FEATURED



STANDARD CARBIDE GROOVING TOOLS

See more on page 7



EURO-CAL IV ELECTRONIC CALIPER

See more on page 29



150 PIECE MACHANIC'S TOOL SET

See more on page 37

Pricing available April 1, 2025 - June 30, 2025

iTi INTERNAL TOOL
Specializing in Carbide Mill & Lathe Cutting Tools

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)	Cut-ting Length	Cutting Depth Maxi-mum (CDX)	Order No.	Reg-ular Price	SALE
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	1/4″	GE97221100	66.47	53.18
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	3/8″	GE97221105	66.47	53.18
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	1/2″	GE97221110	66.47	53.18
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	5/8″	GE97221115	66.47	53.18
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	1/4″	GE97221120	66.47	53.18
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	3/8″	GE97221125	66.47	53.18
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	1/2″	GE97221130	66.47	53.18
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	5/8″	GE97221135	66.47	53.18
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	1/4″	GE97221140	66.47	53.18
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	3/8″	GE97221145	66.47	53.18
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	1/2″	GE97221150	66.47	53.18
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	5/8″	GE97221155	66.47	53.18
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	1/4″	GE97221160	66.47	53.18
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	3/8″	GE97221165	66.47	53.18
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	1/2″	GE97221170	66.47	53.18
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	5/8″	GE97221175	66.47	53.18
1/4″	2-1/2″	0.093″ / 0.095″	1/4″	0.050″	1/4″	GE97221180	66.47	53.18
1/4″	2-1/2″	0.093″ / 0.095″	1/4″	0.050″	3/8″	GE97221185	66.47	53.18
1/4″	2-1/2″	0.093″ / 0.095″	1/4″	0.050″	1/2″	GE97221190	66.47	53.18
1/4″	2-1/2″	0.093″ / 0.095″	1/4″	0.050″	5/8″	GE97221195	66.47	53.18
1/4″	2-1/2″	0.125″ / 0.127″	1/4″	0.050″	1/4″	GE97221200	66.47	53.18
1/4″	2-1/2″	0.125″ / 0.127″	1/4″	0.050″	3/8″	GE97221205	66.47	53.18
1/4″	2-1/2″	0.125″ / 0.127″	1/4″	0.050″	1/2″	GE97221210	66.47	53.18
1/4″	2-1/2″	0.125″ / 0.127″	1/4″	0.050″	5/8″	GE97221215	66.47	53.18
5/16″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	1/4″	GE97221220	82.95	66.36
5/16″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	3/8″	GE97221225	82.95	66.36
5/16″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	1/2″	GE97221230	82.95	66.36
5/16″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	5/8″	GE97221235	82.95	66.36
5/16″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	1/4″	GE97221240	82.95	66.36
5/16″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	3/8″	GE97221245	82.95	66.36
5/16″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	1/2″	GE97221250	82.95	66.36
5/16″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	5/8″	GE97221255	82.95	66.36
5/16″	2-1/2″	0.062″ / 0.064″	0.312″	0.100″	1/2″	GE97221260	82.95	66.36
5/16″	2-1/2″	0.062″ / 0.064″	0.312″	0.100″	3/4″	GE97221265	82.95	66.36
5/16″	2-1/2″	0.062″ / 0.064″	0.312″	0.100″	1″	GE97221270	82.95	66.36
5/16″	2-1/2″	0.093″ / 0.095″	0.312″	0.100″	1/2″	GE97221275	82.95	66.36
5/16″	2-1/2″	0.093″ / 0.095″	0.312″	0.100″	3/4″	GE97221280	82.95	66.36
5/16″	2-1/2″	0.093″ / 0.095″	0.312″	0.100″	1″	GE97221285	82.95	66.36
5/16″	2-1/2″	0.125″ / 0.127″	0.312″	0.100″	1/2″	GE97221290	82.95	66.36
5/16″	2-1/2″	0.125″ / 0.127″	0.312″	0.100″	3/4″	GE97221295	82.95	66.36
5/16″	2-1/2″	0.125″ / 0.127″	0.312″	0.100″	1″	GE97221300	82.95	66.36
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1/4″	GE97221305	109.23	87.38
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	3/8″	GE97221310	109.23	87.38
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1/2″	GE97221315	109.23	87.38
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	3/4″	GE97221320	109.23	87.38
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1″	GE97221325	109.23	87.38
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1-1/4″	GE97221330	109.23	87.38
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1/4″	GE97221335	109.23	87.38
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	3/8″	GE97221340	109.23	87.38
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1/2″	GE97221345	109.23	87.38
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	3/4″	GE97221350	109.23	87.38
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1″	GE97221355	109.23	87.38
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1-1/4″	GE97221360	109.23	87.38
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1/4″	GE97221365	109.23	87.38
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	3/8″	GE97221370	109.23	87.38
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1/2″	GE97221375	109.23	87.38
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	3/4″	GE97221380	109.23	87.38
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1″	GE97221385	109.23	87.38
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1-1/4″	GE97221390	109.23	87.38
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1/4″	GE97221395	109.23	87.38
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	3/8″	GE97221400	109.23	87.38
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1/2″	GE97221405	109.23	87.38
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	3/4″	GE97221410	109.23	87.38
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1″	GE97221415	109.23	87.38
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1-1/4″	GE97221420	109.23	87.38
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1/4″	GE97221425	109.23	87.38
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	3/8″	GE97221430	109.23	87.38
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1/2″	GE97221435	109.23	87.38
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	3/4″	GE97221440	109.23	87.38
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1″	GE97221445	109.23	87.38
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1-1/4″	GE97221450	109.23	87.38
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1/4″	GE97221455	109.23	87.38
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	3/8″	GE97221460	109.23	87.38
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1/2″	GE97221465	109.23	87.38
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	3/4″	GE97221470	109.23	87.38
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1″	GE97221475	109.23	87.38
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1-1/4″	GE97221480	109.23	87.38
3/8″	2-1/2″	0.093″ / 0.095″	3/8″	0.100″	1/2″	GE97221485	109.23	87.38
3/8″	2-1/2″	0.093″ / 0.095″	3/8″	0.100″	3/4″	GE97221490	109.23	87.38
3/8″	2-1/2″	0.093″ / 0.095″	3/8″	0.100″	1″	GE97221495	109.23	87.38
3/8″	2-1/2″	0.125″ / 0.127″	3/8″	0.100″	1/2″	GE97221500	109.23	87.38
3/8″	2-1/2″	0.125″ / 0.127″	3/8″	0.100″	3/4″	GE97221505	109.23	87.38
3/8″	2-1/2″	0.125″ / 0.127″	3/8″	0.100″	1″	GE97221510	109.23	87.38
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	1/2″	GE97221515	146.59	117.27
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	3/4″	GE97221520	146.59	117.27
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	1″	GE97221525	146.59	117.27
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	1-1/4″	GE97221530	146.59	117.27
1/2″	3″	0.062″ / 0.064″	1/2″	0.150″	1-1/2″	GE97221535	146.59	117.27
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1/2″	GE97221540	146.59	117.27
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	3/4″	GE97221545	146.59	117.27
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1″	GE97221550	146.59	117.27
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1-1/4″	GE97221555	146.59	117.27
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1-1/2″	GE97221560	146.59	117.27
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1/2″	GE97221565	146.59	117.27
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	3/4″	GE97221570	146.59	117.27
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1″	GE97221575	146.59	117.27
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1-1/4″	GE97221580	146.59	117.27
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1-1/2″	GE97221585	146.59	117.27
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1/2″	GE97221590	146.59	117.27
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	3/4″	GE97221595	146.59	117.27
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1″	GE97221600	146.59	117.27
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1-1/4″	GE97221605	146.59	117.27
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1-1/2″	GE97221610	146.59	117.27
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1/2″	GE97221615	146.59	117.27
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	3/4″	GE97221620	146.59	117.27
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1″	GE97221625	146.59	117.27
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1-1/4″	GE97221630	146.59	117.27
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1-1/2″	GE97221635	146.59	117.27
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	1/2″	GE97221640	146.59	117.27
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	3/4″	GE97221645	146.59	117.27
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	1″	GE97221650	146.59	117.27
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	1-1/4″	GE97221655	146.59	117.27
1/2″	3″	0.250″/ 0.252″	1/2″	0.150″	1-1/2″	GE97221660	146.59	117.27

30128

KEO 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**	14.17	**11.31**
#1	1/8"	1-1/4"	**AV4110100**	9.88	**7.89**
#2	3/16"	1-7/8"	**AV4110200**	10.32	**8.24**
#3	1/4"	2"	**AV4110300**	10.75	**8.58**
#4	5/16"	2-1/8"	**AV4110400**	11.09	**8.86**
#4.5	3/8"	2-1/2"	**AV4114500**	15.30	**12.22**
#5	7/16"	2-3/4"	**AV4110500**	17.61	**14.06**
#6	1/2"	3"	**AV4110600**	26.46	**21.13**
#7	5/8"	3-1/4"	**AV4110700**	40.11	**32.03**
#8	3/4"	3-1/2"	**AV4110800**	55.12	**44.02**
#9	7/8"	3-5/8"	**AV4110900**	100.00	**79.85**
#10	1"	3-3/4"	**AV4111000**	131.28	**104.83**

22469

PROCUT Combined Drills & Countersinks



High Speed Steel

- 60° Included angle

Size	Drill Bit Size / Cutting Diameter (DC)	Overall Length (OAL)	Order No.	Regular Price	SALE
#1	1/8"	1-1/4"	**AV501**	4.17	**1.81**
#2	3/16"	1-7/8"	**AV502**	4.66	**2.02**
#3	1/4"	2"	**AV503**	4.79	**2.07**
#4	5/16"	2-1/8"	**AV504**	4.31	**1.86**
#5	7/16"	2-3/4"	**AV505**	10.37	**4.50**
#6	1/2"	3"	**AV506**	13.72	**5.94**
#7	5/8"	3-1/4"	**AV507**	19.00	**8.23**
#8	3/4"	3-1/2"	**AV508**	24.74	**10.71**

24466

HeliCoil Metric Thread Repair Kits

HeliCoil Inserts quickly and permanently restore stripped, worn or damaged threads to their original size and condition. Damaged threads can be restored to better than new condition. Increase your repair capa-bilities and restore parts that otherwise would have to be scrapped.



Insert Thread Size	Order No.	Regular Price	SALE
M3	**EX7054033**	146.06	**116.85**
M4	**EX7054034**	92.12	**73.70**
M5	**EX7054035**	93.11	**74.49**
M6	**EX7054036**	87.92	**70.34**
M7	**EX7054037**	89.31	**71.45**
M8	**EX7054038**	89.31	**71.45**
M10	**EX70540310**	107.59	**86.07**
M12	**EX70540312**	121.27	**97.02**
M14	**EX70540314**	212.91	**170.33**
M16	**EX70540316**	237.65	**190.12**
M18	**EX70540318**	281.97	**225.58**
M20	**EX70540320**	311.67	**249.34**
M8	**EX7054048**	165.02	**132.02**
M10	**EX70540410**	165.02	**132.02**
M10	**EX70540510**	252.39	**201.91**
M12	**EX70540512**	165.02	**132.02**
M12	**EX70540612**	165.02	**132.02**
M14	**EX70540614**	252.39	**201.91**
M16	**EX70540616**	257.25	**205.80**
M18	**EX70540618**	317.90	**254.32**

9764

ULTRA-DEX Negative 80° Diamond -5° Lead Boring Bars No Coolant



Steel Bars • 4:1 Ratio

- Right hand shown

Con-nection Diameter Machine Side (DCONMS)	Func-tional Length (LF)	Reduced Body Diameter Length (LDRED)	Master Insert Identi-fication (MIID)	Right Hand			Left Hand		
				Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
3/4"	8"	-	CNMG 322	**FG551439**	247.15	**197.72**	**FG551438**	247.15	**197.72**
1"	10"	-	CNMG 322	**FG551468**	322.44	**257.95**	**FG551466**	322.44	**257.95**
1"	10"	-	CNMG 432	**FG551469**	322.44	**257.95**	**FG551467**	322.44	**257.95**
1-1/4"	10"	-	CNMG 432	**FG551484**	372.76	**298.21**	**FG551483**	372.76	**298.21**
1-1/2"	14"	-	CNMG 432	**FG551505**	542.22	**433.78**	**FG551504**	542.22	**433.78**
2"	16"	-	CNMG 432	**FG551518**	611.28	**489.02**	**FG551517**	611.28	**489.02**

9564

HeliCoil Inch Thread Repair Kits



- Quickly and permanently restore stripped, worn or damaged threads to their original size and condition
- Damaged threads can be restored to better than new condition
- Increase your repair capabilities and restore parts that otherwise would have to be scrapped

Insert Thread Size	Order No.	Regular Price	SALE
#4	**EX70540104**	91.60	**73.28**
#5	**EX70540105**	146.06	**116.85**
#6	**EX70540106**	91.57	**73.26**
#8	**EX7054012**	92.12	**73.70**
#10	**EX7054013**	86.10	**68.88**
#12	**EX7054011**	87.04	**69.63**
1/4"	**EX7054014**	88.83	**71.06**
5/16"	**EX7054015**	92.50	**74.00**
3/8"	**EX7054016**	94.32	**75.46**
7/16"	**EX7054017**	99.82	**79.86**
1/2"	**EX7054018**	141.99	**113.59**
9/16"	**EX7054019**	198.07	**158.46**
5/8"	**EX70540110**	203.03	**162.42**
3/4"	**EX70540112**	237.65	**190.12**
7/8"	**EX70552114**	311.67	**279.99**
1"	**EX70552116**	644.39	**515.51**
1 1/8"	**EX70552118**	810.96	**648.77**
1 1/4"	**EX70552120**	568.81	**455.05**
1 3/8"	**EX70552122**	618.35	**494.68**
1 1/2"	**EX70552124**	667.80	**599.92**
#6	**EX70540206**	146.06	**116.85**
#8	**EX7054022**	301.74	**241.39**
#10	**EX7054023**	96.15	**76.92**
1/4"	**EX7054024**	98.90	**79.12**
5/16"	**EX7054025**	126.77	**101.42**
3/8"	**EX7054026**	108.07	**86.46**
7/16"	**EX7054027**	113.60	**90.88**
1/2"	**EX7054028**	155.68	**124.54**
9/16"	**EX7054029**	263.07	**210.46**
5/8"	**EX70540210**	222.85	**178.28**
3/4"	**EX70540212**	257.43	**205.94**
7/8"	**EX70552814**	455.14	**364.11**
1"	**EX705528161**	837.73	**670.18**
1"	**EX70552816**	593.61	**533.27**
1 1/8"	**EX70552818**	741.99	**593.59**
1 1/4"	**EX70552820**	766.70	**613.36**
1 3/8"	**EX70552822**	840.99	**672.79**
1 1/2"	**EX70552824**	890.39	**712.31**

9761

SHAVIV Leading Deburring Solutions Replacement Blades - Style E



Noga Equivalent	Blade Type	Application	Order No.	Regular Price	SALE
S10	E100	The basic blade used for steel & Aluminum	**FN50E100**	4.12	**2.45**
S10TiN	E100P	Same as E100 blade with TiN coating for extended life when deburring exotic & abrasive materials	**FN50E100P**	6.23	**3.71**
None	E100C	Solid carbide blade similar to E100, for extra hard applications	**FN50E100C**	13.75	**9.45**
S101	E110	Heavy duty blade for steel & Aluminum with special design for versatility	**FN50E110**	4.19	**2.49**
None	E111	Can deburr a minimum hole Diameter of 1.5 mm	**FN50E111**	4.19	**2.49**
S20	E200	-	**FN50E200**	4.12	**2.45**
None	E200P	Same as E200 blade with TiN coating for extended life when deburring exotic & abrasive materials	**FN50E200P**	6.23	**3.71**
None	E200C	Solid carbide blade similar to E200, for extra hard applications	**FN50E200C**	13.75	**9.45**
S30	E300	Removes external & internal burrs simultaneously from holes drilled into tubing and sheet metal	**FN50E300**	5.26	**3.14**
None	E320	Same as E300 exceept for Brass & Cast Iron	**FN50E320**	5.26	**3.14**
S35	E350	Expecially handy for straigh edges, keyways, etc.	**FN50E350**	4.12	**2.45**
S60	E600	Heavy duty HSS internal blade. Facilitates deburring in the most inaccessible locations	**FN50E600**	6.06	**3.61**
None	E700	Ideal for removing burrs from Plastic workpieces	**FN50E700**	5.36	**3.19**

10597

NOGA Reversible Countersinks



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

Range	Included	Type	Order No.	Regular Price	SALE
3-5.5 mm	Steel Handle / R1 Blade	Mini-Reversible Set	**FN55RC1000**	45.47	**33.32**
5-10 mm	Steel Handle / R2 Blade	Medium-Reversible Set	**FN55RC2000**	45.47	**33.32**
10-22 mm	Steel Handle / R3 Blade	Large-Reversible Set	**FN55RC2200**	54.12	**39.66**
3.5 - 22 mm	Set of all 3	Mini, Medium, Large	**FN55RC3300**	145.07	**106.32**

24089

IRWIN HANSON 10 Pc. Screw Extractor & Cobalt Drill Set



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

Number of Pieces	Set Includes	Case Type	Order No.	Regular Price	SALE
10	Right Hand Cobalt Drills	Blister Pack	**EW5111117**	73.82	**54.11**
10	Left Hand Cobalt Drills	Blister Pack	**EW5111119**	104.50	**76.59**

6715

NOGA 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	55.20	**40.46**

10093

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**	77.66	**62.13**	**GE97861095C**	80.44	**64.35**
3/16"	3/16"	2-1/2"	3	60 Degrees	**GE97861100**	87.51	**70.01**	**GE97861100C**	91.27	**73.02**
1/4"	1/4"	2-1/2"	4	60 Degrees	**GE97861105**	93.17	**74.54**	**GE97861105C**	100.67	**80.54**
5/16"	0.312"	2-1/2"	4	60 Degrees	**GE97861107**	97.44	**77.95**	**GE97861107C**	111.45	**89.16**
3/8"	3/8"	2-1/2"	5	60 Degrees	**GE97861110**	100.27	**80.22**	**GE97861110C**	108.63	**86.90**
1/2"	1/2"	3"	6	60 Degrees	**GE97861115**	123.19	**98.55**	**GE97861115C**	138.12	**110.50**
5/8"	5/8"	3-1/2"	6	60 Degrees	**GE97861117**	160.52	**128.42**	**GE97861117C**	182.03	**145.62**
3/4"	3/4"	4"	6	60 Degrees	**GE97861118**	215.70	**172.56**	**GE97861118C**	234.44	**187.55**

30137

PROCUT 39 Pc. Tap & Die Sets

#4 thru 1/2"1" Adjustable Round Dies



- Self-hinged durable plastic case with removable tray
- Includes one each plug tap and 1" OD die for the following 17 thread sizes plus tools indicated
- **Thread sizes:** 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 1/8-27 NPT(pipe die is solid round)
- **Threading tools:** T-handle tap wrench, straight tap wrenches, die stock

Cutting Edge Material	Order No.	Regular Price	SALE
Carbon Steel	**ET51C614**	210.46	**91.13**
HSS	**ET51HS614**	447.69	**193.84**

