SALE
PC21UMB1	50.69	30.95

4689



Magnetic Bases

Standard/Fine Adjustment Stand

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

Universal Base Features:

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

Heavy Duty Magnetic Vee Base Only

- 110 Lb. Pull
- On/off switch



Features	Order No.	Regular Price	SALE
Standard	NL80300	25.33	14.95
Replacement Base only for ProCheck Mag Bases	NL80TMBA	20.09	12.95
Universal with 3-D Locking Mechanism	NL80TMBUM	91.94	53.95

4694



Magnetic Indicator Holders

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



Description	Order No.	Regular Price	SALE
Universal with Ball Socket & Fine Adjustment	NL80TMB1	34.49	20.95
Universal Base Only	NL80TMB2	31.53	18.95

4694

PRO-CHECK Universal Magnetic Base

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



Order No.	Regular Price	SALE
NL80TMBUM	91.94	53.95

4867

Starrett Magnetic Base

660 Global Series

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



Order No.	Regular Price	SALE
MV7068621	218.00	185.95

5079

Starrett Magnetic Bases

657 Series

Fixed Post Indicator Holder Features:

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

Flex-O-Post Indicator Holder

- All features above plus flex arm for difficult positioning

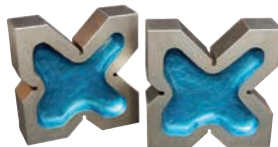


Model No	Order No.	Regular Price	SALE
657AA	MV7052743	325.00	276.95
657T	MV7052760	458.00	389.95

5083

PRO-CHECK Quadruple V-Blocks

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

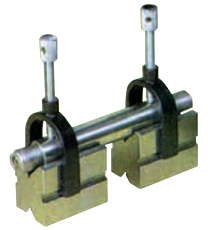


Overall Width	Overall Height	Overall Length	Capacity	Order No.	Regular Price	SALE
1 3/8"	3 3/4"	2 3/4"	3/4", 1 3/16", 1 9/16", 2"	NG54QVB1	87.92	53.95
1 3/16"	4"	4"	3/4", 1 3/16", 1 9/16", 2"	NG54QVB2	96.83	59.95
1 3/8"	4 3/4"	4 3/4"	1 3/16", 1 9/16", 2", 3 3/8"	NG54QVB3	134.76	82.95
2 3/8"	4 3/4"	4 3/4"	1 3/16", 1 9/16", 2", 2 3/8"	NG54QVB4	222.01	135.95

4771

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



Overall Width	Overall Height	Overall Length	Order No.	Regular Price	SALE
1 1/4"	1 1/4"	1 5/8"	NG52NVB117	45.01	27.95
1 5/8"	1 3/4"	2 3/4"	NG52NVB150	61.60	37.95

4872



BesTest® Dial Test

Indicators

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



Dial Reading	Graduation	Dial Face Diameter	Order No.	Regular Price	SALE
0-15-0	0.001"	1.0"	MV4545977	436.36	377.95
0-15-0	0.0005"	1.0"	MV4545978	450.72	389.95
0-15-0	0.0005"	1 1/2"	MV4545979	467.94	404.95
0-4-0	0.0001"	1.0"	MV4545980	489.47	422.95
0-4-0	0.00005"	1 1/2"	MV4545981	565.55	488.95
0-15-0	0.001"	1.0"	MV4551732	353.11	305.95
0-15-0	0.0005"	1.0"	MV4551733	361.72	312.95
0-15-0	0.0005"	1 1/2"	MV4551734	395.42	341.95
0-10-0	0.0005"	1.0"	MV4551735	430.62	372.95
0-10-0	0.0005"	1 1/2"	MV4551736	450.72	389.95
0-4-0	0.0001"	1.0"	MV4551737	486.39	420.95
0-4-0	0.00005"	1 1/2"	MV4551738	467.94	404.95

3354

MEASURING TOOLS

Mitutoyo Stem Mount Dial Test Indicators

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



Graduation	Dial Reading	Order No.	Regular Price	SALE
0.001"	0-20-0	MT80513-518T	249.75	211.95

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

4224

PRC CHECK Central Lock Universal Clamp & Indicator Set

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



Order No.	Regular Price	SALE
PC21UC35K	136.65	82.95

4495

MAG-MATE Inspection Mirror/Magnet

Combination Tools

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



Mirror Width	Mirror Length	Material	Overall Length	Extended Length	Pull	Order No.	Regular Price	SALE
2"	2"	Glass	6 1/4"	28"	2 lbs	NE70301G240	23.56	17.95
1 1/2"	1 1/2"	Glass	6"	23 1/2"	2 lbs	NE70306G240	32.07	24.95
3"	2"	Stainless	8 1/4"	38"	7 lbs	NE70314S925	67.95	51.95
1 1/4"	2"	Glass	6"	24 1/4"	2 lbs	NE70315G240	32.07	24.95
2 1/2"	17/8"	Acrylic	7 3/4"	32 1/2"	12 lbs	NE70321A931	70.30	52.95
-	-	Glass	14 1/4"	14 1/4"	20 lbs	NE70375G990	124.81	93.95

4044

MAG-MATE Stainless Steel Inspection Mirrors

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



Mirror Diameter	Overall Length	Extended Length	Shape	Order No.	Regular Price	SALE
3/8	11-1/2	11 1/2"	Round	NE70IMS103	42.06	31.95
1/2	12	12"	Round	NE70IMS105	42.34	31.95
1-1/4	35	35"	Round	NE70IMS115	43.67	32.95
2-1/4	36	36"	Round	NE70IMS123	43.48	32.95
2 x 1	36	36"	Oval	NE70IMS210	43.51	32.95
2 x 2	35-1/2	35 1/2"	Rectangular	NE70IMS223	43.79	32.95
3 x 2	37	37"	Rectangular	NE70IMS234	45.13	33.95

4050

Fowler INDI-X blue Electronic Indicators

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



Total Range	Order No.	Regular Price	SALE
0-1" / 0-25mm	NA5554520250	184.06	138.95
0-1" / 0-25MM	NA5554520255	171.09	128.95
0 - 1" / 0 - 25mm	NA5554520260	186.85	140.95

3654

PRC CHECK Magnetic Bases & Electronic Indicator Sets

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



Order No.	Regular Price	SALE
PC20MBFA15EK	134.52	81.95
PC20MBFL15EK	166.39	100.95

4598

Honeywell Uvex 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 Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Fog	Black	LF50S4200HS	13.39	7.95
Gray	Anti-Fog	Black	LF50S4201HS	15.44	8.95

2696

Honeywell Uvex Genesis®

- Dual 9 base wraparound lenses
- Features shock absorbing brow-guard and a ventilation channel to prevent fogging
- Unilens design, flexible nose pads, adjustable temple length, and lens angle adjustment



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Scratch Resistant	Black	LF50S3200	19.71	12.95

2688

BAUSCH + LOMB Pre-Moistened Lens Cleaning Tissues

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



Order No.	Regular Price	SALE
KA408574GM	22.89	15.95

22761

Pyramex Highlander® Safety Glasses

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



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black	KB54SBB5010DT	14.83	9.95

24526

Pyramex Safety Glasses

- Straight temples and integrated nose piece fits all facial sizes
 - Superior scratch resistant frame and lens
- ### Ztek
- Soft, non-slip rubber temple
 - Integrated nose piece
 - Scratch resistant



Alair



Ztek

Ztek				
Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Clear	KB54S2510ST	5.76	3.95
Gray	Gray	KB54S2520S	5.09	3.95
Blue Mirror	Blue	KB54S2575	6.47	4.95

Alair				
Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Clear	KB54S3210S	3.00	1.95
Gray	Gray	KB54S3220S	3.75	2.95
Light Blue	Blue	KB54S3260S	3.75	2.95
Mirror	Mirror	KB54S3280S	3.90	2.95

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

24529

MCR SR1®

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



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Fog & Scratch Resistant	Clear	KB85SR140AF	13.25	9.95
Gray	Anti-Fog & Scratch Resistant	White	KB85SR122AF	14.12	9.95
Gray	Polarized Scratch Resistant	Black	KB85SR112Z	44.69	31.95
Amber	Scratch Resistant	Black	KB85SR114	12.07	8.95
Blue Mirror	Scratch Resistant	Clear	KB85SR148B	15.53	10.95
Clear	Scratch Resistant	Black	KB85SR110	12.11	8.95
Clear	Scratch Resistant	White	KB85SR120	11.22	7.95
Clear	Scratch Resistant	Red	KB85SR130	11.22	7.95
Fire Mirror	Scratch Resistant	Red	KB85SR13R	15.53	10.95
Gray	Scratch Resistant	Black	KB85SR112	12.97	9.95