10278

PROCUT 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**	2.39	**1.14**
1/32"	0.0313"	1/2"	1-3/8"	**AC40002B**	1.54	**0.73**
3/64"	0.0469"	3/4"	1-3/4"	**AC40003B**	1.54	**0.73**
1/16"	0.0625"	7/8"	1-7/8"	**AC40004B**	1.54	**0.73**
5/64"	0.0781"	1"	2"	**AC40005B**	1.68	**0.79**
3/32"	0.0938"	1-1/4"	2-1/4"	**AC40006B**	1.68	**0.79**
7/64"	0.1094"	1-1/2"	2-5/8"	**AC40007B**	1.68	**0.79**
1/8"	0.125"	1-5/8"	2-3/4"	**AC40008B**	1.68	**0.79**
9/64"	0.1406"	1-3/4"	2-7/8"	**AC40009B**	2.90	**1.48**
5/32"	0.1563"	2"	3-1/8"	**AC40010B**	1.78	**0.76**
11/64"	0.1719"	2-1/8"	3-1/4"	**AC40011B**	1.90	**0.83**
3/16"	0.1875"	2-5/16"	3-1/2"	**AC40012B**	2.14	**0.93**
13/64"	0.2031"	2-7/16"	3-5/8"	**AC40013B**	2.39	**1.04**
7/32"	0.2188"	2-1/2"	3-3/4"	**AC40014B**	2.74	**1.19**
15/64"	0.2344"	2-5/8"	3-7/8"	**AC40015B**	2.74	**1.19**
1/4" | E |	0.25"	2-3/4"	4"	**AC40016B**	3.11	**1.35**
17/64"	0.2656"	2-7/8"	4-1/8"	**AC40017B**	3.74	**1.61**
9/32"	0.2813"	2-15/16"	4-1/4"	**AC40018B**	3.93	**1.71**
19/64"	0.2969"	3-1/16"	4-3/8"	**AC40019B**	4.54	**1.97**
5/16"	0.3125"	3-3/16"	4-1/2"	**AC40020B**	5.01	**2.17**
21/64"	0.3281"	3-5/16"	4-5/8"	**AC40021B**	5.38	**2.33**
11/32"	0.3438"	3-7/16"	4-3/4"	**AC40022B**	6.20	**2.69**
23/64"	0.3594"	3-1/2"	4-7/8"	**AC40023B**	6.82	**2.94**
3/8"	0.375"	3-5/8"	5"	**AC40024B**	7.04	**3.06**
25/64"	0.3906"	3-3/4"	5-1/8"	**AC40025B**	8.11	**3.52**
13/32"	0.4063"	3-7/8"	5-1/4"	**AC40026B**	8.23	**3.56**
27/64"	0.4219"	3-15/16"	5-3/8"	**AC40027B**	9.06	**3.91**
7/16"	0.4375"	4-1/16"	5-1/2"	**AC40028B**	9.44	**4.09**
29/64"	0.4531"	4-3/16"	5-5/8"	**AC40029B**	10.61	**4.59**
15/32"	0.4688"	4-5/16"	5-3/4"	**AC40030B**	11.23	**4.87**
31/64"	0.4844"	4-3/8"	5-7/8"	**AC40031B**	13.72	**5.94**
1/2"	0.5"	4-1/2"	6"	**AC40032B**	14.34	**6.22**
17/32"	0.5313"	4-13/16"	6-5/8"	**AC40034B**	23.66	**12.12**
9/16"	0.5625"	4-13/16"	6-5/8"	**AC40036B**	26.07	**13.34**
19/32"	0.5938"	5-3/16"	7-1/8"	**AC40038B**	26.77	**11.60**
5/8"	0.625"	5-3/16"	7-1/8"	**AC40040B**	30.58	**13.25**
21/32"	0.6563"	5-3/16"	7-1/8"	**AC40042B**	30.94	**13.40**
11/16"	0.6875"	5-5/8"	7-5/8"	**AC40044B**	35.36	**15.31**

24478

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



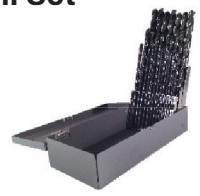
- 60° Plain type
- High speed steel

Order No.	Regular Price	SALE
AV4110000	89.53	**71.49**

22312

PROCUT 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	340.66	**147.50**

24453

M.A. FORD 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**	154.17	**112.99**
82 Degrees	**BC7064006**	154.17	**112.99**
90 Degrees	**BC7064011**	154.17	**112.99**
100 Degrees	**BC7064016**	154.17	**112.99**
120 Degrees	**BC7064021**	154.17	**112.99**

Quantity - 7			
Point Angle (SIG)	**Order No.**	**Regular Price**	**SALE**
60 Degrees	**BC7064003**	219.02	**160.51**
82 Degrees	**BC7064008**	219.02	**160.51**
90 Degrees	**BC7064013**	219.02	**160.51**
100 Degrees	**BC7064018**	219.02	**160.51**
120 Degrees	**BC7064023**	219.02	**160.51**

9955

PROCUT 6-Flute Chatterless Countersink Sets

High Speed Steel ▪ 60º, 82º, and 90º



	60 Degrees			82 Degrees			90 Degrees		
Diameter Range	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"|5/16"|3/8"|1/2"|5/8"|3/4"|7/8"|1"	BC55R20060	222.64	96.40	BC55R20082	222.64	96.40	BC55R20090	222.64	96.40
3/16"|1/4"|5/16"|3/8"|1/2"|5/8"3/4"|7/8"|1"|1-1/4"|1-1/2"	BC55R21060	419.97	181.84	BC55R21082	419.97	181.84	BC55R21090	419.97	181.84

10288

Starrett 14 Pc. General Purpose Fastcut™ Hole Saw Kit

Bi-Metal

Includes:

- Nine bi-metal hole saws: 3/4, 7/8, 1-1/8, 1-3/8, 1-1/2, 1-3/4, 2, 2-1/4, & 2-1/2"
- One each A1, A2 arbors
- A014C high speed pilot drill bit
- A12 arbor adaptor
- A7 ejector spring



Order No.	Regular Price	SALE
FZ7001218	352.91	299.74

2333

KEO 5 Pc. 6 Flute Chatterless Countersink Sets

Carbide ▪ 60, 82, 90 and 100°

- Each set includes one of each :1/4, 3/8, 1/2, 5/8, 3/4"
- Available in uncoated or TiAlN coated



	Uncoated			TiALN		
Point Angle (SIG)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
60 Degrees	AV4255790	537.39	429.12	-	-	-
82 Degrees	AV4255801	537.39	429.12	AV4255801TIALN	824.01	658.00
90 Degrees	AV4255812	537.39	429.12	AV4255812TIALN	824.01	658.00
100 Degrees	AV4255823	537.39	429.12	-	-	-

30025

INTERNAL TOOL Carbide Profile Tools

- Solid micrograin carbide
- For i.d. and o.d. profiling
- All shanks have lockdown flat for faster setups
- Minimum Bore +.000-.005



Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Minimum Bore Diameter (DMIN)	Corner Radius (RE)	Cutting Depth Maximum (CDX)	Cutting Length	Order No.	Regular Price	SALE
1/8"	2"	0.09"	0.005"	0.2"	0.040"	GE97561000	53.73	42.98
1/8"	2"	0.09"	0.005"	0.3"	0.040"	GE97561005	53.73	42.98
1/8"	2"	0.09"	0.005"	0.4"	0.040"	GE97561010	53.73	42.98
1/8"	2"	0.12"	0.007"	1/4"	0.050"	GE97561080	53.73	42.98
1/8"	2"	0.12"	0.007"	1/2"	0.050"	GE97561085	53.73	42.98
1/8"	2"	0.12"	0.007"	3/4"	0.050"	GE97561090	53.73	42.98
3/16"	2-1/2"	0.18"	0.01"	1/2"	0.080"	GE97561100	56.36	45.09
3/16"	2-1/2"	0.18"	0.01"	3/4"	0.080"	GE97561105	56.36	45.09
3/16"	2-1/2"	0.18"	0.01"	1"	0.080"	GE97561110	56.36	45.09
1/4"	2-1/2"	0.22"	0.01"	1/2"	0.080"	GE97561115	63.28	50.62
1/4"	2-1/2"	0.22"	0.01"	3/4"	0.080"	GE97561120	63.28	50.62
1/4"	2-1/2"	0.22"	0.01"	1"	0.080"	GE97561125	63.28	50.62
5/16"	2-1/2"	0.3"	0.015"	1/2"	0.110"	GE97561130	79.38	63.50
5/16"	2-1/2"	0.3"	0.015"	3/4"	0.110"	GE97561135	79.38	63.50
5/16"	2-1/2"	0.3"	0.015"	1"	0.110"	GE97561140	79.38	63.50
3/8"	1/2"	0.36"	0.015"	1/2"	0.130"	GE97561145	102.13	81.70
3/8"	1/2"	0.36"	0.015"	3/4"	0.130"	GE97561150	102.38	81.90
3/8"	1/2"	0.36"	0.015"	1"	0.130"	GE97561155	102.38	81.90
3/8"	1/2"	0.36"	0.015"	1-1/4"	0.130"	GE97561160	102.38	81.90
3/8"	1/2"	0.49"	0.015"	1/2"	0.160"	GE97561165	131.22	104.98
3/8"	1/2"	0.49"	0.015"	3/4"	0.160"	GE97561170	131.22	104.98
3/8"	1/2"	0.49"	0.015"	1"	0.160"	GE97561175	131.22	104.98
3/8"	1/2"	0.49"	0.015"	1-1/4"	0.160"	GE97561180	131.22	104.98

30134

ITI INTERNAL TOOL™ Standard Carbide Grooving Tools

- Solid micrograin carbide
- Use for O-Ring grooves, retaining ring grooves and internal reliefs
- 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	
1/8″	2″	0.031″ / 0.032″	0.062″	0.020″	0.187″	**GE97201170**	40.71	**32.57**
1/8″	2″	0.031″ / 0.032″	0.062″	0.020″	1/4″	**GE97201175**	40.71	**32.57**
1/8″	2″	0.031″ / 0.032″	0.062″	0.020″	3/8″	**GE97201180**	40.71	**32.57**
1/8″	2″	0.046″ / 0.047″	3/32″	0.030″	1/4″	**GE97201185**	40.71	**32.57**
1/8″	2″	0.046″ / 0.047″	3/32″	0.030″	3/8″	**GE97201190**	40.71	**32.57**
1/8″	2″	0.046″ / 0.047″	3/32″	0.030″	1/2″	**GE97201195**	40.71	**32.57**
1/8″	2″	0.062″ / 0.063″	1/8″	0.040″	1/4″	**GE97201200**	40.71	**32.57**
1/8″	2″	0.062″ / 0.063″	1/8″	0.040″	3/8″	**GE97201205**	40.71	**32.57**
1/8″	2″	0.062″ / 0.063″	1/8″	0.040″	1/2″	**GE97201210**	40.71	**32.57**
1/8″	2″	0.062″ / 0.063″	1/8″	0.040″	5/8″	**GE97201215**	40.71	**32.57**
0.187″	2-1/2″	0.017″ / 0.018″	0.187″	0.050″	1/4″	**GE97201220**	47.17	**37.74**
0.187″	2-1/2″	0.017″ / 0.018″	0.187″	0.050″	3/8″	**GE97201225**	47.17	**37.74**
0.187″	2-1/2″	0.017″ / 0.018″	0.187″	0.050″	1/2″	**GE97201230**	47.17	**37.74**
0.187″	2-1/2″	0.017″ / 0.018″	0.187″	0.050″	5/8″	**GE97201235**	47.17	**37.74**
0.187″	2-1/2″	0.025″ / 0.026″	0.187″	0.050″	1/4″	**GE97201240**	47.17	**37.74**
0.187″	2-1/2″	0.025″ / 0.026″	0.187″	0.050″	3/8″	**GE97201245**	47.17	**37.74**
0.187″	2-1/2″	0.025″ / 0.026″	0.187″	0.050″	1/2″	**GE97201250**	47.17	**37.74**
0.187″	2-1/2″	0.025″ / 0.026″	0.187″	0.050″	5/8″	**GE97201255**	47.17	**37.74**
0.187″	2-1/2″	0.030″ / 0.031″	0.187″	0.050″	1/4″	**GE97201260**	47.17	**37.74**
0.187″	2-1/2″	0.030″ / 0.031″	0.187″	0.050″	3/8″	**GE97201265**	47.17	**37.74**
0.187″	2-1/2″	0.030″ / 0.031″	0.187″	0.050″	1/2″	**GE97201270**	47.17	**37.74**
0.187″	2-1/2″	0.030″ / 0.031″	0.187″	0.050″	5/8″	**GE97201275**	47.17	**37.74**
0.187″	2-1/2″	0.062″ / 0.063″	0.187″	0.050″	1/4″	**GE97201280**	47.17	**37.74**
0.187″	2-1/2″	0.062″ / 0.063″	0.187″	0.050″	3/8″	**GE97201285**	47.17	**37.74**
0.187″	2-1/2″	0.062″ / 0.063″	0.187″	0.050″	1/2″	**GE97201290**	47.17	**37.74**
0.187″	2-1/2″	0.062″ / 0.063″	0.187″	0.050″	5/8″	**GE97201295**	47.17	**37.74**
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	1/4″	**GE97201300**	48.59	**38.87**
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	3/8″	**GE97201305**	48.59	**38.87**
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	1/2″	**GE97201310**	48.59	**38.87**
1/4″	2-1/2″	0.017″ / 0.018″	1/4″	0.050″	5/8″	**GE97201315**	48.59	**38.87**
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	1/4″	**GE97201320**	48.59	**38.87**
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	3/8″	**GE97201325**	48.59	**38.87**
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	1/2″	**GE97201330**	48.59	**38.87**
1/4″	2-1/2″	0.025″ / 0.026″	1/4″	0.050″	5/8″	**GE97201335**	48.59	**38.87**
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	1/4″	**GE97201340**	48.59	**38.87**
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	3/8″	**GE97201345**	48.59	**38.87**
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	1/2″	**GE97201350**	48.59	**38.87**
1/4″	2-1/2″	0.030″ / 0.031″	1/4″	0.050″	5/8″	**GE97201355**	48.59	**38.87**
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	3/8″	**GE97201356**	48.59	**38.87**
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	1/2″	**GE97201357**	48.59	**38.87**
1/4″	2-1/2″	0.062″ / 0.064″	1/4″	0.050″	5/8″	**GE97201358**	48.59	**38.87**
0.312″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	1/4″	**GE97201360**	60.69	**48.55**
0.312″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	3/8″	**GE97201365**	60.69	**48.55**
0.312″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	1/2″	**GE97201370**	60.69	**48.55**
0.312″	2-1/2″	0.033″ / 0.034″	0.312″	0.100″	3/4″	**GE97201375**	60.69	**48.55**
0.312″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	1/4″	**GE97201380**	60.69	**48.55**
0.312″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	3/8″	**GE97201385**	60.69	**48.55**
0.312″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	1/2″	**GE97201390**	60.69	**48.55**
0.312″	2-1/2″	0.038″ / 0.039″	0.312″	0.100″	3/4″	**GE97201395**	60.69	**48.55**
0.312″	2-1/2″	0.062″ / 0.064″	0.312″	0.100″	1/2″	**GE97201400**	60.69	**48.55**
0.312″	2-1/2″	0.062″ / 0.064″	0.312″	0.100″	3/4″	**GE97201405**	60.69	**48.55**
0.312″	2-1/2″	0.062″ / 0.064″	0.312″	0.100″	1″	**GE97201410**	60.69	**48.55**
0.312″	2-1/2″	0.093″ / 0.095″	0.312″	0.100″	1/2″	**GE97201415**	60.69	**48.55**
0.312″	2-1/2″	0.093″ / 0.095″	0.312″	0.100″	3/4″	**GE97201420**	60.69	**48.55**
0.312″	2-1/2″	0.093″ / 0.095″	0.312″	0.100″	1″	**GE97201425**	60.69	**48.55**
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1/4″	**GE97201430**	79.44	**63.55**
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	3/8″	**GE97201435**	79.44	**63.55**
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1/2″	**GE97201440**	79.44	**63.55**
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	3/4″	**GE97201445**	79.44	**63.55**
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1″	**GE97201450**	79.44	**63.55**
3/8″	2-1/2″	0.039″ / 0.041″	3/8″	0.100″	1-1/4″	**GE97201455**	79.44	**63.55**
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1/4″	**GE97201460**	79.44	**63.55**
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	3/8″	**GE97201465**	79.44	**63.55**

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	
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1/2″	**GE97201470**	79.44	**63.55**
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	3/4″	**GE97201475**	79.44	**63.55**
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1″	**GE97201480**	79.44	**63.55**
3/8″	2-1/2″	0.046″ / 0.048″	3/8″	0.100″	1-1/4″	**GE97201485**	79.44	**63.55**
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1/4″	**GE97201490**	79.44	**63.55**
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	3/8″	**GE97201495**	79.44	**63.55**
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1/2″	**GE97201500**	79.44	**63.55**
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	3/4″	**GE97201505**	79.44	**63.55**
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1″	**GE97201510**	79.44	**63.55**
3/8″	2-1/2″	0.055″ / 0.057″	3/8″	0.100″	1-1/4″	**GE97201515**	79.44	**63.55**
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1/4″	**GE97201520**	79.44	**63.55**
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	3/8″	**GE97201525**	79.44	**63.55**
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1/2″	**GE97201530**	79.44	**63.55**
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	3/4″	**GE97201535**	79.44	**63.55**
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1″	**GE97201540**	79.44	**63.55**
3/8″	2-1/2″	0.062″ / 0.064″	3/8″	0.100″	1-1/4″	**GE97201545**	79.44	**63.55**
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1/4″	**GE97201550**	79.44	**63.55**
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	3/8″	**GE97201555**	79.44	**63.55**
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1/2″	**GE97201560**	79.44	**63.55**
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	3/4″	**GE97201565**	79.44	**63.55**
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1″	**GE97201570**	79.44	**63.55**
3/8″	2-1/2″	0.069″ / 0.071″	3/8″	0.100″	1-1/4″	**GE97201575**	79.44	**63.55**
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1/4″	**GE97201580**	79.44	**63.55**
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	3/8″	**GE97201585**	79.44	**63.55**
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1/2″	**GE97201590**	79.44	**63.55**
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	3/4″	**GE97201595**	79.44	**63.55**
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1″	**GE97201600**	79.44	**63.55**
3/8″	2-1/2″	0.087″ / 0.089″	3/8″	0.100″	1-1/4″	**GE97201605**	79.44	**63.55**
3/8″	2-1/2″	0.093″ / 0.095″	3/8″	0.100″	1/2″	**GE97201610**	79.44	**63.55**
3/8″	2-1/2″	0.093″ / 0.095″	3/8″	0.100″	3/4″	**GE97201615**	79.44	**63.55**
3/8″	2-1/2″	0.093″ / 0.095″	3/8″	0.100″	1″	**GE97201620**	79.44	**63.55**
3/8″	2-1/2″	0.125″ / 0.127″	3/8″	0.100″	1/2″	**GE97201625**	79.44	**63.55**
3/8″	2-1/2″	0.125″ / 0.127″	3/8″	0.100″	3/4″	**GE97201630**	79.44	**63.55**
3/8″	2-1/2″	0.125″ / 0.127″	3/8″	0.100″	1″	**GE97201635**	79.44	**63.55**
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1/2″	**GE97201640**	112.31	**89.85**
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	3/4″	**GE97201645**	112.31	**89.85**
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1″	**GE97201650**	112.31	**89.85**
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1-1/4″	**GE97201655**	112.31	**89.85**
1/2″	3″	0.093″ / 0.095″	1/2″	0.150″	1-1/2″	**GE97201660**	112.31	**89.85**
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1/2″	**GE97201665**	112.31	**89.85**
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	3/4″	**GE97201670**	112.31	**89.85**
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1″	**GE97201675**	112.31	**89.85**
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1-1/4″	**GE97201680**	112.31	**89.85**
1/2″	3″	0.125″ / 0.127″	1/2″	0.150″	1-1/2″	**GE97201685**	112.31	**89.85**
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1/2″	**GE97201690**	112.31	**89.85**
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	3/4″	**GE97201695**	112.31	**89.85**
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1″	**GE97201700**	112.31	**89.85**
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1-1/4″	**GE97201705**	112.31	**89.85**
1/2″	3″	0.156″ / 0.158″	1/2″	0.150″	1-1/2″	**GE97201710**	112.31	**89.85**
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1/2″	**GE97201715**	112.31	**89.85**
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	3/4″	**GE97201720**	112.31	**89.85**
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1″	**GE97201725**	112.31	**89.85**
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1-1/4″	**GE97201730**	112.31	**89.85**
1/2″	3″	0.187″ / 0.189″	1/2″	0.150″	1-1/2″	**GE97201735**	112.31	**89.85**
1/2″	3″	0.250 ″/ 0.252″	1/2″	0.150″	1/2″	**GE97201740**	112.31	**89.85**
1/2″	3″	0.250 ″/ 0.252″	1/2″	0.150″	3/4″	**GE97201745**	112.31	**89.85**
1/2″	3″	0.250 ″/ 0.252″	1/2″	0.150″	1″	**GE97201750**	112.31	**89.85**
1/2″	3″	0.250 ″/ 0.252″	1/2″	0.150″	1-1/4″	**GE97201755**	112.31	**89.85**
1/2″	3″	0.250 ″/ 0.252″	1/2″	0.150″	1-1/2″	**GE97201760**	112.31	**89.85**
1/4″	2-1/2″	0.103″ / 0.105″	3/8″	0.050″	1/2″	**GE97209910**	73.56	**58.85**
1/4″	2-1/2″	0.120″ / 0.122″	3/8″	0.050″	1/2″	**GE97209915**	73.56	**58.85**