2544

PLANT & SAFETY

bolle SAFETY IRI-s

With Dioptric Corrective Lenses

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



Magnification	Frame Color	Lens Color	Order No.	Regular Price	SALE
1.5x	Black & Red	Clear	BO1540187	21.75	16.95
2.0x	Black & Red	Clear	BO1540188	21.90	16.95
2.5x	Black & Red	Clear	BO1540189	24.16	16.95
3.0x	Black & Red	Clear	BO1540190	24.16	16.95

2500

bolle SAFETY NITRO

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



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Translucent	BO1540095	27.46	20.95

2501

bolle SAFETY RUSH+ Goggles

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



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black & Red	BO1540252	34.44	23.95
Twilight	Black & Grey	BO1540258	34.44	23.95
Smoke	Black & Grey	BO1540259	31.18	23.95
Light Brown	Black & Grey	BO1540284	32.19	23.95

2504

Honeywell SAFETY High Performance® Headgear

- Crowns made of advanced, heat-resistant Noryl® material
- Headgear has tough, 3C ratchet suspension
- Meets ANSI Z87.1 standards and certified to CSA Z94.3



Order No.	Regular Price	SALE
LF50F400	47.09	33.95

30921

MCR SAFETY BK1®

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



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Uncoated	Clear	KB85BK010	2.96	1.95
Clear	Scratch Resistant	Clear	KB85BK110	3.18	2.50
Clear	Anti-Fog & Scratch Resistant	Clear	KB85BK110AF	4.31	2.95
Gray	Scratch Resistant	Gray	KB85BK112	3.18	2.50
Light Blue	Scratch Resistant	Light Blue	KB85BK113	4.05	2.95
Mirrored	Scratch Resistant	Clear	KB85BK119	4.05	2.95

2529



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

- Heat protection up to 200°C / 392°F
- Blended aramid liner provides 360° ANSI Level A4 cut protection
- High tensile strength goatskin provides outstanding abrasion resistance
- Cut-and-sewn construction for an optimal, comfortable fit
- Wing thumb design for durability and comfort
- Arc Flash testing placed these gloves at level 3, with an Arc Thermal Performance Value (ATPV) of 36 cal/cm²



Size	Cut Rating	Abrasion Rating	Arc Rated	Puncture Rating	ManufacturerNo	Order No.	Regular Price	SALE
Small	-	-	-	-	0260S	RT580260S	64.32	48.95
Medium	-	-	-	-	0260M	RT580260M	64.32	48.95
Large	-	-	-	-	0260L	RT580260L	64.32	48.95
X-Large	-	-	-	-	0260X	RT580260X	64.32	48.95
2X-Large	-	-	-	-	02602X	RT5802602X	64.32	48.95
3X-Large	ANSI A4	ANSI Level 4	ANSI CAT 3	ANSI Level 3	399GKGL5XXX	SG0253840	43.48	32.95

30826



Clutch Gear® High-Dexterity Goatskin Mechanic gloves

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



Size	Abrasion Rating	ManufacturerNo	Order No.	Regular Price	SALE
Small	ANSI Level 5	MXGCE/S	SG0259480	19.67	14.95
Medium	ANSI Level 5	MXGCE/M	SG021085	19.67	14.95
Large	ANSI Level 5	MXGCE/L	SG021090	19.67	14.95
X-Large	ANSI Level 5	MXGCE/XL	SG021095	19.67	14.95
2X-Large	ANSI Level 5	MXGCE/XXL	SG0259490	19.67	14.95

30827



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

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



Size	Cut Rating	Abrasion Rating	Puncture Rating	ManufacturerNo	Order No.	Regular Price	SALE
Medium	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNT-8	SG021795	18.47	13.95
Large	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNT-9	SG021800	18.47	13.95
X-Large	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNT10	SG021805	18.47	13.95
2X-Large	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNT11	SG0271490	18.47	13.95
3X-Large	ANSI A7	ANSI Level 5	ANSI Level 4	STACXPNT12	SG0271500	18.47	13.95

30832



70062 Thermal Leather Driver

- Economy fleece lined grain cowhide driver
- Keystone thumb
- Fabric bound hem



Size	Order No.	Regular Price	SALE
Small	LW0110515	14.41	9.95
Medium	LW0110520	14.41	9.95
Large	LW0110525	14.41	9.95
X-Large	LW0110530	15.40	10.95

30891

MCR 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	32.89	18.95
2X-Large	KB514600XXL	39.47	22.95

30708

MAXIFLEX® CUT™ Seamless Knit Nitrile Gloves

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



Size	Color	Cut Rating	Order No.	Regular Price	SALE
Large	Green	ANSI A3	PP1022195	17.45	11.95
Medium	Green	ANSI A3	PP1022200	17.45	11.95
Small	Green	ANSI A3	PP1022205	17.45	11.95
X-Large	Green	ANSI A3	PP1022210	17.45	11.95
2X-Large	Green	ANSI A3	PP1022220	17.45	11.95

30752

Honeywell Hard Hats Cap & Brim Style

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

LF50E1RW1
LF50E2RW1

LF50E2RW2

Color	Style	Order No.	Regular Price	SALE
White	Full Brim	LF50E1RW1	48.12	31.95
White	Cap Style	LF50E2RW1	40.03	26.95
Yellow	Cap Style	LF50E2RW2	40.47	28.95

2676

Chill-It's® 6700CT Bandana

- Ideal for all warm work, Chill-Its® Body Technologies help workers stay cool, fight fatigue, and increase productivity
- Evaporative cooling process keeps you cool all day, reduces the effects of heat stress, and fights fatigue
- Lightweight, comfortable cotton construction
- Super absorbent acrylic polymer activates easily and quickly when soaked in cold water 20 minutes
- Remains hydrated, providing cool comfort for 24 to 48 hours
- Reusable, just resoak



Order No.	Regular Price	SALE
LF656700N	4.14	2.75

23173

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

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



Cooling Triangle Hat



Bandana

Color	Bandana			Cooling Triangle Hat		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Solid Blue	LF656700CTB	8.32	5.95	LF656710CTB	16.46	11.95
Camo	LF656700CTC	8.32	5.95	LF656710CTC	16.46	11.95
Flames	LF656700CTF	8.32	5.95	LF656710CTF	16.46	11.95
Stars & Stripes	LF656700CTSS	8.32	5.95	LF656710CTSS	16.46	11.95

2597

Chill-Its® 6615 High-Performance Dew Rags

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



Color	Order No.	Regular Price	SALE
Lime	LF6512476	12.77	7.95
Stars & Stripes	LF6512477	12.77	7.95
Camo	LF6512478	12.77	7.95
Red Western	LF6512479	12.77	7.95
Navy Western	LF6512480	12.77	7.95
Blue	LF6512481	12.77	7.95
Flames	LF6512485	12.77	7.95

2605

3M 3M™ Skull Screws™ Earplugs P1310

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



Noise Reduction Rating	Style	Order No.	Regular Price	SALE
32 dB	Corded	KB3592952	1.88	1.20

Sold in Box Only

22585

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

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



Color	Style	Order No.	Regular Price	SALE
Yellow	Disposable / Foam	KB3591004	0.28	0.20

500 earplugs - price per each plug

23128

PLANT & SAFETY



Disposable Coded Earplugs

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



Noise Reduction Rating	Style	Order No.	Regular Price	SALE
33 dB	Coded	LF50MAX30	0.72	0.50

Compliance: ANSI S3.19-1974

25



Fusion® Reusable Earplugs

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



Noise Reduction Rating	Color	Size	Standard Pack	Order No.	Regular Price	SALE
27 dB	Blue	Small	100	LF50FUS30HP	3.20	2.50
27 dB	Green	Regular	100	LF50FUS30SHP	3.20	2.50

2706



GloWear® 8010HL Non-Reflective Vests

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



LF658010HLO

LF658010HLO

Color	Order No.	Regular Price	SALE
Lime	LF658010HLL	6.61	4.95
Orange	LF658010HLO	6.61	4.95

2601



Kut Guard® Double-Ply Kevlar® Sleeve

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



Size	Order No.	Regular Price	SALE
10"	PP1010390	5.79	3.95
12"	PP1010405	6.65	4.95
14"	PP1010425	7.37	4.95
18"	PP1010465	8.59	5.95
24"	PP1010505	13.24	9.95