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INTERNAL TOOL Quick Change Carbide Grooving Tools



- Solid micrograin carbide
- For retaining ring grooves and internal reliefs
- All tools are locked into our special holder maintaining an exact radial and axial position for quick tool changes
- Less cost you replace only the tips when worn
- Minimum Bore +.000-.005

Connection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Cutting Width (CW)	Cutting Depth Maximum (CDX)	Cutting Length	Order No.	Regular Price	SALE
3/16″	0.185″	0.018″	0.2″	0.060″	GE97427000	42.43	33.94
3/16″	0.185″	0.018″	0.3″	0.060″	GE97427005	42.43	33.94
3/16″	0.185″	0.018″	0.4″	0.060″	GE97427010	42.43	33.94
3/16″	0.185″	0.018″	1/2″	0.060″	GE97427015	42.43	33.94
3/16″	0.185″	0.018″	0.6″	0.060″	GE97427020	42.43	33.94
3/16″	0.185″	0.018″	0.7″	0.060″	GE97427025	42.43	33.94
3/16″	0.185″	0.029″	0.2″	0.060″	GE97427030	42.43	33.94
3/16″	0.185″	0.029″	0.3″	0.060″	GE97427035	42.43	33.94
3/16″	0.185″	0.029″	0.4″	0.060″	GE97427040	42.43	33.94
3/16″	0.185″	0.029″	1/2″	0.060″	GE97427045	42.43	33.94
3/16″	0.185″	0.029″	0.6″	0.060″	GE97427050	42.43	33.94
3/16″	0.185″	0.029″	0.7″	0.060″	GE97427055	42.43	33.94
3/16″	0.185″	0.032″	0.2″	0.060″	GE97427060	42.43	33.94
3/16″	0.185″	0.032″	0.3″	0.060″	GE97427065	42.43	33.94
3/16″	0.185″	0.032″	0.4″	0.060″	GE97427070	42.43	33.94
3/16″	0.185″	0.032″	1/2″	0.060″	GE97427075	42.43	33.94
3/16″	0.185″	0.032″	0.6″	0.060″	GE97427080	42.43	33.94
3/16″	0.185″	0.032″	0.7″	0.060″	GE97427085	42.43	33.94
3/16″	0.185″	0.033″	0.2″	0.060″	GE97427090	42.43	33.94
3/16″	0.185″	0.033″	0.3″	0.060″	GE97427095	42.43	33.94
3/16″	0.185″	0.033″	0.4″	0.060″	GE97427100	42.43	33.94
3/16″	0.185″	0.033″	1/2″	0.060″	GE97427105	42.43	33.94
3/16″	0.185″	0.033″	0.6″	0.060″	GE97427110	42.43	33.94
3/16″	0.185″	0.033″	0.7″	0.060″	GE97427115	42.43	33.94
3/16″	0.185″	0.039″	0.2″	0.060″	GE97427120	42.43	33.94
3/16″	0.185″	0.039″	0.3″	0.060″	GE97427125	42.43	33.94
3/16″	0.185″	0.039″	0.4″	0.060″	GE97427130	42.43	33.94
3/16″	0.185″	0.039″	1/2″	0.060″	GE97427135	42.43	33.94
3/16″	0.185″	0.039″	0.6″	0.060″	GE97427140	42.43	33.94
3/16″	0.185″	0.039″	0.7″	0.060″	GE97427145	42.43	33.94
3/16″	0.185″	0.04″	0.2″	0.060″	GE97427150	42.43	33.94
3/16″	0.185″	0.04″	0.3″	0.060″	GE97427155	42.43	33.94
3/16″	0.185″	0.04″	0.4″	0.060″	GE97427160	42.43	33.94
3/16″	0.185″	0.04″	1/2″	0.060″	GE97427165	42.43	33.94
3/16″	0.185″	0.04″	0.6″	0.060″	GE97427170	42.43	33.94
3/16″	0.185″	0.04″	0.7″	0.060″	GE97427175	42.43	33.94
3/16″	0.185″	0.046″	0.2″	0.060″	GE97427180	42.43	33.94
3/16″	0.185″	0.046″	0.3″	0.060″	GE97427185	42.43	33.94
3/16″	0.185″	0.046″	0.4″	0.060″	GE97427190	42.43	33.94
3/16″	0.185″	0.046″	1/2″	0.060″	GE97427195	42.43	33.94
3/16″	0.185″	0.046″	0.6″	0.060″	GE97427200	42.43	33.94
3/16″	0.185″	0.046″	0.7″	0.060″	GE97427205	42.43	33.94
3/16″	0.185″	0.048″	0.2″	0.060″	GE97427210	42.43	33.94
3/16″	0.185″	0.048″	0.3″	0.060″	GE97427215	42.43	33.94
3/16″	0.185″	0.048″	0.4″	0.060″	GE97427220	42.43	33.94
3/16″	0.185″	0.048″	1/2″	0.060″	GE97427225	42.43	33.94
3/16″	0.185″	0.048″	0.6″	0.060″	GE97427230	42.43	33.94
3/16″	0.185″	0.048″	0.7″	0.060″	GE97427235	42.43	33.94
3/16″	0.185″	0.056″	0.2″	0.060″	GE97427240	42.43	33.94
3/16″	0.185″	0.056″	0.3″	0.060″	GE97427245	42.43	33.94
3/16″	0.185″	0.056″	0.4″	0.060″	GE97427250	42.43	33.94
3/16″	0.185″	0.056″	1/2″	0.060″	GE97427255	42.43	33.94
3/16″	0.185″	0.056″	0.6″	0.060″	GE97427260	42.43	33.94
3/16″	0.185″	0.056″	0.7″	0.060″	GE97427265	42.43	33.94
3/16″	0.185″	0.062″	0.2″	0.060″	GE97427270	42.43	33.94
3/16″	0.185″	0.062″	0.3″	0.060″	GE97427275	42.43	33.94
3/16″	0.185″	0.062″	0.4″	0.060″	GE97427280	42.43	33.94
3/16″	0.185″	0.062″	1/2″	0.060″	GE97427285	42.43	33.94
3/16″	0.185″	0.062″	0.6″	0.060″	GE97427290	42.43	33.94
3/16″	0.185″	0.062″	0.7″	0.060″	GE97427295	42.43	33.94

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INTERNAL TOOL Quick Change Carbide Boring Tools



- Solid micrograin carbide
- All tools are locked into our special holder maintaining an exact radial and axial position for quick tool changes
- Less cost you replace only the tips when worn
- Minimum Bore +.000/-.002

Connection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Overhang Minimum (OHN)	Order No.	Regular Price	SALE
3/16″	0.03″	0.1″	GE97420980	33.60	26.88
3/16″	0.03″	0.15″	GE97420985	33.60	26.88
3/16″	0.04″	0.2″	GE97420990	33.60	26.88
3/16″	0.04″	0.3″	GE97420995	33.60	26.88
3/16″	0.05″	0.2″	GE97421000	33.60	26.88
3/16″	0.05″	0.3″	GE97421005	33.60	26.88
3/16″	0.06″	0.2″	GE97421010	33.60	26.88
3/16″	0.06″	0.3″	GE97421015	33.60	26.88
3/16″	0.06″	0.4″	GE97421020	33.60	26.88
3/16″	0.06″	1/2″	GE97421025	33.60	26.88
3/16″	0.08″	0.2″	GE97421030	33.60	26.88
3/16″	0.08″	0.3″	GE97421035	33.60	26.88
3/16″	0.08″	0.4″	GE97421040	33.60	26.88
3/16″	0.08″	1/2″	GE97421045	33.60	26.88
3/16″	0.1″	0.2″	GE97421050	33.60	26.88
3/16″	0.1″	0.3″	GE97421055	33.60	26.88
3/16″	0.1″	0.4″	GE97421060	33.60	26.88
3/16″	0.1″	1/2″	GE97421065	33.60	26.88
3/16″	0.1″	0.6″	GE97421070	33.60	26.88
3/16″	0.1″	0.7″	GE97421075	33.60	26.88
3/16″	0.12″	0.2″	GE97421080	33.60	26.88
3/16″	0.12″	0.3″	GE97421085	33.60	26.88
3/16″	0.12″	0.4″	GE97421090	33.60	26.88
3/16″	0.12″	1/2″	GE97421095	33.60	26.88
3/16″	0.12″	0.6″	GE97421100	33.60	26.88
3/16″	0.12″	0.7″	GE97421105	33.60	26.88
3/16″	0.14″	0.2″	GE97421110	33.60	26.88
3/16″	0.14″	0.3″	GE97421115	33.60	26.88
3/16″	0.14″	0.4″	GE97421120	33.60	26.88
3/16″	0.14″	1/2″	GE97421125	33.60	26.88
3/16″	0.14″	0.6″	GE97421130	33.60	26.88
3/16″	0.14″	0.7″	GE97421135	33.60	26.88
3/16″	0.16″	0.2″	GE97421140	33.60	26.88
3/16″	0.16″	0.3″	GE97421145	33.60	26.88
3/16″	0.16″	0.4″	GE97421150	33.60	26.88
3/16″	0.16″	1/2″	GE97421155	33.60	26.88
3/16″	0.16″	0.6″	GE97421160	33.60	26.88
3/16″	0.16″	0.7″	GE97421165	33.60	26.88
3/16″	0.16″	0.8″	GE97421170	33.60	26.88
3/16″	0.16″	0.9″	GE97421175	33.60	26.88
3/16″	0.16″	1″	GE97421180	33.60	26.88
3/16″	0.16″	1.1″	GE97421185	33.60	26.88
3/16″	0.18″	0.2″	GE97421190	33.60	26.88
3/16″	0.18″	0.3″	GE97421195	33.60	26.88
3/16″	0.18″	0.4″	GE97421200	33.60	28.51
3/16″	0.18″	1/2″	GE97421205	33.60	26.88
3/16″	0.18″	0.6″	GE97421210	33.60	26.88
3/16″	0.18″	0.7″	GE97421215	33.60	26.88
3/16″	0.18″	0.8″	GE97421220	33.60	26.88
3/16″	0.18″	0.9″	GE97421225	33.60	26.88
3/16″	0.18″	1″	GE97421230	33.60	26.88
3/16″	0.18″	1.1″	GE97421235	33.60	26.88

30130

INTERNAL TOOL Multi-Reach Boring Bars



- Solid Micrograin Carbide
- Reach is Not limited by neck length
- Solid carbide shank and head silver soldered together
- Minimum Bore +.000/-.005

				Uncoated			AlTiN		
Connection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Overall Length (OAL)	Corner Radius (RE)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.187"	0.22"	4"	0.005"	GE97041095	92.51	74.01	GE97041095C	101.86	81.49
1/4"	0.28"	4"	0.007"	GE97041100	92.51	74.01	GE97041100C	101.86	81.49
0.312"	0.35"	4"	0.007"	GE97041110	110.49	88.39	GE97041110C	125.44	100.35
3/8"	0.42"	6"	0.01"	GE97041120	133.98	107.18	GE97041120C	156.44	125.15
1/2"	0.56"	6"	0.01"	GE97041130	187.61	150.09	GE97041130C	213.79	171.03
5/8"	0.7"	6"	0.015"	GE97041140	254.18	203.34	GE97041140C	285.03	228.02

30124

Machine Tapping Guide



- Provides sensitive feel for hand tapping small holes on milling machines, drilling presses, and lathes
- Starts every hole straight and prevents tap breakage
- Shank diameter is 3/8; handle diameter is 1"
- #0 to #12 tap capacity

Order No.	Regular Price	SALE
EV52223	30.92	22.65

9957

MICRO 100 Speedy Sharp Knife Sharpener



- Space-age carbide edge "Peels the Steel" to renew your blade's keen edge
- Easily fits in pocket or tool box

Order No.	Regular Price	SALE
GE45KS1	26.26	21.01

414

RAPIDKUT European DIN355 C Style Countersinks



- 3 Flute
- Countersinks made from M35 COBALT Material
- Flutes open wide for greater chip removal
- High positive cut
- Constant profile is excellent for re-grinding
- Self-centering
- Vibration free
- Tools are adapted to countersink 82 Deg. and 90 Deg. cap screws.

			82 Degrees			90 Degrees		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	1/4"	1-3/4"	BC6682016	22.61	16.57	BC6690016	27.26	19.98
5/16"	1/4"	1-3/4"	BC6682020	26.84	19.67	BC6690020	36.12	26.47
3/8"	1/4"	2"	BC6682024	30.28	22.19	BC6690024	38.84	28.46
1/2"	1/4"	2"	BC6682032	34.61	25.36	BC6690032	43.78	32.08
5/8"	3/8"	2-3/8"	BC6682040	56.60	41.49	BC6690040	67.03	49.13
3/4"	3/8"	2-3/8"	BC6682048	55.87	40.95	BC6690048	68.14	49.94
1"	3/8"	2-3/4"	BC6682064	73.60	53.93	BC6690064	84.55	61.96

28751

KEO Spotting & Centering Drills

High Speed Steel ▪ 90° and 118° ▪ Right and Left Hand



- Prevent misalignment frequently caused by using regular drills for centering
- These short drills can be chucked close to the point ensuring accuracy and true starts

			90 Degrees, Right Hand			118 Degrees, Right Hand			90 Degrees, Left Hand			118 Degrees, Left Hand		
Point Diameter (PDD)	Flute Length	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	3/8"	1-1/4"	AV4230151	9.67	7.09	AV4230150	9.67	7.09	AV4230156	31.67	23.21	AV4230155	31.67	23.21
3/16"	1/2"	1-3/8"	AV4230181	10.50	7.70	AV4230180	10.50	7.70	AV4230186	28.21	20.67	AV4230185	28.21	20.67
1/4"	5/8"	1-1/2"	AV4230251	11.58	8.48	AV4230250	11.58	8.48	AV4230256	29.05	21.30	AV4230255	29.05	21.30
5/16"	5/8"	1-1/2"	AV4230311	13.15	9.63	AV4230310	13.15	9.63	AV4230316	31.15	22.84	AV4230315	31.15	22.84
3/8"	1"	2"	AV4230381	14.91	10.93	AV4230380	14.91	10.93	AV4230386	37.48	27.46	AV4230385	37.48	27.46
7/16"	1"	2"	AV4230761	20.09	14.73	AV4230760	20.09	14.73	AV4230766	39.66	29.07	AV4230765	39.66	29.07
1/2"	1"	2"	AV4230121	24.60	18.02	AV4230120	24.60	18.02	AV4230126	43.57	31.93	AV4230125	43.57	31.93
9/16"	1"	2"	AV4230961	36.64	26.85	AV4230960	36.64	26.85	AV4230966	48.86	35.82	AV4230965	48.86	35.82
5/8"	1-1/8"	2-1/4"	AV4230581	40.70	29.82	AV4230580	40.70	29.82	AV4230586	53.69	39.35	AV4230585	53.69	39.35
3/4"	1-1/8"	2-1/4"	AV4230341	56.59	41.47	AV4230340	56.59	41.47	AV4230346	78.19	57.31	AV4230345	78.19	57.31
7/8"	1-1/4"	2-1/2"	AV4230781	69.34	50.82	AV4230780	69.34	50.82	AV4230786	91.80	67.27	AV4230785	91.80	67.27
1"	1-1/4"	2-1/2"	AV4231001	88.65	64.97	AV4231000	88.65	64.97	AV4231006	118.31	86.71	AV4231005	118.31	86.71
1-1/4"	2"	4"	AV4231141	173.63	127.26	AV4231140	173.63	127.26	AV4231146	229.22	168.00	AV4231145	229.22	168.00
1-1/2"	2-1/2"	5"	AV4231121	270.80	198.48	AV4231120	270.80	198.48	AV4231126	357.57	262.07	AV4231125	357.57	262.07
1-3/4"	2-3/4"	5-1/2"	AV4231341	408.41	299.31	AV4231340	408.41	299.31	AV4231346	538.17	394.43	AV4231345	538.17	394.43

22331

INTERNAL TOOL™ Solid Carbide Boring Tools

- Solid Micrograin Carbide
- For boring all types of material
- All shanks have lockdown flat for faster setups
- Tapered neck and fillet radius provide maximum rigidity
- Minimum Bore +.000/-.005