29836



Premium Comfort Protective Face Masks

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



Size	Order No.	Regular Price	SALE
Small/Medium	AC201000	11.39	10.25
Large/X-Large	AC209000	11.39	10.25

PRICE PER EACH MASK

29378



Tigerhood Welding Helmets

Tigerhood Futura®:

- Innovative, streamlined design combined with high-performance materials
- Lightweight helmet and free floating headgear 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



View Width	View Height	Lens Shade	Window Style	Color	Order No.	Regular Price	SALE
4 1/2"	2"	10	Lift Front	Gray	LF5000906	139.29	102.95

2677

Honeywell Welding Helmets

HW100:

- Easy ratchet adjustment system for personalized fit
- Replaceable, padded sweatband
- Operating temperature range: +23°F to +131°F

HW200:

- Grind mode functionality that ensures the ADF will not darken when used during clean-up work
- Sensitivity adjustment that gives the wearer the option to adjust the filter's sensitivity
- Replaceable, padded sweatband
- Operating temperature range: +14°F to +131°F



View Width	View Height	Lens Shade	Window Style	Color	Order No.	Regular Price	SALE
3.8"	1.7"	10	Fixed Front	Black	LF50HW100	265.99	193.95
3.8"	1.9"	9-13	Fixed Front	Black	LF50HW200	357.89	266.95

2701

DAZOR Ecoflex II LED Spot Lights

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



OAL (in.)	Arm Style	Mount	Order No.	Regular Price	SALE
24	Floating	Clamp	KC50LCA27CMBK	622.47	590.50
34	Floating	Clamp	KC50LCA37CMBK	622.47	590.50
25	Flexible	Clamp	KC50LFA35CMBK	369.89	350.50
17	Flexible	Desk	KC50LFA35DBBK	372.65	353.50
17	Flexible	L-Bracket	KC50LFA35LBBK	390.60	370.50
17	Flexible	Magnetic	KC50LFA35MMBK	390.60	370.50

2548

Koehler BrightStar Intrinsically safe Spot/Flood Headlamp

Model No. 200501

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



Order No.	Regular Price	SALE
KN01200501	44.06	33.95

2749

DAZOR Handheld Lighted Magnifier

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



Magnification	Battery Size	Number of Batteries	Lamp Type	Order No.	Regular Price	SALE
2.5X	AAA	4	24 x 0.5W Hi Brightness LEDs	KC50J203HHM	113.18	107.95
2.5X	AAA	4	12 x 0.5W Hi Brightness LEDs	KC50JMINI	100.75	95.95

2549

KLEIN TOOLS Wireless Jobsite Speaker

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



Type	Wattage	Color	ManufacturerNo	Order No.	Regular Price	SALE
Wireless	5 W	Orange, Black, Gray	AEPJS1	KP6040000	82.70	61.95

28842

WEILER Coarse Sweeping

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



Overall Length	Trim Length	Bristle Material	Order No.	Regular Price	SALE
18"	3 1/4"	Synthetic Fill/ Oil Resistant	LD5325238	23.93	15.95
24"	3 1/4"	Synthetic Fill/ Oil Resistant	LD5325239	35.15	22.95
24"	3"	Tampico Fiber	LD5342135	61.21	39.95

Handles Sold Separately

3209

WEILER Perma Sweep™ Brooms

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



				Push Broom Head			Push Broom Head with Handle		
Overall Length	Style	Bristle Color	Trim Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
18"	Fine	Green	3"	LD5342163	29.52	18.95	LD53GR18H	36.74	23.95
18"	Heavy	Ma-roon	3"	LD5342167	29.52	18.95	LD53MA18H	46.63	30.95
18"	Medium	Yellow	3"	LD5342165	29.52	18.95	LD53YE18H	36.74	23.95
24"	Fine	Green	3"	LD5342164	40.96	26.95	LD53GR24H	43.05	27.95
24"	Heavy	Ma-roon	3"	LD5342168	40.96	26.95	LD53MA24H	36.74	23.95
24"	Medium	Yellow	3"	LD5342166	40.96	26.95	LD53YE24H	46.63	30.95

3215

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

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



Size	Material	Imprinting	Order No.	Regular Price	SALE
32 oz	Natural HDPE	White/Red	TO1010000	31.30	15.95

29260

SCRUBS Waterless Cleaning Towels & Wipes

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



BrandName	ProductName	Order No.	Regular Price	SALE
Scrubs	Citrus Fragrance Hand Cleaning Towels, 10 in x 12 in, 72 Wipes per Container	LM54422C072	30.53	25.05

3197

MATERIAL HANDLING

Low Profile Plastic Creepers

Features and Benefits:

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



Color	Order No.	Regular Price	SALE
Red	KN6592102	218.10	174.95
Yellow	KN6593102	218.10	174.95
Blue	KN6594102	218.10	174.95

5441

Ultimate Organizer

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



Order No.	Regular Price	SALE
RX5582223	80.23	75.95

5435

Economy Shelf Bins

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

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

Optional Shelf Bin DividersSold in package quantity of 24 only

Outside Length	Outside Width	Outside Height	Inside Length	Inside Width	Inside Height	Standard Pack	Use Dividers	Yellow			Red			Blue		
								Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
11 5/8"	2 3/4"	4"	10 1/4"	1 5/8"	4"	24	-	SD5030110Y	5.35	2.75	SD5030110R	5.35	2.75	SD5030110B	5.35	2.75
11 5/8"	4 1/8"	4"	10 1/4"	3"	4"	24	SD50-40120	SD5030120Y	6.07	2.95	SD5030120R	6.07	2.95	SD5030120B	6.07	2.95
11 5/8"	6 5/8"	4"	10 1/4"	5 1/2"	4"	12	SD50-40130	SD5030130Y	9.29	4.95	SD5030130R	9.29	4.95	SD5030130B	9.29	4.95
17 7/8"	6 5/8"	4"	16 1/2"	5 1/2"	4"	12	SD50-40130	SD5030138Y	11.56	5.95	SD5030138R	11.56	5.95	SD5030138B	11.56	5.95
17 7/8"	8 3/8"	4"	16 1/2"	7 1/8"	4"	12	SD50-40150	SD5030158Y	15.81	7.95	SD5030158R	15.81	7.95	SD5030158B	15.81	7.95

5245

Swivel Tractor Seat

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



Height	Order No.	Regular Price	SALE
18"-22"	RZ454000	235.84	165.95

5484

Cargo Tool Bags with Zip Closure

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



Length	Width	Height	Order No.	Regular Price	SALE
18"	9"	11"	LC707697	49.11	34.95
24"	9"	12"	LC707699	54.74	38.95

5487

Drum Dolly-Non-Marring Caster Wheels

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



For Use With	Drum Capacity	Order No.	Regular Price	SALE
55 Gallon Drums	1,500 lbs	PR05DLO55M	296.74	207.95

30841

PROTO Straight Wall Utility Bucket

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



ManufacturerNo	Order No.	Regular Price	SALE
J95336	KP4292280	133.57	94.25

5502

PROTO 20" General Purpose Tool Box

Double Latch

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



ManufacturerNo	Order No.	Regular Price	SALE
J9975-NA	KP4295010	96.04	69.95

24512

STANLEY Fatmax® Open Mouth Tool Bag

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



Height	Width	Length	Model No	Order No.	Regular Price	SALE
12"	10 3/8"	19"	518150M	KP438038	88.21	64.95

29405

KLEIN TOOLS Tradesman Pro™ Backpack

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



Number of Pockets	Width	Length	Height	Color	ManufacturerNo	Order No.	Regular Price	SALE
39	7"	14 1/2"	20"	Black, Reflective Gray, Green Accents	55597	KP6012785	269.43	198.95
39	7"	14 1/2"	20"	Camo	55421BP14CAMO	KP6012910	246.10	181.95

28930

KLEIN TOOLS Canvas Tool Buckets

5109SLR

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

5104S

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

5104FR

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

5104CLRFR

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

5104CLR22

- Load rated 150-pounds (68 kg)
- Top of bucket zips closed
- 14-inch (356 mm) diameter accommodates standard 5-gallon (18.9 L) bucket
- Body constructed of heavy-duty No. 1 canvas
- Web strap extends down the side of the bucket
- Leather reinforced bottom extends 3-Inch (76 mm) up the side
- Durable steel rim