Connection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Overall Length (OAL)	Overhang Minimum (OHN)	Order No.	Regular Price	SALE
1/8″	0.05″	2″	0.15″	GE97101000	33.94	27.15
1/8″	0.05″	2″	0.2″	GE97101005	33.94	27.15
1/8″	0.05″	2″	0.3″	GE97101010	33.94	27.15
1/8″	0.05″	2″	0.4″	GE97101015	33.94	27.15
1/8″	0.06″	2″	0.15″	GE97101020	33.94	27.15
1/8″	0.06″	2″	0.2″	GE97101025	33.94	27.15
1/8″	0.06″	2″	0.3″	GE97101030	33.94	27.15
1/8″	0.06″	2″	0.4″	GE97101035	33.94	27.15
1/8″	0.06″	2″	1/2″	GE97101040	33.94	27.15
1/8″	0.08″	2″	0.15″	GE97101045	33.94	27.15
1/8″	0.08″	2″	0.2″	GE97101050	33.94	27.15
1/8″	0.08″	2″	0.3″	GE97101055	33.94	27.15
1/8″	0.08″	2″	0.4″	GE97101060	33.94	27.15
1/8″	0.08″	2″	1/2″	GE97101065	33.94	27.15
1/8″	0.08″	2″	0.6″	GE97101070	33.94	27.15
1/8″	0.1″	2″	0.15″	GE97101075	33.94	27.15
1/8″	0.1″	2″	0.2″	GE97101080	33.94	27.15
1/8″	0.1″	2″	0.3″	GE97101085	33.94	27.15
1/8″	0.1″	2″	0.4″	GE97101090	33.94	27.15
1/8″	0.1″	2″	1/2″	GE97101095	33.94	27.15
1/8″	0.1″	2″	0.6″	GE97101100	33.94	27.15
1/8″	0.1″	2″	0.7″	GE97101105	33.94	27.15
1/8″	0.11″	2″	0.15″	GE97101110	33.94	27.15
1/8″	0.11″	2″	0.2″	GE97101115	33.94	27.15
1/8″	0.11″	2″	0.3″	GE97101120	33.94	27.15
1/8″	0.11″	2″	0.4″	GE97101125	33.94	27.15
1/8″	0.11″	2″	1/2″	GE97101130	33.94	27.15
1/8″	0.11″	2″	0.6″	GE97101135	33.94	27.15
1/8″	0.11″	2″	0.7″	GE97101140	33.94	27.15
3/16″	0.12″	2-1/2″	1/4″	GE97101145	36.36	29.09
3/16″	0.12″	2-1/2″	0.35″	GE97101150	36.36	29.09
3/16″	0.12″	2-1/2″	1/2″	GE97101155	36.36	29.09
3/16″	0.12″	2-1/2″	0.6″	GE97101160	36.36	29.09
3/16″	0.12″	2-1/2″	0.7″	GE97101165	36.36	29.09
3/16″	0.12″	2-1/2″	0.8″	GE97101170	36.36	29.09
3/16″	0.14″	2-1/2″	1/4″	GE97101175	36.36	29.09
3/16″	0.14″	2-1/2″	0.4″	GE97101180	36.36	29.09
3/16″	0.14″	2-1/2″	1/2″	GE97101185	36.36	29.09
3/16″	0.14″	2-1/2″	0.6″	GE97101190	36.36	29.09
3/16″	0.14″	2-1/2″	0.7″	GE97101195	36.36	29.09
3/16″	0.14″	2-1/2″	3/4″	GE97101200	36.36	29.09
3/16″	0.14″	2-1/2″	0.8″	GE97101205	36.36	29.09
3/16″	0.16″	2-1/2″	1/4″	GE97101210	36.36	29.09
3/16″	0.16″	2-1/2″	0.4″	GE97101215	36.36	29.09
3/16″	0.16″	2-1/2″	1/2″	GE97101220	36.36	29.09
3/16″	0.16″	2-1/2″	0.6″	GE97101225	36.36	29.09
3/16″	0.16″	2-1/2″	3/4″	GE97101230	36.36	29.09
3/16″	0.16″	2-1/2″	0.9″	GE97101235	36.36	29.09
3/16″	0.16″	2-1/2″	1″	GE97101240	36.36	29.09
1/4″	0.18″	2-1/2″	0.35″	GE97101245	39.14	31.31
1/4″	0.18″	2-1/2″	1/2″	GE97101250	39.14	31.31
1/4″	0.18″	2-1/2″	0.6″	GE97101255	39.14	31.31
1/4″	0.18″	2-1/2″	3/4″	GE97101260	39.14	31.31
1/4″	0.18″	2-1/2″	0.9″	GE97101265	39.14	31.31
1/4″	0.18″	2-1/2″	1″	GE97101270	39.14	31.31
1/4″	0.18″	2-1/2″	1.1″	GE97101275	39.14	31.31
1/4″	0.2″	2-1/2″	0.4″	GE97101280	39.14	31.31
1/4″	0.2″	2-1/2″	1/2″	GE97101285	39.14	31.31
1/4″	0.2″	2-1/2″	0.6″	GE97101290	39.14	31.31
1/4″	0.2″	2-1/2″	0.7″	GE97101295	39.14	31.31
1/4″	0.2″	2-1/2″	0.8″	GE97101300	39.14	31.31
1/4″	0.2″	2-1/2″	0.9″	GE97101305	39.14	31.31
1/4″	0.2″	2-1/2″	1″	GE97101310	39.14	31.31
1/4″	0.2″	2-1/2″	1.1″	GE97101315	39.14	31.31
1/4″	0.2″	2-1/2″	1.2″	GE97101320	39.14	31.31
1/4″	0.2″	2-1/2″	1.3″	GE97101325	39.14	31.31
5/16″	0.23″	2-1/2″	0.4″	GE97101330	53.66	42.93
5/16″	0.23″	2-1/2″	1/2″	GE97101335	53.66	42.93
5/16″	0.23″	2-1/2″	0.6″	GE97101340	53.66	42.93
5/16″	0.23″	2-1/2″	0.7″	GE97101345	53.66	42.93
5/16″	0.23″	2-1/2″	0.8″	GE97101350	53.66	42.93
5/16″	0.23″	2-1/2″	0.9″	GE97101355	53.66	42.93
5/16″	0.23″	2-1/2″	1″	GE97101360	53.66	42.93
5/16″	0.23″	2-1/2″	1.15″	GE97101365	53.66	42.93
5/16″	0.23″	2-1/2″	1.2″	GE97101370	53.66	42.93
5/16″	0.23″	2-1/2″	1-1/4″	GE97101375	53.66	42.93
5/16″	0.23″	2-1/2″	1.4″	GE97101380	53.66	42.93
5/16″	0.23″	2-1/2″	1-1/2″	GE97101385	53.66	42.93
5/16″	0.23″	2-1/2″	1.6″	GE97101390	53.66	42.93
5/16″	0.29″	2-1/2″	1/2″	GE97101395	53.66	42.93
5/16″	0.29″	2-1/2″	0.6″	GE97101400	53.66	42.93
5/16″	0.29″	2-1/2″	3/4″	GE97101405	53.66	42.93
5/16″	0.29″	2-1/2″	0.9″	GE97101410	53.66	42.93
5/16″	0.29″	2-1/2″	1″	GE97101415	53.66	42.93
5/16″	0.29″	2-1/2″	1.1″	GE97101420	53.66	42.93
5/16″	0.29″	2-1/2″	1-1/4″	GE97101425	53.66	42.93
5/16″	0.29″	2-1/2″	1.35″	GE97101430	53.66	42.93
5/16″	0.29″	2-1/2″	1-1/2″	GE97101435	53.66	42.93
5/16″	0.29″	2-1/2″	1.6″	GE97101440	53.66	42.93
5/16″	0.29″	2-1/2″	1-3/4″	GE97101445	53.66	42.93
3/8″	0.32″	2-1/2″	1/2″	GE97101450	75.01	60.01
3/8″	0.32″	2-1/2″	0.6″	GE97101455	75.01	60.01
3/8″	0.32″	2-1/2″	3/4″	GE97101460	75.01	60.01
3/8″	0.32″	2-1/2″	0.9″	GE97101465	75.01	60.01
3/8″	0.32″	2-1/2″	1″	GE97101470	75.01	60.01
3/8″	0.32″	2-1/2″	1.1″	GE97101475	75.01	60.01
3/8″	0.32″	2-1/2″	1-1/4″	GE97101480	75.01	60.01
3/8″	0.32″	2-1/2″	1-1/2″	GE97101485	75.01	60.01
3/8″	0.32″	2-1/2″	1.6″	GE97101490	75.01	60.01
3/8″	0.32″	2-1/2″	1.8″	GE97101495	75.01	60.01
3/8″	0.32″	4″	2″	GE97101500	96.52	77.22
3/8″	0.32″	4″	2-1/2″	GE97101505	96.52	77.22
3/8″	0.32″	4″	3″	GE97101510	96.52	77.22
3/8″	0.36″	2-1/2″	1/2″	GE97101515	75.01	60.01
3/8″	0.36″	2-1/2″	0.6″	GE97101520	75.01	60.01
3/8″	0.36″	2-1/2″	3/4″	GE97101525	75.01	60.01
3/8″	0.36″	2-1/2″	0.9″	GE97101530	75.01	60.01
3/8″	0.36″	2-1/2″	1″	GE97101535	75.01	60.01
3/8″	0.36″	2-1/2″	1.15″	GE97101540	75.01	60.01
3/8″	0.36″	2-1/2″	1-1/4″	GE97101545	75.01	60.01
3/8″	0.36″	2-1/2″	1-1/2″	GE97101550	75.01	60.01
3/8″	0.36″	2-1/2″	1.6″	GE97101555	75.01	60.01
3/8″	0.36″	2-1/2″	1.8″	GE97101560	75.01	60.01
3/8″	0.36″	4″	2″	GE97101565	96.52	77.22
3/8″	0.36″	4″	2-1/2″	GE97101570	96.52	77.22
3/8″	0.36″	4″	3″	GE97101575	96.52	77.22
1/2″	0.49″	3″	3/4″	GE97101580	105.22	84.18
1/2″	0.49″	3″	1″	GE97101585	105.22	84.18
1/2″	0.49″	3″	1-1/4″	GE97101590	105.22	84.18
1/2″	0.49″	3″	1-1/2″	GE97101595	105.22	84.18
1/2″	0.49″	4″	2″	GE97101600	115.04	92.03
1/2″	0.49″	4″	2-1/2″	GE97101605	115.04	92.03
1/2″	0.49″	4″	2.6″	GE97101610	115.04	92.03
1/2″	0.49″	6″	3″	GE97101615	144.96	115.97
1/2″	0.49″	6″	3-1/2″	GE97101620	144.96	115.97
1/2″	0.49″	6″	4″	GE97101625	144.96	115.97
1/2″	0.49″	6″	4-1/2″	GE97101630	144.96	115.97

30125

INTERNAL TOOL™ Max Bore Solid Carbide Boring Tools



- AlTiN Coated for Longer Life
- Solid micrograin carbide
- An elliptical neck for greater strength
- For boring tough materials such as stainless, titanium, etc
- All shanks have lockdown flat for faster setups
- Helical flute for maximum shearing action
- Minimum bore +.000/-.005

Connection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Overall Length (OAL)	Overhang Minimum (OHN)	Corner Radius (RE)	Order No.	Regular Price	SALE
1/8″	0.05″	2″	0.2″	0.007″	GE97181000	34.24	27.39
1/8″	0.05″	2″	0.3″	0.007″	GE97181005	34.24	27.39
1/8″	0.05″	2″	0.4″	0.007″	GE97181010	34.24	27.39
1/8″	0.06″	2″	0.2″	0.007″	GE97181015	34.24	27.39
1/8″	0.06″	2″	0.3″	0.007″	GE97181020	34.24	27.39
1/8″	0.06″	2″	0.4″	0.007″	GE97181025	34.24	27.39
1/8″	0.06″	2″	1/2″	0.007″	GE97181030	34.24	27.39
1/8″	0.08″	2″	0.2″	0.007″	GE97181035	34.24	27.39
1/8″	0.08″	2″	0.3″	0.007″	GE97181040	34.24	27.39
1/8″	0.08″	2″	0.4″	0.007″	GE97181045	34.24	27.39
1/8″	0.08″	2″	1/2″	0.007″	GE97181050	34.24	27.39
1/8″	0.08″	2″	0.6″	0.007″	GE97181055	34.24	27.39
1/8″	0.09″	2″	0.4″	0.007″	GE97181060	44.77	35.82
1/8″	0.09″	2″	1/2″	0.007″	GE97181065	44.77	35.82
1/8″	0.09″	2″	0.6″	0.007″	GE97181070	44.77	35.82
1/8″	0.1″	2″	0.3″	0.007″	GE97181075	44.77	35.82
1/8″	0.1″	2″	0.4″	0.007″	GE97181080	44.77	35.82
1/8″	0.1″	2″	1/2″	0.007″	GE97181085	44.77	35.82
1/8″	0.1″	2″	0.6″	0.007″	GE97181090	44.77	35.82
1/8″	0.1″	2″	0.7″	0.007″	GE97181095	44.77	35.82
1/8″	0.11″	2″	0.3″	0.007″	GE97181100	44.77	35.82
1/8″	0.11″	2″	0.4″	0.007″	GE97181105	44.77	35.82
1/8″	0.11″	2″	1/2″	0.007″	GE97181110	44.77	35.82
1/8″	0.11″	2″	0.6″	0.007″	GE97181115	44.77	35.82
1/8″	0.11″	2″	0.7″	0.007″	GE97181120	44.77	35.82
1/8″	0.12″	2″	0.4″	0.007″	GE97181125	44.77	35.82
1/8″	0.12″	2″	1/2″	0.007″	GE97181130	44.77	35.82
1/8″	0.12″	2″	0.6″	0.007″	GE97181135	44.77	35.82
1/8″	0.12″	2″	0.7″	0.007″	GE97181140	44.77	40.22
1/8″	0.12″	2″	0.8″	0.007″	GE97181145	44.77	35.82
3/16″	0.14″	2-1/2″	0.4″	0.007″	GE97181150	47.91	38.33
3/16″	0.14″	2-1/2″	1/2″	0.007″	GE97181155	47.91	38.33
3/16″	0.14″	2-1/2″	0.6″	0.007″	GE97181160	47.91	38.33
3/16″	0.14″	2-1/2″	0.7″	0.007″	GE97181165	47.91	38.33
3/16″	0.14″	2-1/2″	0.8″	0.007″	GE97181170	47.91	38.33
3/16″	0.14″	2-1/2″	0.9″	0.007″	GE97181175	47.91	38.33
3/16″	0.14″	2-1/2″	1″	0.007″	GE97181180	47.91	38.33
3/16″	0.14″	2-1/2″	1-1/4″	0.007″	GE97181185	47.91	38.33
3/16″	0.16″	2-1/2″	1/2″	0.007″	GE97181190	47.91	38.33
3/16″	0.16″	2-1/2″	0.6″	0.007″	GE97181195	47.91	38.33
3/16″	0.16″	2-1/2″	0.8″	0.007″	GE97182200	47.91	38.33
3/16″	0.16″	2-1/2″	1″	0.007″	GE97181205	47.91	38.33

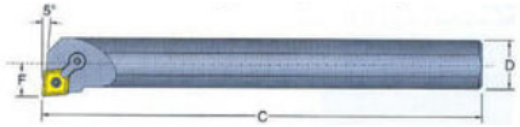
Connection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Overall Length (OAL)	Overhang Minimum (OHN)	Corner Radius (RE)	Order No.	Regular Price	SALE
3/16″	0.16″	2-1/2″	1-1/4″	0.007″	GE97181210	47.91	38.33
3/16″	0.18″	2-1/2″	0.4″	0.007″	GE97181212	47.91	38.33
3/16″	0.18″	2-1/2″	1/2″	0.007″	GE97181215	47.91	38.33
3/16″	0.18″	2-1/2″	0.6″	0.007″	GE97181220	47.91	38.33
3/16″	0.18″	2-1/2″	0.8″	0.007″	GE97181225	47.91	38.33
3/16″	0.18″	2-1/2″	1″	0.007″	GE97181230	47.91	38.33
3/16″	0.18″	2-1/2″	1-1/4″	0.007″	GE97181235	47.91	38.33
3/16″	0.18″	2-1/2″	1-1/2″	0.007″	GE97181240	47.91	38.33
1/4″	0.2″	2-1/2″	0.4″	0.007″	GE97181242	51.87	41.50
1/4″	0.2″	2-1/2″	1/2″	0.007″	GE97181245	51.87	41.50
1/4″	0.2″	2-1/2″	0.8″	0.007″	GE97181250	51.87	41.50
1/4″	0.2″	2-1/2″	1″	0.007″	GE97181255	51.87	41.50
1/4″	0.2″	2-1/2″	1-1/4″	0.007″	GE97181260	51.87	41.50
1/4″	0.2″	2-1/2″	1-1/2″	0.007″	GE97181265	51.87	41.50
1/4″	0.2″	2-1/2″	1-3/4″	0.007″	GE97181270	51.87	41.50
1/4″	0.24″	2-1/2″	1/2″	0.007″	GE97181275	51.87	41.50
1/4″	0.24″	2-1/2″	0.8″	0.007″	GE97181280	51.87	41.50
1/4″	0.24″	2-1/2″	1″	0.007″	GE97181285	51.87	41.50
1/4″	0.24″	2-1/2″	1-1/4″	0.007″	GE97181290	51.87	41.50
1/4″	0.24″	2-1/2″	1-1/2″	0.007″	GE97181295	51.87	41.50
5/16″	0.29″	2-1/2″	3/4″	0.007″	GE97181300	70.85	56.68
5/16″	0.29″	2-1/2″	1″	0.007″	GE97181305	70.85	56.68
5/16″	0.29″	2-1/2″	1-1/4″	0.007″	GE97181310	70.85	56.68
5/16″	0.29″	2-1/2″	1-1/2″	0.007″	GE97181315	70.85	56.68
5/16″	0.29″	2-1/2″	1-3/4″	0.007″	GE97181320	70.85	56.68
5/16″	0.31″	2-1/2″	1/2″	0.007″	GE97181322	70.85	56.68
5/16″	0.31″	2-1/2″	3/4″	0.007″	GE97181325	70.85	56.68
5/16″	0.31″	2-1/2″	1″	0.007″	GE97181330	70.85	56.68
5/16″	0.31″	2-1/2″	1-1/4″	0.007″	GE97181335	70.85	56.68
5/16″	0.31″	2-1/2″	1-1/2″	0.007″	GE97181340	70.85	56.68
5/16″	0.31″	2-1/2″	1-3/4″	0.007″	GE97181345	70.85	56.68
3/8″	0.36″	2-1/2″	1/2″	0.015″	GE97181350	97.37	77.90
3/8″	0.36″	2-1/2″	3/4″	0.015″	GE97181355	97.37	77.90
3/8″	0.36″	2-1/2″	1″	0.015″	GE97181360	97.37	77.90
3/8″	0.36″	2-1/2″	1-1/4″	0.015″	GE97181365	97.37	77.90
3/8″	0.36″	2-1/2″	1-1/2″	0.015″	GE97181370	97.37	77.90
1/2″	0.49″	3″	3/4″	0.015″	GE97181375	138.75	111.00
1/2″	0.49″	3″	1″	0.015″	GE97181380	138.75	111.00
1/2″	0.49″	3″	1-1/4″	0.015″	GE97181385	138.75	111.00
1/2″	0.49″	3″	1-1/2″	0.015″	GE97181390	138.75	111.00

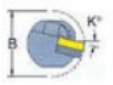
30126

DORIAN TOOL S-MCLN R/L Boring Bars

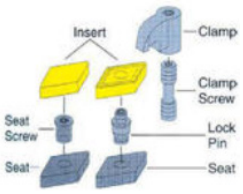
Style LNegative 5° Side & End Cutting Edge Angle for Negative 80° Diamond CNM_ Inserts