KP6012865
KP6012855

KP6012850
KP6012845


KP6012840

Width	Length	Height	Color	ManufacturerNo	Order No.	Regular Price	SALE
12"	15"	15"	Natural	5109SLR	KP6012865	126.53	93.95
12"	17"	17"	Natural	5104S	KP6012855	192.07	141.95
12"	17"	17"	Black	5104FR	KP6012850	223.36	164.95
12"	17"	17"	Black	5104CLRFR	KP6012845	312.41	230.95
14"	22"	22"	Off-White	5104CLR22	KP6012840	287.33	212.95

28934

KANTWIST™ T-Handle Clamps

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



Maximum Opening Capacity	Open Throat Depth	Closed Throat Depth	Load Capacity	Order No.	Regular Price	SALE
1"	3/8"	1/2"	350 lbs	SE64401	31.11	23.95
2"	1 1/8"	1 1/4"	800 lbs	SE64405	43.93	32.95
2 1/2"	2"	1 13/16"	700 lbs	SE64407	44.90	33.95
3"	1 1/4"	1 3/4"	1500 lbs	SE64410	70.10	52.95
4 1/2"	2 1/4"	3 13/16"	1700 lbs	SE64415	74.88	56.95
6"	2 1/8"	3 3/8"	2000 lbs	SE64420	64.12	69.95
6"	4 1/2"	5 1/2"	2000 lbs	SE64421	109.43	82.95
9"	3 3/8"	5 1/4"	2500 lbs	SE64430	191.95	143.95
10"	6"	7"	3500 lbs	SE64435	295.94	221.95
12"	12"	7"	6000 lbs	SE64440	317.89	238.95

23592

RAPIDHOLD™ Heavy Duty Super Precision Live Centers

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



Mount	Head Diameter	Maximum RPM	Weight	Order No.	Regular Price	SALE
1 MT	1.338"	6,000	0.64 lbs	HL2061000	232.83	130.95
2 MT	1.417"	5,500	0.88 lbs	HL2061001	335.11	188.95
3 MT	1.850"	4,500	1.94 lbs	HL2061002	417.09	234.95
4 MT	2.283"	4,000	3.23 lbs	HL2061003	499.03	280.95
5 MT	2.677"	3,000	6.86 lbs	HL2061004	629.69	354.95
6 MT	3.543"	2,000	17.2 lbs	HL2061005	1326.43	746.95

24590

RAPIDHOLD™ 5C Collet Sets

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



Diameter Range	Quantity	Number of Stands Included	Opening Shape	Order No.	Regular Price	SALE
1/16" - 1 1/8"	18	1	Round	GP872308218	390.53	234.95
1/16" - 1 1/8"	35	1	Round	GP872308235	762.34	457.95
1/16" - 1 1/8"	69	1	Round	GP872308269	1461.77	877.95

24553

PALMGREN™ 4" Drill Press Vise

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



Order No.	Regular Price	SALE
JB50DP35	185.17	147.95

24368



Forged Adjustable Clamps

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



Bolt Size	Clamp- ing Range	Clamp Width	Clamp Thick- ness	Heel to Center	Maxi- mum Torque	Clamp- ing Force	Order No.	Regular Price	SALE
1/2"	0-2"	1 3/4"	1 1/2"	2 1/2"	90 ft/ lbs	6,800 lbs	SG6619101	69.37	65.50
5/8"	0-2 3/8"	2"	1 5/8"	3"	180 ft/ lbs	10,600 lbs	SG6619102	93.93	88.50
3/4"	0-2 3/4"	2 1/2"	1 3/4"	3 3/4"	300 ft/ lbs	16,000 lbs	SG6619103	142.58	134.50
7/8"	0-3 1/2"	3"	2 3/8"	4 1/4"	500 ft/ lbs	21,800 lbs	SG6619104	192.26	182.50

1256



52 Pc. Machinist Clamping Set

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

Studs

Set Contains:

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



Order No.	Regular Price	SALE
SG6012625CKUS	217.76	162.95

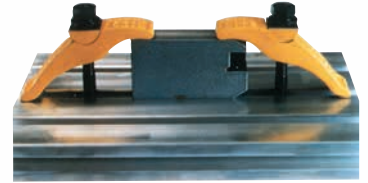
F.O.B. Warren, MI • Purolator Dimensional Weight • Shipping Rates
May Apply