Right hand shownLeft hand opposite









				Left Hand			Right Hand		
Reduced Body Diameter Length (LDRED)	Functional Length (LF)	Connection Diameter Machine Side (DCONMS)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1″	10″	3/4″	CNM_43_	**FL4555007**	374.65	**274.59**	**FL4555006**	374.65	**274.59**
1.28″	12″	1″	CNM_43_	**FL4543370**	470.50	**344.82**	**FL4543360**	470.50	**344.82**
1.53″	14″	1-1/4″	CNM_43_	**FL4543390**	502.45	**368.23**	**FL4543380**	502.45	**368.23**
1.78″	14″	1-1/2″	CNM_43_	**FL4543410**	551.81	**404.42**	-	-	-
2.03″	14″	1-3/8″	CNM_43_	**FL4543430**	609.92	**502.88**	-	-	-
2.374″	14″	1-1/2″	CNM_54_	**FL4543450**	551.81	**404.42**	**FL4543440**	551.81	**404.42**
2.562″	16″	2″	CNM_43_	**FL4555025**	649.52	**476.03**	**FL4555024**	649.52	**476.03**
2.562″	16″	2″	CNM_54_	**FL4543470**	649.52	**476.03**	**FL4543460**	649.52	**476.03**
2.562″	16″	2″	CNM_64_	**FL4543530**	649.52	**476.03**	**FL4543520**	649.52	**476.03**
2.812″	16″	2-1/4″	CNM_64_	-	-	-	**FL4543540**	766.74	**561.94**
3.062″	16″	2-1/2″	CNM_54_	**FL4543490**	849.13	**700.12**	**FL4543480**	849.13	**622.33**
3.062″	16″	2-1/2″	CNM_64_	**FL4543570**	849.13	**622.33**	**FL4543560**	849.13	**622.33**
-	14″	1-3/8″	CNM_43_	-	-	-	**FL4555022**	609.92	**447.01**
-	14″	1-1/2″	CNM_43_	-	-	-	**FL4543400**	551.81	**404.42**

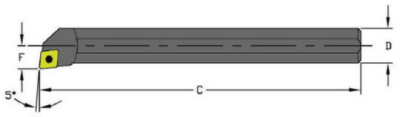
See pages B134-B138 for spare parts

8727

ULTRA-DEX Positive 80° Diamond -5° Lead Boring Bars No Coolant

Steel Bars ▪ 4:1 Ratio

- Right hand shown



					Right Hand			Left Hand		
Connection Diameter Machine Side (DCONMS)	Functional Length (LF)	Overall Length (OAL)	Reduced Body Diameter Length (LDRED)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.187″	3-1/2″	-	-	CDHB 1.20.60	**FG551300**	111.09	**88.87**	**FG551299**	111.09	**88.87**
0.218″	3-1/2″	-	-	CDGW 1.510	**FG551304**	111.09	**88.87**	**FG551302**	111.09	**88.87**
3/8″	5″	-	-	CCMT 21.51	**FG551330**	123.58	**98.86**	**FG551328**	123.58	**98.86**
3/8″	5″	-	-	CPMT 21.51	**FG551334**	123.58	**98.86**	**FG551332**	123.58	**98.86**
1/2″	6″	-	-	CCMT 21.51	**FG551359**	138.27	**110.62**	**FG551356**	138.27	**110.62**
1/2″	6″	-	-	CPMT 21.51	**FG551365**	138.27	**110.62**	**FG551362**	138.27	**110.62**
1/2″	6″	-	-	CCMT 32.51	**FG551361**	138.27	**110.62**	**FG551358**	138.27	**110.62**
1/2″	6″	-	-	CPMT 32.51	**FG551367**	138.27	**110.62**	**FG551364**	138.27	**110.62**
5/8″	7″	-	-	CCMT 32.51	**FG551393**	171.68	**137.34**	**FG551391**	171.68	**137.34**
5/8″	7″	-	-	CPMT 32.51	**FG551397**	171.68	**137.34**	**FG551395**	171.68	**137.34**
3/4″	7″	-	-	CCMT 32.51	**FG551418**	196.85	**157.48**	**FG551417**	196.85	**157.48**
3/4″	7″	-	-	CPMT 32.51	**FG551420**	196.85	**157.48**	**FG551419**	196.85	**157.48**
3/4″	10″	-	-	CCMT 32.51	**FG551445**	211.53	**169.22**	-	-	-
1″	8″	-	-	CCMT 32.51	**FG551449**	272.13	**217.70**	**FG551448**	272.13	**217.70**
1-1/4″	14″	-	-	CCMT 432	**FG551503**	422.89	**338.31**	**FG551502**	422.89	**338.31**

9573

20 Pc. Solid Carbide Burr Mix - 1/8″ Shank

1/8″ Diameter Heads



Order No.	Regular Price	SALE
FP800125	179.44	**131.51**

9617

25 Pc. Solid Carbide Burr Mix

1/4″ Shank

- 1/8″ thru 3/8″ Diameter heads designed to shape and trim metals and composite materials
- Can be used with any die grinder or high speed drill



Order No.	Regular Price	SALE
FP800250	607.33	**445.12**

9619

WALTON Tap Extensions



Style "B" for Both Machine & Hand Tapping

- Provides easy access to those hard-to-reach tapping locations
- Tap, supported by close-fitting long socket of extension, is held firmly in position by two socket set screws which bear on the square of tap
- All extensions are 8" overall length

Tap Size	Body Diameter (BD)	Connection Diameter Machine Side (DCONMS)	Square Size	Order No.	Regular Price	SALE
#0-#6	5/16"	0.142"	0.191"	EX5440006	76.93	61.43
#8	3/8"	0.169"	0.191"	EX5440008	83.16	66.41
#10	3/8"	0.195"	0.191"	EX5440010	88.13	70.37
#12	7/16"	0.22"	0.164"	EX5440012	90.66	72.40
1/4"	7/16"	0.256"	0.191"	EX5440025	95.09	75.93
5/16"	1/2"	0.319"	0.237"	EX5440031	100.24	80.04
3/8"	5/8"	0.382"	0.285"	EX5440037	109.90	87.76
7/16"	5/8"	0.324"	0.241"	EX5440043	114.51	91.44
1/2"	5/8"	0.368"	0.274"	EX5440050	119.83	95.69
9/16"	11/16"	0.43"	0.32"	EX5440056	137.13	109.50
5/8"	3/4"	0.481"	0.359"	EX5440062	144.03	115.01
3/4"	7/8"	0.591"	0.441"	EX5440075	175.73	140.33
7/8"	1-1/16"	0.698"	0.522"	EX5440087	210.31	167.94
1"	1-1/16"	0.801"	0.599"	EX5440100	243.94	194.79

10656

INTERNAL TOOL Quick Change Carbide Threading Tools



- Solid micrograin carbide
- All tools are locked into our special holder maintaining an exact radial and axial position for quick tool changes
- Less cost you replace only the tips when worn
- Minimum Bore +.000-.005

Connection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Overhang Minimum (OHN)	Cutting Length	Order No.	Regular Price	SALE
3/16"	0.06"	0.2"	0.025"	GE97423000	38.58	30.86
3/16"	0.06"	0.3"	0.025"	GE97423005	38.58	30.86
3/16"	0.08"	0.2"	0.025"	GE97423010	38.58	30.86
3/16"	0.08"	0.3"	0.025"	GE97423015	38.58	30.86
3/16"	0.08"	0.4"	0.025"	GE97423020	38.58	30.86
3/16"	0.08"	1/2"	0.025"	GE97423025	38.58	30.86
3/16"	0.1"	0.2"	0.03"	GE97423030	38.58	30.86
3/16"	0.1"	0.3"	0.03"	GE97423035	38.58	30.86
3/16"	0.1"	0.4"	0.03"	GE97423040	38.58	30.86
3/16"	0.1"	1/2"	0.03"	GE97423045	38.58	30.86
3/16"	0.12"	0.2"	0.035"	GE97423050	38.58	30.86
3/16"	0.12"	0.3"	0.035"	GE97423055	38.58	30.86
3/16"	0.12"	0.4"	0.035"	GE97423060	38.58	30.86
3/16"	0.12"	1/2"	0.035"	GE97423065	38.58	30.86
3/16"	0.14"	0.2"	0.04"	GE97423070	38.58	30.86
3/16"	0.14"	0.3"	0.04"	GE97423075	38.58	30.86
3/16"	0.14"	0.4"	0.04"	GE97423080	38.58	30.86
3/16"	0.14"	1/2"	0.04"	GE97423085	38.58	30.86
3/16"	0.14"	0.6"	0.04"	GE97423090	38.58	30.86
3/16"	0.14"	0.7"	0.04"	GE97423095	38.58	30.86
3/16"	0.16"	0.2"	0.045"	GE97423100	38.58	30.86
3/16"	0.16"	0.3"	0.045"	GE97423105	38.58	30.86
3/16"	0.16"	0.4"	0.045"	GE97423110	38.58	30.86
3/16"	0.16"	1/2"	0.045"	GE97423115	38.58	30.86
3/16"	0.16"	0.6"	0.045"	GE97423120	38.58	30.86
3/16"	0.16"	0.7"	0.045"	GE97423125	38.58	30.86
3/16"	0.18"	0.2"	0.045"	GE97423130	38.58	30.86
3/16"	0.18"	0.3"	0.045"	GE97423135	38.58	30.86
3/16"	0.18"	0.4"	0.045"	GE97423140	38.58	30.86
3/16"	0.18"	1/2"	0.045"	GE97423145	38.58	30.86
3/16"	0.18"	0.6"	0.045"	GE97423150	38.58	30.86
3/16"	0.18"	0.7"	0.045"	GE97423155	38.58	30.86

30131

WHITNEY TOOL Tap Extensions



- Internal square drive for positive tap drive
- Compression cap for easy tightening, no wrench required
- The slim profile lets you fit into places not accessible to conventional tap extensions

Tap Size	Connection Diameter Machine Side (DCONMS)	Body Diameter (BD)	Square Size	Hole Depth	Order No.	Regular Price	SALE
#0-#6	0.141"	1/4"	0.152"	7/8"	EX6596089	108.78	79.73
#8	0.168"	5/16"	0.152"	7/8"	EX6596090	108.78	79.73
#10	0.194"	3/8"	0.152"	1"	EX6596091	108.78	79.73
#12	0.22"	3/8"	0.152"	1"	EX6596092	108.78	79.73
1/4"	0.255"	7/16"	0.191"	1"	EX6596093	108.78	79.73
5/16"	0.318"	1/2"	0.238"	1-1/16"	EX6596094	133.24	97.65
3/8"	0.381"	9/16"	0.286"	1-1/8"	EX6596095	133.24	97.65
7/16"	0.323"	1/2"	0.242"	1-1/16"	EX6596096	133.24	97.65
1/2"	0.367"	9/16"	0.275"	1-1/8"	EX6596097	133.24	97.65
1/16"|1/8"	0.312"	1/2"	0.234"	1"	EX6596098	133.24	97.65
M2 to M2.6	0.11"	1/4"	0.193"	7/8"	EX6596201	230.82	169.17
M3	0.137"	5/16"	0.193"	7/8"	EX6596202	230.82	169.17
M3.5	0.157"	3/8"	0.193"	7/8"	EX6596203	230.82	169.17
M4	0.177"	3/8"	0.193"	7/8"	EX6596204	230.82	169.17
M4.5 to M6	0.236"	7/16"	0.216"	1"	EX6596205	230.82	169.17
M7	0.275"	1/2"	0.216"	1"	EX6596206	230.82	169.17
M8	0.315"	1/2"	0.244"	1-1/8"	EX6596207	230.82	169.17
M9	0.354"	5/8"	0.275"	1-3/16"	EX6596208	230.82	169.17
M10	0.393"	5/8"	0.315"	1-1/4"	EX6596209	230.82	169.17
M12	0.472"	3/4"	0.354"	1-3/8"	EX6596211	230.82	169.17
M14	0.433"	3/4"	0.354"	1-3/8"	EX6596210	230.82	169.17
9/16"	-	3/4"	0.32"	-	EX6596109	199.33	146.09
1/8"	0.437"	3/4"	0.328"	1"	EX6596110	199.33	146.09
5/8"	0.48"	3/4"	0.36"	1-1/4"	EX6596111	199.33	146.09
11/16"	0.542"	7/8"	0.406"	1-1/4"	EX6596112	227.79	166.95
1/4"	0.562"	7/8"	0.42"	1"	EX6596113	248.92	182.43
3/4"	0.59"	7/8"	0.44"	1-3/8"	EX6596114	227.79	166.95
7/8"	0.697"	1"	0.52"	1-3/8"	EX6596115	227.79	166.95
3/8"	0.7"	1"	0.53"	1-3/16"	EX6596116	227.79	166.95
1/2"	0.687"	1"	0.515"	1-1/4"	EX6596117	227.79	166.95
1"	0.8"	1"	0.6"	1-1/2"	EX6596118	227.79	166.95
#0-#6	0.141"	1/4"	0.152"	7/8"	EX6596099	114.39	83.84
9/16"	0.168"	3/4"	0.32"	1-1/4"	EX6596100	114.39	83.84
#10	0.194"	3/8"	0.152"	1"	EX6596101	114.39	83.84
#12	0.22"	3/8"	0.152"	1"	EX6596102	114.39	83.84
1/4"	0.255"	7/16"	0.191"	1"	EX6596103	114.39	83.84
5/16"	0.318"	1/2"	0.238"	1-1/16"	EX6596104	140.67	103.09
3/8"	0.381"	9/16"	0.286"	1-1/8"	EX6596105	140.67	103.09
7/16"	0.323"	1/2"	0.242"	1-1/16"	EX6596106	140.67	103.09
1/2"	0.367"	9/16"	0.275"	1-1/8"	EX6596107	140.67	103.09
1/16"|1/8"	0.312"	1/2"	0.234"	1"	EX6596108	140.67	103.09
M2 to M2.6	0.11"	1/4"	0.193"	7/8"	EX6596212	307.22	225.16
M3	0.137"	5/16"	0.193"	7/8"	EX6596213	307.22	225.16
M3.5	0.157"	3/8"	0.193"	7/8"	EX6596214	307.22	225.16
M4	0.177"	3/8"	0.193"	7/8"	EX6596215	307.22	225.16
M4.5 to M6	0.236"	7/16"	0.216"	1"	EX6596216	307.22	225.16
M7	0.275"	1/2"	0.216"	1"	EX6596217	307.22	225.16
M8	0.315"	1/2"	0.244"	1-1/8"	EX6596218	307.22	225.16
M9	0.354"	5/8"	0.275"	1-3/16"	EX6596219	307.22	225.16
M10	0.393"	5/8"	0.315"	1-1/4"	EX6596220	307.22	225.16
M12	0.472"	3/4"	0.354"	1-3/8"	EX6596222	307.22	225.16
M14	0.433"	3/4"	0.354"	1-3/8"	EX6596221	307.22	225.16

10670

Nu-Thread Thread Restoring Files



- Overlap a few good threads & use just like a file to restore damaged areas
- 7/16" Square x 8-1/2" overall length

Bolt			
FamilyName	Order No.	Regular Price	SALE
JAW8M-I 7/6"-.8, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5 & 3.0mm Nu-Thread Restore Files	FB808M	24.81	19.55
JAW1-I 7/16"-11, 12, 13, 14, 16, 18, 20 & 24 Nu-Thread Restoring Files	FB801	24.81	19.85
JAW2-I 7/16"-9, 10, 12, 16, 20, 27, 28 & 32 Nu-Thread Restoring Files	FB802	24.81	19.85

External Pipe Thread			
FamilyName	Order No.	Regular Price	SALE
JAW7-I 8, 10, 11-1/2, 14, 16, 18, 24 & 27 Nu-Thread Restoring Files	FB807	24.81	19.85
JAW5-I 8, 10, 11-1/2 & 14 Nu-Thread Restoring Files	FB805	54.15	42.71

† 1" x 1/2" x 8-3/8"

9845

MICRO 100® Internal Threading Tools



- Shank diameter: -.0001″ (-0.005mm) to -.0002″ (-0.01mm)
- Minimum hole diameter: +.000-.005″
- Depth +.050-.000″
- Overall length ±1/64″
- Radius ±.001″

Right Hand

Functional Width (WF)	Overall Length (OAL)	Order No.	Regular Price	SALE
0.2″	1-1/2″	GE45IT050200	74.03	59.22
1/4″	1-1/2″	GE45IT080250	58.79	47.03
0.35″	1-1/2″	GE45IT080350	58.79	47.03
1/2″	1-1/2″	GE45IT080500	58.79	47.03
1/4″	1-1/2″	GE45IT100250	58.79	47.03
0.35″	1-1/2″	GE45IT100350	58.79	47.03
0.6″	1-1/2″	GE45IT100600	58.79	47.03
0.03″	2″	GE45IT120250	62.68	50.14
0.03″	2″	GE45IT120400	62.68	50.14
0.03″	2″	GE45IT120500	62.68	50.14
0.6″	2″	GE45IT120600	62.68	50.14
3/4″	2″	GE45IT120750	62.68	50.14
0.035″	2″	GE45IT140250	62.68	50.14
0.035″	2″	GE45IT140400	62.68	50.14
0.035″	2″	GE45IT140500	62.68	50.14
0.035″	2″	GE45IT140750	62.68	50.14
1″	2″	GE45IT1601000	62.68	50.14
1/2″	2″	GE45IT160500	62.68	50.14
3/4″	2″	GE45IT160750	62.68	50.14
0.04″	2-1/2″	GE45IT1801000	66.74	53.39
0.04″	2-1/2″	GE45IT180350	66.74	53.39
0.04″	2-1/2″	GE45IT180500	66.74	53.39
0.04″	2-1/2″	GE45IT180750	66.74	53.39
0.045″	2-1/2″	GE45IT2001000	66.74	53.39
0.045″	2-1/2″	GE45IT200400	66.74	53.39
0.045″	2-1/2″	GE45IT200600	66.74	53.39
0.045″	2-1/2″	GE45IT200750	66.74	53.39
0.055″	2-1/2″	GE45IT2301000	83.68	66.94
0.055″	2-1/2″	GE45IT2301500	83.68	66.94
0.055″	2-1/2″	GE45IT230400	83.68	66.94
0.055″	2-1/2″	GE45IT230600	83.68	66.94
0.055″	2-1/2″	GE45IT230750	83.68	66.94
0.07″	2-1/2″	GE45IT2901000	83.68	66.94
0.07″	2-1/2″	GE45IT2901250	83.68	66.94
0.07″	2-1/2″	GE45IT2901750	83.68	66.94
0.07″	2-1/2″	GE45IT290500	83.68	66.94
0.07″	2-1/2″	GE45IT290750	83.68	66.94
0.075″	2-1/2″	GE45IT3201000	108.92	87.14
0.075″	2-1/2″	GE45IT3201250	108.92	87.14
0.075″	2-1/2″	GE45IT3201800	108.92	87.14
0.075″	2-1/2″	GE45IT320500	108.92	87.14
0.075″	2-1/2″	GE45IT320750	108.92	87.14
0.085″	2-1/2″	GE45IT3601000	108.92	87.14
0.085″	2-1/2″	GE45IT3601250	108.92	87.14
0.085″	2-1/2″	GE45IT3601800	108.92	87.14
0.085″	2-1/2″	GE45IT360500	108.92	87.14
0.085″	2-1/2″	GE45IT360750	108.92	87.14
0.12″	2-1/2″	GE45IT4901500	152.80	122.24
0.12″	2-1/2″	GE45IT4902000	152.80	122.24
0.12″	2-1/2″	GE45IT490750	152.80	122.24

Left Hand

Functional Width (WF)	Overall Length (OAL)	Order No.	Regular Price	SALE
0.03″	2″	GE45ITL120250	62.68	50.14
0.03″	2″	GE45ITL120400	62.68	50.14
0.03″	2″	GE45ITL120500	62.68	50.14
0.035″	2″	GE45ITL140250	62.68	50.14
0.035″	2″	GE45ITL140400	62.68	50.14
0.035″	2″	GE45ITL140500	62.68	50.14
0.035″	2″	GE45ITL140750	62.68	50.14
0.04″	2-1/2″	GE45ITL180350	66.74	53.39
0.04″	2-1/2″	GE45ITL180500	66.74	53.39
0.045″	2-1/2″	GE45ITL200400	66.74	53.39
0.045″	2-1/2″	GE45ITL200600	66.74	53.39
0.055″	2-1/2″	GE45ITL2301000	83.68	66.94

Left Hand

Functional Width (WF)	Overall Length (OAL)	Order No.	Regular Price	SALE
0.055″	2-1/2″	GE45ITL230400	83.68	66.94
0.055″	2-1/2″	GE45ITL230600	83.68	66.94
0.055″	2-1/2″	GE45ITL230750	83.68	66.94
0.07″	2-1/2″	GE45ITL2901000	83.68	66.94
0.07″	2-1/2″	GE45ITL290500	83.68	66.94
0.07″	2-1/2″	GE45ITL290750	83.68	66.94
0.075″	2-1/2″	GE45ITL3201000	108.92	87.14
0.075″	2-1/2″	GE45ITL3201250	108.92	87.14
0.075″	2-1/2″	GE45ITL320500	108.92	87.14
0.075″	2-1/2″	GE45ITL320750	108.92	87.14
0.085″	2-1/2″	GE45ITL3601000	108.92	87.14
0.085″	2-1/2″	GE45ITL3601250	108.92	87.14
0.085″	2-1/2″	GE45ITL3601800	108.92	87.14
0.085″	2-1/2″	GE45ITL360500	108.92	87.14
0.085″	2-1/2″	GE45ITL360750	108.92	87.14
0.12″	2-1/2″	GE45ITL4901500	152.80	122.24
0.12″	2-1/2″	GE45ITL490750	152.80	122.24

Functional Width (WF)	Overall Length (OAL)	Order No.	Price	SALE
-	1-1/2″	GE46QIT050200	72.34	57.87
-	1-1/2″	GE46QIT080250	72.34	57.87
-	1-1/2″	GE46QIT080350	72.34	57.87
-	1-1/2″	GE46QIT080500	72.34	57.87
-	1-1/2″	GE46QIT100250	72.34	57.87
-	1-1/2″	GE46QIT100350	72.34	57.87
-	2″	GE46QIT100600	72.34	57.87
-	1-1/2″	GE46QIT120250	72.34	57.87
-	1-1/2″	GE46QIT120400	72.34	57.87
-	1-1/2″	GE46QIT120500	72.34	57.87
-	1-1/2″	GE46QIT140250	72.34	57.87
-	1-1/2″	GE46QIT140400	72.34	57.87
-	1-1/2″	GE46QIT140500	72.34	57.87
-	2″	GE46QIT140750	72.34	57.87
-	2-1/2″	GE46QIT1801000	77.25	61.80
-	2″	GE46QIT180350	77.25	61.80
-	2″	GE46QIT180500	77.25	61.80
-	2″	GE46QIT180750	77.25	61.80
-	2-1/2″	GE46QIT2001000	77.25	61.80
-	2″	GE46QIT200400	77.25	61.80
-	2″	GE46QIT200600	77.25	61.80
-	2″	GE46QIT200750	77.25	61.80
-	2-1/2″	GE46QIT2301000	96.73	77.38
-	2-1/2″	GE46QIT2301500	109.44	87.55
-	2″	GE46QIT230400	96.73	77.38
-	2″	GE46QIT230600	96.73	77.38
-	2″	GE46QIT230750	96.73	77.38
-	2″	GE46QIT2901000	96.73	77.38
-	2-1/2″	GE46QIT2901250	96.73	77.38
-	2-1/2″	GE46QIT2901750	109.44	87.55
-	2″	GE46QIT290500	96.73	77.38
-	2″	GE46QIT290750	96.73	77.38
-	2-1/2″	GE46QIT3201000	126.03	100.82
-	2-1/2″	GE46QIT3201250	126.03	100.82
-	3″	GE46QIT3201800	138.74	110.99
-	2″	GE46QIT320500	126.03	100.82
-	2″	GE46QIT320750	126.03	100.82
-	2-1/2″	GE46QIT3601000	126.03	100.82
-	2-1/2″	GE46QIT3601250	126.03	100.82
-	3″	GE46QIT3601800	138.74	110.99
-	2″	GE46QIT360500	126.03	100.82
-	2″	GE46QIT360750	126.03	100.82
-	3″	GE46QIT4901500	176.68	141.34
-	3-1/2″	GE46QIT4902000	192.78	154.22
-	2-1/2″	GE46QIT490750	176.68	141.34

9149

INTERNAL TOOL™ Carbide Internal Threading Tools



- Solid micrograin carbide
- For threading all types of material
- No tip radius
- All shanks have lockdown flat for faster setups
- Minimum Bore +.000-.005

Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Minimum Bore Diameter (DMIN)	Overhang Minimum (OHN)	Cutting Length	Order No.	Regular Price	SALE
1/8″	2″	0.06″	0.15″	0.02″	GE97301340	40.82	32.66
1/8″	2″	0.06″	0.2″	0.02″	GE97301345	40.82	32.66
1/8″	2″	0.06″	0.3″	0.02″	GE97301350	40.82	32.66
1/8″	2″	0.08″	0.3″	0.02″	GE97301351	40.82	32.66
1/8″	2″	0.08″	0.4″	0.02″	GE97301352	40.82	32.66
1/8″	2″	0.08″	1/2″	0.02″	GE97301353	40.82	32.66
1/8″	2″	0.09″	0.2″	0.025″	GE97301355	40.82	32.66
1/8″	2″	0.09″	0.3″	0.025″	GE97301360	40.82	32.66
1/8″	2″	0.09″	0.4″	0.025″	GE97301365	40.82	32.66
1/8″	2″	0.12″	0.3″	0.03″	GE97301370	45.12	36.10
1/8″	2″	0.12″	0.4″	0.03″	GE97301375	45.12	36.10
1/8″	2″	0.12″	1/2″	0.03″	GE97301380	45.12	36.10
3/16″	2-1/2″	0.14″	0.3″	0.035″	GE97301385	45.12	36.10
3/16″	2-1/2″	0.14″	0.4″	0.035″	GE97301390	45.12	36.10
3/16″	2-1/2″	0.14″	1/2″	0.035″	GE97301395	45.12	36.10
3/16″	2-1/2″	0.16″	0.4″	0.04″	GE97301396	45.12	36.10
3/16″	2-1/2″	0.16″	1/2″	0.04″	GE97301397	45.12	36.10
3/16″	2-1/2″	0.16″	3/4″	0.04″	GE97301398	45.12	36.10
3/16″	2-1/2″	0.16″	1″	0.04″	GE97301399	45.12	36.10
1/4″	2-1/2″	0.18″	0.35″	0.04″	GE97301400	48.45	38.76
1/4″	2-1/2″	0.18″	1/2″	0.04″	GE97301405	48.45	38.76
1/4″	2-1/2″	0.18″	3/4″	0.04″	GE97301410	48.45	38.76
1/4″	2-1/2″	0.18″	1″	0.04″	GE97301415	48.45	38.76
1/4″	2-1/2″	0.2″	0.4″	0.045″	GE97301420	48.45	38.76
1/4″	2-1/2″	0.2″	0.6″	0.045″	GE97301425	48.45	38.76
1/4″	2-1/2″	0.2″	3/4″	0.045″	GE97301430	48.45	38.76
1/4″	2-1/2″	0.2″	1″	0.045″	GE97301435	48.45	38.76
5/16″	2-1/2″	0.23″	0.4″	0.055″	GE97301440	60.79	48.63
5/16″	2-1/2″	0.23″	0.6″	0.055″	GE97301445	60.79	48.63
5/16″	2-1/2″	0.23″	3/4″	0.055″	GE97301450	60.79	48.63
5/16″	2-1/2″	0.23″	1″	0.055″	GE97301455	60.79	48.63
5/16″	2-1/2″	0.23″	1-1/2″	0.055″	GE97301460	60.79	48.63
5/16″	2-1/2″	0.29″	1/2″	0.07″	GE97301465	60.79	48.63
5/16″	2-1/2″	0.29″	3/4″	0.07″	GE97301470	60.79	48.63
5/16″	2-1/2″	0.29″	1″	0.07″	GE97301475	60.79	48.63
5/16″	2-1/2″	0.29″	1-1/4″	0.07″	GE97301480	60.79	48.63
5/16″	2-1/2″	0.29″	1-1/2″	0.07″	GE97301482	60.79	48.63
5/16″	2-1/2″	0.29″	1-3/4″	0.07″	GE97301485	60.79	48.63
3/8″	2-1/2″	0.32″	1/2″	0.075″	GE97301490	79.21	63.37
3/8″	2-1/2″	0.32″	3/4″	0.075″	GE97301495	79.21	63.37
3/8″	2-1/2″	0.32″	1″	0.075″	GE97301500	79.21	63.37
3/8″	2-1/2″	0.32″	1-1/4″	0.075″	GE97301505	79.21	63.37
3/8″	2-1/2″	0.32″	1-1/2″	0.075″	GE97301507	79.21	63.37
3/8″	2-1/2″	0.32″	1.8″	0.075″	GE97301510	79.21	63.37
3/8″	2-1/2″	0.36″	1/2″	0.085″	GE97301515	79.21	63.37
3/8″	2-1/2″	0.36″	3/4″	0.085″	GE97301520	79.21	63.37
3/8″	2-1/2″	0.36″	1″	0.085″	GE97301525	79.21	63.37
3/8″	2-1/2″	0.36″	1-1/4″	0.085″	GE97301530	79.21	63.37
3/8″	2-1/2″	0.36″	1-1/2″	0.085″	GE97301532	79.21	63.37
3/8″	2-1/2″	0.36″	1.8″	0.085″	GE97301535	79.21	63.37
1/2″	3″	0.49″	3/4″	0.12″	GE97301540	109.87	87.90
1/2″	3″	0.49″	1″	0.12″	GE97301542	109.87	87.90
1/2″	3″	0.49″	1-1/2″	0.12″	GE97301545	109.87	87.90
1/2″	3″	0.49″	2″	0.12″	GE97301550	109.87	87.90

30129

INTERNAL TOOL™ 3 Flute Carbide Corner Rounding End Mills Double End



- Solid micrograin carbide
- For use in steel and tougher materials
- Double End
- Available uncoated or AlTiN

				Uncoated			AlTiN		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Corner Radius (RE)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8″	1/8″	2″	0.01″	GE97681200	40.42	32.34	GE97681200C	46.05	36.84
1/8″	1/8″	2″	0.0156″	GE97681205	40.42	32.34	GE97681205C	46.05	36.84
1/8″	1/8″	2″	0.02″	GE97681210	40.42	32.34	GE97681210C	46.05	36.84
1/8″	1/8″	2″	0.025″	GE97681215	40.42	32.34	GE97681215C	46.05	36.84
1/8″	1/8″	2″	0.0312″	GE97681220	40.42	32.34	GE97681220C	46.05	36.84
0.187″	0.187″	2-1/2″	0.0156″	GE97681221	43.69	34.95	GE97681221C	53.76	43.01
0.187″	0.187″	2-1/2″	0.0312″	GE97681222	43.69	34.95	GE97681222C	53.76	43.01
0.187″	0.187″	2-1/2″	0.0625″	GE97681223	43.69	34.95	GE97681223C	53.76	43.01
1/4″	1/4″	2-1/2″	0.01″	GE97681225	56.17	44.94	GE97681225C	71.22	56.98
1/4″	1/4″	2-1/2″	0.0156″	GE97681230	56.17	44.94	GE97681230C	71.22	56.98
1/4″	1/4″	2-1/2″	0.02″	GE97681235	56.17	44.94	GE97681235C	71.22	56.98
1/4″	1/4″	2-1/2″	0.025″	GE97681240	56.17	44.94	GE97681240C	71.22	56.98
1/4″	1/4″	2-1/2″	0.0312″	GE97681245	56.17	44.94	GE97681245C	71.22	56.98
1/4″	1/4″	2-1/2″	0.035″	GE97681250	56.17	44.94	GE97681250C	71.22	56.98
1/4″	1/4″	2-1/2″	0.0394″	GE97681255	56.17	44.94	GE97681255C	71.22	56.98
1/4″	1/4″	2-1/2″	0.0469″	GE97681260	56.17	44.94	GE97681260C	71.22	56.98
1/4″	1/4″	2-1/2″	0.05″	GE97681265	56.17	44.94	GE97681265C	71.22	56.98
1/4″	1/4″	2-1/2″	0.055″	GE97681270	56.17	44.94	GE97681270C	71.22	56.98
1/4″	1/4″	2-1/2″	0.0591″	GE97681275	56.17	44.94	GE97681275C	71.22	56.98
1/4″	1/4″	2-1/2″	0.0625″	GE97681280	56.17	44.94	GE97681280C	71.22	56.98
1/4″	1/4″	2-1/2″	0.07″	GE97681285	56.17	44.94	GE97681285C	71.22	56.98
1/4″	1/4″	2-1/2″	0.075″	GE97681290	56.17	44.94	GE97681290C	71.22	56.98
3/8″	3/8″	2-1/2″	0.0781″	GE97681295	93.65	74.92	GE97681295C	108.68	86.94
3/8″	3/8″	2-1/2″	0.0787″	GE97681297	93.65	74.92	GE97681297C	108.68	86.94
3/8″	3/8″	2-1/2″	0.0938″	GE97681300	93.65	74.92	GE97681300C	108.68	86.94
3/8″	3/8″	2-1/2″	0.0984″	GE97681302	93.65	74.92	GE97681302C	108.68	86.94
3/8″	3/8″	2-1/2″	0.1094″	GE97681305	93.65	74.92	GE97681305C	108.68	86.94
3/8″	3/8″	2-1/2″	0.1181″	GE97681307	93.65	74.92	GE97681307C	108.68	86.94
3/8″	3/8″	2-1/2″	1/8″	GE97681310	93.65	74.92	GE97681310C	108.68	86.94
1/2″	1/2″	3″	0.14″	GE97681312	146.34	117.07	GE97681312C	164.00	131.20
1/2″	1/2″	3″	0.1562″	GE97681315	146.34	117.07	GE97681315C	164.00	131.20
1/2″	1/2″	3″	0.1575″	GE97681317	146.34	117.07	GE97681317C	164.00	131.20
1/2″	1/2″	3″	0.1718″	GE97681320	146.34	117.07	GE97681320C	164.00	131.20
1/2″	1/2″	3″	3/16″	GE97681325	146.34	117.07	GE97681325C	164.00	131.20
5/8″	5/8″	3-1/2″	0.1969″	GE97681327	167.58	134.06	GE97681327C	210.59	168.47
5/8″	5/8″	3-1/2″	0.2031″	GE97681330	167.58	134.06	GE97681330C	210.59	168.47
5/8″	5/8″	3-1/2″	0.2188″	GE97681335	167.58	134.06	GE97681335C	210.59	168.47
5/8″	5/8″	3-1/2″	0.2344″	GE97681340	167.58	134.06	GE97681340C	210.59	168.47
5/8″	5/8″	3-1/2″	0.2362″	GE97681342	167.58	134.06	GE97681342C	210.59	168.47
5/8″	5/8″	3-1/2″	1/4″	GE97681345	167.58	134.06	GE97681345C	210.59	168.47
3/4″	3/4″	4″	0.2812″	GE97681350	223.41	178.73	GE97681350C	275.77	220.62
3/4″	3/4″	4″	0.2969″	GE97681352	223.41	178.73	GE97681352C	275.77	220.62
3/4″	3/4″	4″	0.3125″	GE97681355	223.41	178.73	GE97681355C	275.77	220.62
1″	1″	4″	0.3281″	GE97681360	269.53	215.62	GE97681360C	343.39	274.71
1″	1″	4″	0.3438″	GE97681365	269.53	215.62	GE97681365C	343.39	274.71
1″	1″	4″	3/8″	GE97681370	269.53	215.62	GE97681370C	343.39	274.71

30136

NANO MICRON CUT Solid Carbide 2-Flute Miniature Square End Single End Mills

- Micrograin - Center Cutting - 30° Helix Angle
- Stub & Regular Length
- AlTiN Coating for abrasive and hard-to-machine materials
- DLC Coating for graphite and some non-ferrous materials
- List No. 5914