25209



Rite Hite Self Positioning Hold Down Clamps

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



Thread Size	Length	Width	Thick- ness	Maxi- mum Height	Clamp Force	Hold- ing Capac- ity	Weight	Order No.	Reg- ular Price	SALE
1"	11 1/8"	2 7/8"	3 5/16"	5"	-	65,000 lbs	12.00 lbs	SG751000L	165.20	132.95
1"	9"	2 7/8"	3 5/16"	3"	-	8,000 lbs	10.00 lbs	SG751001S	159.87	127.95
3/8"	3 1/2"	1 1/8"	1 3/32"	1 1/4"	-	10,000 lbs	0.50 lbs	SG75375L	39.23	31.95
3/8"	3"	1 1/8"	1 3/32"	1"	-	14,000 lbs	0.50 lbs	SG75376S	36.64	29.95
1/2"	5 3/4"	1 7/16"	1 13/32"	2 1/2"	-	12,800 lbs	1.40 lbs	SG75500L	52.34	41.95
1/2"	4 1/4"	1 3/8"	1 13/32"	1 3/4"	-	16,800 lbs	1.00 lbs	SG75501S	49.75	39.95
5/8"	6 3/4"	1 7/8"	1 1/2"	3 1/2"	-	18,000 lbs	2.50 lbs	SG75625L	65.46	52.95
5/8"	5 1/2"	1 7/8"	1 1/2"	2 3/4"	-	24,000 lbs	2.00 lbs	SG75626S	62.85	50.95
3/4"	9"	2 1/8"	2 3/8"	5"	-	24,000 lbs	4.75 lbs	SG75750L	91.70	73.95
3/4"	7"	2.00"	2 3/8"	3 1/2"	-	35,000 lbs	4.00 lbs	SG75751S	89.09	71.95

22786



Tél. : 819.820.7477
1.877.565.1788
Télec. : 819.820.8183
info@bercor.ca
www.bercor.ca

Air Supreme® 26 Pc. Right Angle Grinder Surface Prep Kit

Kit Includes:

- (1) 20,000 RPM R/A Die grinder
- (5) 2" Conditioning discs
- (5) 3" Conditioning discs
- (1) 2" Roll on holders
- (1) 3" Roll on holders
- (1) 1/8" Collets
- (1) 1/4" Collets
- (1) 10 Pc. stone assortment
- (1) Blow molded case



Order No.	Regular Price	SALE
PJ752010	156.81	124.95

1961

Starrett® Measure Stix™ Steel Measuring Tapes

Adhesive Backing

- Mount on work benches, saw tables, drafting tables, etc.



Blade Width	Blade Length	Order No.	Regular Price	SALE
1/2"	4'	MV8063168	14.34	9.10
1/2"	4'	MV8063171	14.34	9.10
1/2"	12'	MV8063170	19.82	12.50
3/4"	6'	MV8063169	17.27	10.95

5086

Fowler® Long Range Dial Calipers

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



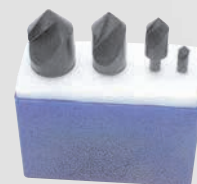
Measuring Range	Dial Face Color	Order No.	Regular Price	SALE
0-18"	Black	NA5552008018	448.40	336.95
0-24"	Black	NA5552008024	543.37	407.95

3666

Uniflute® 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: 3/16, 1/4, 3/8, 1/2, 5/8, 3/4 and 1" diameter tools
- M.A.Ford List #64



Quantity - 4			
Point Angle (SIG)	Order No.	Regular Price	SALE
60 Degrees	BC7064001	139.21	110.95
82 Degrees	BC7064006	139.21	110.95
90 Degrees	BC7064011	139.21	110.95
100 Degrees	BC7064016	139.21	110.95
120 Degrees	BC7064021	139.21	110.95

Quantity - 7			
Point Angle (SIG)	Order No.	Regular Price	SALE
60 Degrees	BC7064003	197.77	157.95
82 Degrees	BC7064008	197.77	157.95
90 Degrees	BC7064013	197.77	157.95
100 Degrees	BC7064018	197.77	157.95
120 Degrees	BC7064023	197.77	157.95

9955

PRICES EFFECTIVE JULY 1ST THROUGH SEPTEMBER 30, 2023

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