					Uncoated			AlTiN			DLC		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Length Group	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.005"	1/8"	1-1/2"	0.008"	Stub	MT3145465	44.34	32.50	-	-	-	-	-	-
0.005"	1/8"	1-1/2"	0.015"	Regular	MT3145466	34.33	25.16	MT3196534	39.30	28.79	-	-	-
0.006"	1/8"	1-1/2"	0.009"	Stub	MT3145467	44.34	32.50	-	-	-	-	-	-
0.006"	1/8"	1-1/2"	0.018"	Regular	MT3145468	42.71	31.30	-	-	-	-	-	-
0.007"	1/8"	1-1/2"	0.011"	Stub	MT3145469	44.34	32.50	-	-	-	-	-	-
0.007"	1/8"	1-1/2"	0.021"	Regular	MT3145470	42.06	30.81	-	-	-	-	-	-
0.008"	1/8"	1-1/2"	0.012"	Stub	MT3145471	44.34	32.50	-	-	-	-	-	-
0.008"	1/8"	1-1/2"	0.024"	Regular	MT3145472	42.71	31.30	-	-	-	-	-	-
0.009"	1/8"	1-1/2"	0.014"	Stub	MT3145473	32.49	23.82	-	-	-	-	-	-
0.009"	1/8"	1-1/2"	0.027"	Regular	MT3145474	32.49	23.82	-	-	-	-	-	-
0.010"	1/8"	1-1/2"	0.015"	Stub	MT3145475	31.18	22.85	MT3196535	35.53	26.04	-	-	-
0.010"	1/8"	1-1/2"	0.030"	Regular	MT3145476	34.69	25.43	MT3196536	40.95	30.02	MT3196625	63.20	46.32
0.011"	1/8"	1-1/2"	0.017"	Stub	MT3145477	31.54	23.12	-	-	-	-	-	-
0.011"	1/8"	1-1/2"	0.033"	Regular	MT3145478	31.54	23.12	-	-	-	-	-	-
0.012"	1/8"	1-1/2"	0.018"	Stub	MT3145479	31.54	23.12	-	-	-	-	-	-
0.012"	1/8"	1-1/2"	0.036"	Regular	MT3145480	31.54	23.12	MT3196537	39.07	28.64	-	-	-
0.013"	1/8"	1-1/2"	0.020"	Stub	MT3145481	31.54	23.12	-	-	-	-	-	-
0.013"	1/8"	1-1/2"	0.039"	Regular	MT3145482	31.54	23.12	-	-	-	-	-	-
0.014"	1/8"	1-1/2"	0.021"	Stub	MT3145483	31.54	23.12	-	-	-	-	-	-
0.014"	1/8"	1-1/2"	0.042"	Regular	MT3145484	31.54	23.12	-	-	-	-	-	-
0.015"	1/8"	1-1/2"	0.023"	Stub	MT3145485	29.74	21.79	MT3196538	33.60	24.63	-	-	-
0.015"	1/8"	1-1/2"	0.045"	Regular	MT3145486	26.77	19.62	MT3196539	31.70	23.23	MT3196626	55.99	41.03
0.016"	1/8"	1-1/2"	0.024"	Stub	MT3145487	29.74	21.79	-	-	-	-	-	-
0.016"	1/8"	1-1/2"	0.048"	Regular	MT3145488	29.74	21.79	-	-	-	-	-	-
0.017"	1/8"	1-1/2"	0.026"	Stub	MT3145489	29.74	21.79	-	-	-	-	-	-
0.017"	1/8"	1-1/2"	0.051"	Regular	MT3145490	29.74	21.79	-	-	-	-	-	-
0.018"	1/8"	1-1/2"	0.027"	Stub	MT3145491	29.74	21.79	-	-	-	-	-	-
0.018"	1/8"	1-1/2"	0.054"	Regular	MT3145492	29.74	21.79	MT3196540	33.75	24.75	-	-	-
0.019"	1/8"	1-1/2"	0.029"	Stub	MT3145493	29.74	21.79	-	-	-	-	-	-
0.019"	1/8"	1-1/2"	0.057"	Regular	MT3145494	29.74	21.79	-	-	-	-	-	-
0.020"	1/8"	1-1/2"	0.030"	Stub	MT3145495	26.80	19.64	-	-	-	-	-	-
0.020"	1/8"	1-1/2"	0.060"	Regular	MT3145496	21.49	15.75	MT3196542	26.46	19.40	MT3196627	45.08	33.04
0.021"	1/8"	1-1/2"	0.032"	Stub	MT3145497	26.54	19.46	-	-	-	-	-	-
0.021"	1/8"	1-1/2"	0.063"	Regular	MT3145498	26.54	19.46	-	-	-	-	-	-
0.022"	1/8"	1-1/2"	0.033"	Stub	MT3145499	26.54	19.46	-	-	-	-	-	-
0.022"	1/8"	1-1/2"	0.066"	Regular	MT3145500	26.54	19.46	-	-	-	-	-	-
0.023"	1/8"	1-1/2"	0.035"	Stub	MT3145501	26.54	19.46	-	-	-	-	-	-
0.023"	1/8"	1-1/2"	0.069"	Regular	MT3145502	26.54	19.46	-	-	-	-	-	-
0.024"	1/8"	1-1/2"	0.036"	Stub	MT3145503	26.54	19.46	-	-	-	-	-	-
0.024"	1/8"	1-1/2"	0.072"	Regular	MT3145504	26.54	19.46	-	-	-	-	-	-
0.025"	1/8"	1-1/2"	0.038"	Stub	MT3145505	26.28	19.25	MT3196543	29.25	21.43	-	-	-
0.025"	1/8"	1-1/2"	0.075"	Regular	MT3145506	19.80	14.51	MT3196544	24.68	18.08	MT3196628	43.58	31.94
0.026"	1/8"	1-1/2"	0.039"	Stub	MT3145507	23.06	16.90	-	-	-	-	-	-
0.026"	1/8"	1-1/2"	0.078"	Regular	MT3145508	23.06	16.90	-	-	-	-	-	-
0.027"	1/8"	1-1/2"	0.041"	Stub	MT3145509	23.06	16.90	-	-	-	-	-	-
0.027"	1/8"	1-1/2"	0.081"	Regular	MT3145510	23.06	16.90	-	-	-	-	-	-
0.028"	1/8"	1-1/2"	0.042"	Stub	MT3145511	23.06	16.90	-	-	-	-	-	-
0.028"	1/8"	1-1/2"	0.084"	Regular	MT3145512	22.85	16.75	-	-	-	-	-	-
0.029"	1/8"	1-1/2"	0.044"	Stub	MT3145513	23.06	16.90	-	-	-	-	-	-
0.029"	1/8"	1-1/2"	0.087"	Regular	MT3145514	23.06	16.90	-	-	-	-	-	-
0.030"	1/8"	1-1/2"	0.045"	Stub	MT3145515	22.26	16.32	MT3196545	27.41	20.10	-	-	-
0.030"	1/8"	1-1/2"	0.090"	Regular	MT3145516	19.80	14.51	MT3196546	25.00	18.32	MT3196629	43.79	32.10
0.031"	1/8"	1-1/2"	0.047"	Stub	MT3145517	22.58	16.55	MT3196547	26.73	19.58	-	-	-
0.031"	1/8"	1-1/2"	0.093"	Regular	MT3145518	22.58	16.55	MT3196548	27.41	20.10	MT3196630	42.55	31.17
0.032"	1/8"	1-1/2"	0.048"	Stub	MT3145519	22.58	16.55	-	-	-	-	-	-
0.032"	1/8"	1-1/2"	0.096"	Regular	MT3145520	22.58	16.55	-	-	-	-	-	-
0.033"	1/8"	1-1/2"	0.050"	Stub	MT3145521	22.58	16.55	-	-	-	-	-	-
0.033"	1/8"	1-1/2"	0.099"	Regular	MT3145522	22.58	16.55	-	-	-	-	-	-
0.034"	1/8"	1-1/2"	0.051"	Stub	MT3145523	22.58	16.55	-	-	-	-	-	-
0.034"	1/8"	1-1/2"	0.102"	Regular	MT3145524	22.58	16.55	-	-	-	-	-	-
0.035"	1/8"	1-1/2"	0.053"	Stub	MT3145525	21.01	15.40	MT3196549	24.92	18.26	-	-	-
0.035"	1/8"	1-1/2"	0.105"	Regular	MT3145526	19.88	14.57	MT3196550	24.68	18.08	MT3196631	43.44	31.84
0.036"	1/8"	1-1/2"	0.054"	Stub	MT3145527	21.01	15.40	-	-	-	-	-	-

					Uncoated			AlTiN			DLC		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Length Group	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.036"	1/8"	1-1/2"	0.108"	Regular	MT3145528	21.01	15.40	-	-	-	-	-	-
0.037"	1/8"	1-1/2"	0.056"	Stub	MT3145529	21.01	15.40	-	-	-	-	-	-
0.037"	1/8"	1-1/2"	0.111"	Regular	MT3145530	21.01	15.40	-	-	-	-	-	-
0.038"	1/8"	1-1/2"	0.057"	Stub	MT3145531	21.01	15.40	-	-	-	-	-	-
0.038"	1/8"	1-1/2"	0.114"	Regular	MT3145532	21.01	15.40	-	-	-	-	-	-
0.039"	1/8"	1-1/2"	0.059"	Stub	MT3145533	20.33	14.90	-	-	-	-	-	-
0.039"	1/8"	1-1/2"	0.117"	Regular	MT3145534	20.33	14.90	MT3196551	24.16	17.72	-	-	-
0.040"	1/8"	1-1/2"	0.060"	Stub	MT3145535	20.69	15.17	MT3196552	24.40	17.89	-	-	-
0.040"	1/8"	1-1/2"	0.120"	Regular	MT3145536	19.80	14.51	MT3196553	24.71	18.11	MT3196632	43.44	31.84
0.041"	1/8"	1-1/2"	0.123"	Regular	MT3145537	21.01	15.40	-	-	-	-	-	-
0.042"	1/8"	1-1/2"	0.126"	Regular	MT3145538	21.01	15.40	-	-	-	-	-	-
0.043"	1/8"	1-1/2"	0.129"	Regular	MT3145539	21.01	15.40	-	-	-	-	-	-
0.044"	1/8"	1-1/2"	0.132"	Regular	MT3145540	21.01	15.40	-	-	-	-	-	-
0.045"	1/8"	1-1/2"	0.068"	Stub	MT3145541	20.69	15.17	MT3196554	24.40	17.89	-	-	-
0.045"	1/8"	1-1/2"	0.135"	Regular	MT3145542	17.18	12.59	MT3196555	22.08	16.18	MT3196633	43.44	31.84
0.046"	1/8"	1-1/2"	0.138"	Regular	MT3145543	21.01	15.40	-	-	-	-	-	-
0.047"	1/8"	1-1/2"	0.071"	Stub	MT3145544	20.33	14.90	MT3196556	24.16	17.72	-	-	-
0.047"	1/8"	1-1/2"	0.141"	Regular	MT3145545	20.33	14.90	MT3196557	24.16	17.72	MT3196634	43.55	31.93
0.048"	1/8"	1-1/2"	0.144"	Regular	MT3145546	21.01	15.40	-	-	-	-	-	-
0.049"	1/8"	1-1/2"	0.147"	Regular	MT3145547	21.01	15.40	-	-	-	-	-	-
0.050"	1/8"	1-1/2"	0.074"	Stub	MT3145548	20.69	15.17	MT3196558	24.40	17.89	-	-	-
0.050"	1/8"	1-1/2"	0.150"	Regular	MT3145549	17.21	12.61	MT3196559	22.11	16.20	MT3196635	43.44	31.84
0.051"	1/8"	1-1/2"	0.153"	Regular	MT3145550	21.01	15.40	-	-	-	-	-	-
0.052"	1/8"	1-1/2"	0.156"	Regular	MT3145551	21.01	15.40	-	-	-	-	-	-
0.053"	1/8"	1-1/2"	0.159"	Regular	MT3145552	21.01	15.40	-	-	-	-	-	-
0.054"	1/8"	1-1/2"	0.162"	Regular	MT3145553	21.01	15.40	-	-	-	-	-	-
0.055"	1/8"	1-1/2"	0.083"	Stub	MT3145554	20.45	15.00	MT3196560	24.40	17.89	-	-	-
0.055"	1/8"	1-1/2"	0.165"	Regular	MT3145555	17.18	12.59	MT3196561	22.08	16.18	MT3196636	43.44	31.84
0.056"	1/8"	1-1/2"	0.168"	Regular	MT3145556	21.01	15.40	-	-	-	-	-	-
0.057"	1/8"	1-1/2"	0.171"	Regular	MT3145557	21.01	15.40	-	-	-	-	-	-
0.058"	1/8"	1-1/2"	0.174"	Regular	MT3145558	21.01	15.40	-	-	-	-	-	-
0.059"	1/8"	1-1/2"	0.177"	Regular	MT3145559	21.01	15.40	-	-	-	-	-	-
0.060"	1/8"	1-1/2"	0.090"	Stub	MT3145560	20.69	15.17	MT3196562	24.40	17.89	-	-	-
0.060"	1/8"	1-1/2"	0.180"	Regular	MT3145561	17.21	12.61	MT3196563	22.11	16.20	MT3196637	43.44	31.84
0.062"	1/8"	1-1/2"	0.093"	Stub	MT3145562	18.87	13.83	MT3196564	23.38	17.14	-	-	-
0.062"	1/8"	1-1/2"	0.186"	Regular	MT3145563	18.87	13.83	MT3196565	22.95	16.81	MT3196638	43.06	31.57
0.065"	1/8"	1-1/2"	0.098"	Stub	MT3145564	19.08	13.98	MT3196566	23.65	17.32	-	-	-
0.065"	1/8"	1-1/2"	0.195"	Regular	MT3145565	19.08	13.98	MT3196567	22.99	16.84	MT3196639	43.01	31.51
0.070"	1/8"	1-1/2"	0.105"	Stub	MT3145566	19.08	13.98	MT3196568	23.67	17.35	-	-	-
0.070"	1/8"	1-1/2"	0.210"	Regular	MT3145567	19.08	13.98	MT3196569	23.03	16.87	MT3196640	43.01	31.51
0.075"	1/8"	1-1/2"	0.113"	Stub	MT3145568	19.08	13.98	MT3196570	23.65	17.32	-	-	-
0.075"	1/8"	1-1/2"	0.225"	Regular	MT3145569	19.08	13.98	MT3196571	22.99	16.84	-	-	-
0.078"	1/8"	1-1/2"	0.117"	Stub	MT3145570	18.87	13.83	MT3196572	23.38	17.14	-	-	-
0.078"	1/8"	1-1/2"	0.234"	Regular	MT3145571	18.87	13.83	MT3196573	22.95	16.81	MT3196641	43.06	31.57
0.080"	1/8"	1-1/2"	0.120"	Stub	MT3145572	19.08	13.98	MT3196574	23.65	17.32	-	-	-
0.080"	1/8"	1-1/2"	0.240"	Regular	MT3145573	19.08	13.98	MT3196575	23.03	16.87	MT3196642	43.01	31.51
0.085"	1/8"	1-1/2"	0.128"	Stub	MT3145574	19.08	13.98	MT3196576	23.65	17.32	-	-	-
0.085"	1/8"	1-1/2"	0.255"	Regular	MT3145575	19.08	13.98	MT3196577	23.14	16.96	-	-	-
0.090"	1/8"	1-1/2"	0.135"	Stub	MT3145576	19.08	13.98	MT3196578	24.04	17.62	-	-	-
0.090"	1/8"	1-1/2"	0.270"	Regular	MT3145577	19.08	13.98	MT3196579	23.09	16.92	MT3196643	42.69	31.29
0.093"	1/8"	1-1/2"	0.140"	Stub	MT3145578	18.87	13.83	MT3196580	23.38	17.14	-	-	-
0.093"	1/8"	1-1/2"	0.279"	Regular	MT3145579	17.60	12.89	MT3196581	22.95	16.81	MT3196644	43.06	31.57
0.095"	1/8"	1-1/2"	0.143"	Stub	MT3145580	19.08	13.98	MT3196582	23.65	17.32	-	-	-
0.095"	1/8"	1-1/2"	0.285"	Regular	MT3145581	19.08	13.98	MT3196583	23.59	17.29	-	-	-
0.100"	1/8"	1-1/2"	0.150"	Stub	MT3145582	19.08	13.98	MT3196584	23.67	17.35	-	-	-
0.100"	1/8"	1-1/2"	0.300"	Regular	MT3145583	19.11	14.00	MT3196585	23.03	16.87	MT3196645	43.01	31.51
0.105"	1/8"	1-1/2"	0.158"	Stub	MT3145584	18.87	13.83	MT3196586	23.38	17.14	-	-	-
0.105"	1/8"	1-1/2"	0.315"	Regular	MT3145585	18.87	13.83	MT3196587	23.38	17.14	-	-	-
0.110"	1/8"	1-1/2"	0.165"	Stub	MT3145586	18.87	13.83	MT3196588	23.38	17.14	-	-	-
0.110"	1/8"	1-1/2"	0.330"	Regular	MT3145587	18.87	13.83	MT3196589	23.38	17.14	-	-	-
0.115"	1/8"	1-1/2"	0.173"	Stub	MT3145588	18.87	13.83	MT3196590	23.38	17.14	-	-	-
0.115"	1/8"	1-1/2"	0.345"	Regular	MT3145589	18.87	13.83	MT3196591	23.38	17.14	-	-	-

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NANO MICRO CUT Solid Carbide 3-Flute Miniature Square End Single End Mills

- Micrograin - Center Cutting - 30° Helix Angle
- AlTiN Coating for abrasive and hard-to-machine materials
- DLC Coating for graphite and some non-ferrous materials
- List No. 5916



					Uncoated			AlTiN			DLC		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Usable Length (LU)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.062″	1/8″	2-1/2″	0.093″	0.750″	MT3146108	46.97	37.51	MT3197157	48.36	38.62	MT3197549	72.66	58.02
0.062″	1/8″	2-1/2″	0.093″	0.950″	MT3146109	53.06	42.37	MT3197158	57.69	46.07	MT3197550	78.51	62.69
0.062″	1/8″	2-1/2″	0.093″	1.125″	MT3146110	62.80	50.15	MT3197159	67.66	54.03	-	-	-
0.062″	1/8″	2-1/2″	0.093″	1.250″	MT3146111	62.80	50.15	MT3197160	69.16	55.23	-	-	-
0.062″	1/8″	3″	0.093″	1.375″	MT3146112	71.06	56.74	MT3197161	76.69	61.24	-	-	-
0.062″	1/8″	3″	0.093″	1.550″	MT3146113	76.17	60.82	MT3197162	82.03	65.50	-	-	-
0.062″	1/8″	2-1/2″	0.312″	-	MT3146114	32.72	26.13	MT3197163	35.17	28.08	MT3197551	60.34	48.18
0.062″	1/8″	2-1/2″	0.500″	1.000″	MT3146116	47.46	37.90	MT3197165	52.68	42.07	MT3197553	72.38	57.80
0.062″	1/8″	2-1/2″	0.500″	-	MT3146115	34.17	27.29	MT3197164	39.05	31.18	MT3197552	63.56	50.75
0.062″	1/8″	2-1/2″	0.625″	-	MT3146117	46.00	36.73	MT3197166	50.99	40.72	-	-	-
0.062″	1/8″	2-1/2″	0.750″	-	MT3146118	57.89	46.23	MT3197167	66.22	52.88	MT3197554	85.30	68.12
0.062″	1/8″	2-1/2″	0.950″	-	MT3146119	85.55	68.31	MT3197168	90.64	72.38	MT3197555	105.57	84.30
0.065″	1/8″	2-1/2″	0.097″	0.325″	MT3146120	46.00	36.73	MT3197169	50.99	40.72	-	-	-
0.065″	1/8″	2-1/2″	0.097″	0.530″	MT3146121	45.98	36.72	MT3197170	50.99	40.72	MT3197556	71.41	57.02
0.065″	1/8″	2-1/2″	0.097″	0.800″	MT3146122	46.97	37.51	MT3197171	51.58	41.19	-	-	-
0.065″	1/8″	2-1/2″	0.325″	-	MT3146123	33.11	26.44	MT3197172	38.65	30.86	-	-	-
0.065″	1/8″	2-1/2″	0.500″	-	MT3146124	36.95	29.51	MT3197173	42.66	34.07	MT3197557	63.56	50.75
0.070″	1/8″	2-1/2″	0.105″	0.375″	MT3146125	46.00	36.73	MT3197174	50.99	40.72	-	-	-
0.070″	1/8″	2-1/2″	0.105″	0.570″	MT3146126	45.98	36.72	MT3197175	50.99	40.72	MT3197558	71.41	57.02
0.070″	1/8″	2-1/2″	0.105″	0.850″	MT3146127	46.97	37.51	MT3197176	51.58	41.19	-	-	-
0.070″	1/8″	2-1/2″	0.105″	1.062″	MT3146128	53.06	42.37	MT3197177	57.69	46.07	-	-	-
0.070″	1/8″	2-1/2″	0.375″	-	MT3146129	32.72	26.13	MT3197178	35.91	28.68	-	-	-
0.070″	1/8″	2-1/2″	0.500″	1.000″	MT3146131	47.46	37.90	MT3197180	52.68	42.07	MT3197560	72.38	57.80
0.070″	1/8″	2-1/2″	0.500″	-	MT3146130	36.95	29.51	MT3197179	42.66	34.07	MT3197559	63.56	50.75
0.075″	1/8″	2-1/2″	0.112″	0.375″	MT3146132	46.00	36.73	MT3197181	50.41	40.25	-	-	-
0.075″	1/8″	2-1/2″	0.112″	0.625″	MT3146133	45.98	36.72	MT3197182	50.99	40.72	MT3197561	71.41	57.02
0.075″	1/8″	2-1/2″	0.112″	0.900″	MT3146134	46.97	37.51	MT3197183	51.58	41.19	-	-	-
0.075″	1/8″	2-1/2″	0.375″	-	MT3146135	33.11	26.44	MT3197184	38.65	30.86	-	-	-
0.075″	1/8″	2-1/2″	0.500″	-	MT3146136	36.95	29.51	MT3197185	43.06	34.39	MT3197562	63.56	50.75
0.078″	1/8″	2-1/2″	0.117″	0.234″	MT3146137	46.00	36.73	-	-	-	-	-	-
0.078″	1/8″	2-1/2″	0.117″	0.406″	MT3146138	45.98	36.72	MT3197187	50.99	40.72	MT3197563	71.41	57.02
0.078″	1/8″	2-1/2″	0.117″	0.625″	MT3146139	45.98	36.72	MT3197188	50.99	40.72	MT3197564	71.41	57.02
0.078″	1/8″	2-1/2″	0.117″	0.800″	MT3146140	46.97	37.51	MT3197189	51.58	41.19	-	-	-
0.078″	1/8″	2-1/2″	0.117″	0.940″	MT3146141	46.97	37.51	MT3197190	51.58	41.19	MT3197565	72.66	58.02
0.078″	1/8″	2-1/2″	0.117″	1.187″	MT3146142	53.06	42.37	MT3197191	57.69	46.07	-	-	-
0.078″	1/8″	3″	0.117″	1.562″	MT3146143	62.80	50.15	MT3197192	67.62	54.00	-	-	-
0.078″	1/8″	2-1/2″	0.406″	-	MT3146144	30.56	24.40	MT3197193	37.90	30.26	MT3197566	60.34	48.18
0.078″	1/8″	2-1/2″	0.500″	1.000″	MT3146145	47.56	37.98	MT3197194	52.68	42.07	MT3197567	72.38	57.80
0.078″	1/8″	2-1/2″	0.625″	-	MT3146146	36.60	29.23	MT3197195	39.05	31.18	MT3197568	63.56	50.75
0.078″	1/8″	2-1/2″	0.800″	-	MT3146147	46.00	36.73	MT3197196	50.99	40.72	-	-	-
0.078″	1/8″	2-1/2″	0.940″	-	MT3146148	62.58	49.97	MT3197197	66.71	53.27	MT3197569	85.30	68.12
0.078″	1/8″	2-1/2″	1.1875″	-	MT3146149	85.55	68.31	MT3197198	90.64	72.38	MT3197570	105.57	84.30
0.080″	1/8″	2-1/2″	0.120″	0.406″	MT3146150	46.00	36.73	MT3197199	50.99	40.72	-	-	-
0.080″	1/8″	2-1/2″	0.120″	0.650″	MT3146151	45.98	36.72	MT3197200	50.99	40.72	MT3197571	71.41	57.02
0.080″	1/8″	2-1/2″	0.120″	0.960″	MT3146152	46.97	37.51	MT3197201	51.58	41.19	-	-	-
0.080″	1/8″	2-1/2″	0.406″	-	MT3146153	33.11	26.44	MT3197202	38.65	30.86	-	-	-
0.080″	1/8″	2-1/2″	0.750″	1.250″	MT3146155	47.53	37.95	MT3197204	52.68	42.07	MT3197573	72.38	57.80
0.080″	1/8″	2-1/2″	0.750″	-	MT3146154	36.62	29.24	MT3197203	41.89	33.45	MT3197572	63.56	50.75
0.080″	1/8″	2-1/2″	0.960″	-	MT3146156	62.58	49.97	MT3197205	66.71	53.27	-	-	-
0.085″	1/8″	2-1/2″	0.127″	0.425″	MT3146157	46.00	36.73	MT3197206	50.99	40.72	-	-	-
0.085″	1/8″	2-1/2″	0.127″	0.700″	MT3146158	45.98	36.72	MT3197207	50.99	40.72	MT3197574	71.41	57.02
0.085″	1/8″	2-1/2″	0.127″	1.020″	MT3146159	46.97	37.51	MT3197208	51.58	41.19	-	-	-
0.085″	1/8″	2-1/2″	0.425″	-	MT3146160	33.11	26.44	MT3197209	38.65	30.86	-	-	-
0.085″	1/8″	2-1/2″	0.750″	1.250″	MT3146162	47.53	37.95	MT3197211	52.68	42.07	MT3197576	72.38	57.80
0.085″	1/8″	2-1/2″	0.750″	-	MT3146161	36.62	29.24	MT3197210	41.89	33.45	MT3197575	63.56	50.75
0.090″	1/8″	2-1/2″	0.135″	0.450″	MT3146163	46.00	36.73	MT3197212	50.99	40.72	-	-	-
0.090″	1/8″	2-1/2″	0.135″	0.750″	MT3146164	45.98	36.72	MT3197213	50.99	40.72	MT3197577	71.41	57.02
0.090″	1/8″	2-1/2″	0.135″	1.080″	MT3146165	46.97	37.51	MT3197214	51.58	41.19	-	-	-
0.090″	1/8″	2-1/2″	0.450″	-	MT3146166	33.11	26.44	MT3197215	38.65	30.86	-	-	-
0.090″	1/8″	2-1/2″	0.750″	1.250″	MT3146168	47.46	37.90	MT3197217	52.68	42.07	MT3197579	72.38	57.80
0.090″	1/8″	2-1/2″	0.750″	-	MT3146167	37.03	29.57	MT3197216	42.66	34.07	MT3197578	63.56	50.75
0.090″	1/8″	2-1/2″	1.080″	-	MT3146169	62.58	49.97	MT3197218	66.71	53.27	-	-	-
0.093″	1/8″	2-1/2″	0.139″	0.279″	MT3146170	46.00	36.73	MT3197219	50.99	40.72	-	-	-
0.093″	1/8″	2-1/2″	0.139″	0.500″	MT3146171	44.07	35.19	MT3197220	47.56	37.98	MT3197580	71.41	57.02
0.093″	1/8″	2-1/2″	0.139″	0.750″	MT3146172	45.98	36.72	MT3197221	50.99	40.72	MT3197581	71.41	57.02
0.093″	1/8″	2-1/2″	0.139″	0.950″	MT3146173	46.97	37.51	MT3197222	51.58	41.19	-	-	-
0.093″	1/8″	2-1/2″	0.139″	1.125″	MT3146174	46.97	37.51	MT3197223	51.58	41.19	MT3197582	72.66	58.02
0.093″	1/8″	3″	0.139″	1.400″	MT3146175	56.25	44.92	MT3197224	61.63	49.21	MT3197583	81.30	64.92

					Uncoated			AlTiN			DLC		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Usable Length (LU)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.093″	1/8″	3″	0.139″	1.675″	MT3146176	66.88	53.41	MT3197225	71.96	57.46	-	-	-
0.093″	1/8″	4″	0.139″	1.875″	MT3146177	69.47	55.47	MT3197226	75.22	60.07	-	-	-
0.093″	1/8″	2-1/2″	0.500″	-	MT3146178	30.56	24.40	MT3197227	35.17	28.08	MT3197584	60.34	48.18
0.093″	1/8″	2-1/2″	0.750″	1.250″	MT3146180	47.46	37.90	MT3197229	52.68	42.07	MT3197586	72.38	57.80
0.093″	1/8″	2-1/2″	0.750″	-	MT3146179	36.60	29.23	MT3197228	39.61	31.63	MT3197585	63.56	50.75
0.093″	1/8″	2-1/2″	0.950″	-	MT3146181	46.00	36.73	MT3197230	50.99	40.72	-	-	-
0.093″	1/8″	2-1/2″	1.125″	-	MT3146182	57.89	46.23	MT3197231	62.30	49.75	MT3197587	85.30	68.12
0.093″	1/8″	3″	1.400″	-	MT3146183	88.94	71.02	MT3197232	94.21	75.23	MT3197588	115.65	92.35
0.095″	1/8″	2-1/2″	0.142″	0.500″	MT3146184	46.00	36.73	MT3197233	50.99	40.72	-	-	-
0.095″	1/8″	2-1/2″	0.142″	0.750″	MT3146185	45.98	36.72	MT3197234	50.99	40.72	MT3197589	71.41	57.02
0.095″	1/8″	2-1/2″	0.142″	1.150″	MT3146186	46.97	37.51	MT3197235	51.58	41.19	-	-	-
0.100″	1/8″	2-1/2″	0.150″	0.500″	MT3146187	46.00	36.73	MT3197236	50.99	40.72	-	-	-
0.100″	1/8″	2-1/2″	0.150″	0.800″	MT3146188	45.98	36.72	MT3197237	50.99	40.72	MT3197590	71.41	57.02
0.100″	1/8″	2-1/2″	0.150″	1.200″	MT3146189	46.97	37.51	MT3197238	51.58	41.19	-	-	-
0.100″	1/8″	3″	0.150″	1.500″	MT3146190	56.25	44.92	MT3197239	61.63	49.21	-	-	-
0.100″	1/8″	2-1/2″	0.500″	-	MT3146191	33.11	26.44	MT3197240	38.65	30.86	-	-	-
0.100″	1/8″	2-1/2″	0.750″	1.250″	MT3146193	47.46	37.90	MT3197242	48.99	39.12	MT3197592	72.38	57.80
0.100″	1/8″	2-1/2″	0.750″	-	MT3146192	36.95	29.51	MT3197241	42.66	34.07	MT3197591	63.56	50.75
0.100″	1/8″	2-1/2″	1.200″	-	MT3146194	62.58	49.97	MT3197243	66.71	53.27	-	-	-
0.109″	1/8″	2-1/2″	0.163″	0.570″	MT3146195	46.00	36.73	MT3197244	50.99	40.72	-	-	-
0.109″	1/8″	2-1/2″	0.163″	0.900″	MT3146196	45.98	36.72	MT3197245	50.99	40.72	-	-	-
0.109″	1/8″	2-1/2″	0.570″	-	MT3146197	33.11	26.44	MT3197246	38.65	30.86	-	-	-
0.109″	1/8″	2-1/2″	0.900″	-	MT3146198	37.03	29.57	MT3197247	42.66	34.07	-	-	-
0.118″	1/8″	2-1/2″	0.177″	0.625″	MT3146199	46.00	36.73	MT3197248	50.99	40.72	-	-	-
0.118″	1/8″	2-1/2″	0.177″	0.950″	MT3146200	45.98	36.72	MT3197249	50.99	40.72	-	-	-
0.118″	1/8″	3″	0.177″	1.420″	MT3146201	47.03	37.55	MT3197250	51.58	41.19	-	-	-
0.118″	1/8″	2-1/2″	0.625″	-	MT3146202	33.11	26.44	MT3197251	38.65	30.86	-	-	-
0.118″	1/8″	2-1/2″	0.950″	-	MT3146203	37.03	29.57	MT3197252	42.66	34.07	-	-	-
0.125″	1/8″	2-1/2″	0.187″	0.375″	MT3146204	46.00	36.73	MT3197253	50.99	40.72	-	-	-
0.125″	1/8″	2-1/2″	0.187″	0.625″	MT3146205	45.98	36.72	MT3197254	50.99	40.72	MT3197593	71.41	57.02
0.125″	1/8″	2-1/2″	0.187″	1.000″	MT3146206	45.98	36.72	MT3197255	50.99	40.72	MT3197594	71.41	57.02
0.125″	1/8″	2-1/2″	0.187″	1.250″	MT3146207	49.36	39.42	MT3197256	55.02	43.94	-	-	-
0.125″	1/8″	3″	0.187″	1.500″	MT3146208	49.42	39.46	MT3197257	55.08	43.98	MT3197595	76.17	60.82
0.125″	1/8″	3″	0.187″	1.875″	MT3146209	56.25	44.92	MT3197258	61.63	49.21	-	-	-
0.125″	1/8″	4″	0.187″	2.250″	MT3146210	66.88	53.41	MT3197259	71.86	57.38	-	-	-
0.125″	1/8″	4″	0.187″	2.500″	MT3146211	66.88	53.41	MT3197260	71.86	57.38	-	-	-
0.125″	1/8″	4″	0.187″	3.125″	MT3146212	79.51	63.49	MT3197261	85.41	68.20	-	-	-
0.125″	1/8″	2-1/2″	0.625″	-	MT3146213	32.75	26.15	MT3197262	38.36	30.63	MT3197596	60.16	48.04
0.125″	1/8″	2-1/2″	1.000″	1.500″	MT3146215	47.46	37.90	MT3197264	52.68	42.07	MT3197598	72.38	57.80
0.125″	1/8″	2-1/2″	1.000″	-	MT3146214	34.69	27.70	MT3197263	40.31	32.19	MT3197597	61.71	49.28
0.125″	1/8″	2-1/2″	1.250″	-	MT3146216	58.34	46.59	MT3197265	63.88	51.01	-	-	-
0.125″	1/8″	3″	1.500″	-	MT3146217	66.43	53.05	MT3197266	70.69	56.45	MT3197599	91.91	73.39
0.125″	1/8″	3″	1.875″	-	MT3146218	88.94	71.02	MT3197267	94.21	75.23	MT3197600	115.65	92.35
0.140″	3/16″	3″	0.211″	0.750″	MT3146219	54.57	43.58	MT3197268	59.81	47.76	-	-	-
0.140″	3/16″	3″	0.211″	1.125″	MT3146220	54.57	43.58	MT3197269	59.81	47.76	-	-	-
0.156″	3/16″	3″	0.234″	0.470″	MT3146221	54.57	43.58	MT3197270	59.81	47.76	-	-	-
0.156″	3/16″	3″	0.234″	0.750″	MT3146222	54.57	43.58	MT3197271	59.81	47.76	-	-	-
0.156″	3/16″	3″	0.234″	1.250″	MT3146223	54.57	43.58	MT3197272	59.81	47.76	-	-	-
0.156″	3/16″	4″	0.234″	1.875″	MT3146224	57.92	46.25	MT3197273	65.09	51.98	-	-	-
0.156″	3/16″	4″	0.234″	2.375″	MT3146225	61.94	49.46	MT3197274	69.16	55.23	-	-	-
0.187″	3/16″	6″	0.281″	3.750″	MT3146232	83.55	66.72	-	-	-	-	-	-
0.187″	3/16″	3″	1.125″	1.625″	MT3146233	56.22	44.89	-	-	-	-	-	-
0.1875″	3/16″	3″	0.281″	0.570″	MT3146226	54.57	43.58	MT3197275	59.81	47.76	-	-	-
0.1875″	3/16″	3″	0.281″	1.000″	MT3146227	54.57	43.58	MT3197276	59.81	47.76	MT3197601	78.95	63.04
0.1875″	3/16″	3″	0.281″	1.500″	MT3146228	54.57	43.58	MT3197277	59.81	47.76	MT3197602	78.95	63.04
0.1875″	3/16″	4″	0.281″	1.875″	MT3146229	57.92	46.25	MT3197278	65.09	51.98	-	-	-
0.1875″	3/16″	4″	0.281″	2.250″	MT3146230	57.92	46.25	MT3197279	65.09	51.98	MT3197603	83.59	66.75
0.1875″	3/16″	4″	0.281″	2.812″	MT3146231	61.94	49.46	MT3197280	69.16	55.23	-	-	-
0.1875″	3/16″	6″	0.281″	3.750″	-	-	-	MT3197281	92.43	73.81	-	-	-
0.1875″	3/16″	3″	1.125″	1.625″	-	-	-	MT3197282	61.63	49.21	MT3197604	82.96	66.25
0.1875″	1/4″	4″	1.500″	2.000″	MT3146239	62.69	50.06	MT3197288	69.47	55.47	MT3197608	90.52	72.28
0.250″	1/4″	4″	0.375″	1.250″	MT3146234	60.59	48.38	MT3197283	69.44	55.45	MT3197605	87.14	69.58
0.250″	1/4″	4″	0.375″	2.000″	MT3146235	60.59	48.38	MT3197284	69.44	55.45	MT3197606	87.14	69.58
0.250″	1/4″	4″	0.375″	2.500″	MT3146236	68.24	54.49	MT3197285	77.94	62.24	-	-	-
0.250″	1/4″	6″	0.375″	3.000″	MT3146237	73.36	58.58	MT3197286	83.09	66.35	MT3197607	112.45	89.79
0.250″	1/4″	6″	0.375″	3.750″	MT3146238	75.84	60.56	MT3197287	85.81	68.52	-	-	-

30145

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

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



Diameter	Arbor Hole	Thickness	Grit	Order No.	Regular Price	SALE
2″	1/4″	1/8″	24	SP010201252124A	4.56	3.35
2″	1/4″	1/8″	36	SP010201252136A	4.61	3.37
2″	1/4″	1/8″	46	SP010201252146A	7.04	5.16
2″	3/8″	1/8″	24	SP010201253124A	4.56	3.35
2″	3/8″	1/8″	36	SP010201253136A	4.61	3.37
2″	3/8″	1/8″	46	SP010201253146A	4.38	3.21
3″	1/4″	1/8″	24	SP010301252124A	3.12	2.29
3″	1/4″	1/8″	36	SP010301252136A	3.12	2.29
3″	1/4″	1/8″	46	SP010301252146A	3.07	2.24
3″	3/8″	1/8″	24	SP010301253124A	3.61	2.65
3″	3/8″	1/8″	36	SP010301253136A	3.12	2.29
3″	3/8″	1/8″	46	SP010301253146A	4.16	3.05
4″	1/4″	1/8″	24	SP010401252124A	4.38	3.21
4″	1/4″	1/8″	36	SP010401252136A	4.37	3.20
4″	1/4″	1/8″	46	SP010401252146A	4.75	3.47
4″	3/8″	1/8″	24	SP010401253124A	4.37	3.20
4″	3/8″	1/8″	36	SP010401253136A	4.37	3.20
4″	3/8″	1/8″	46	SP010401253146A	4.75	3.47
4″	5/8″	1/8″	24	SP010401255124A	4.37	3.20
4″	5/8″	1/8″	36	SP010401255136A	4.37	3.20
4″	5/8″	1/8″	46	SP010401255146A	4.75	3.47

25162

SUPERIOR ABRASIVES Ceramic with Grinding Aid Quick Change Discs

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



Diameter - 2″						
	Turn-On			Roll-On		
Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6440311	1.74	1.27	MM6440329	1.74	1.27
50	MM6440313	1.57	1.15	MM6440331	1.53	1.11
60	MM6440314	1.48	1.09	MM6440332	1.44	1.06
80	MM6440315	1.44	1.06	MM6440333	1.40	1.03
120	MM6440316	1.40	1.03	MM6440334	1.36	0.99

Diameter - 3″						
	Turn-On			Roll-On		
Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6440317	2.17	1.59	MM6440335	2.17	1.59
50	MM6440319	1.99	1.45	MM6440337	1.99	1.45
60	MM6440320	1.85	1.35	MM6440338	1.81	1.32
80	MM6440321	1.78	1.30	MM6440339	1.74	1.27
120	MM6440322	1.78	1.30	MM6440340	1.74	1.27

619

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	10.53	7.72
1/4″ or 3/8″	1/4″	2.15″	3/4″	SP24143814SH	12.11	8.87
3/8″	1/4″	2.15″	3/4″	SP24003814SH	10.53	7.72

Arbor Adapter, Nut Type						
Arbor Hole	Shank	Length	Washer OD	Order No.	Regular Price	SALE
1/4″	1/4″	2.50″	1″	SP24001414NT	9.95	7.30
3/8″	1/4″	2.50″	1″	SP24003814NT	9.95	7.30
1/2″	1/4″	2.50″	1 1/2″	SP24001214NT	10.82	7.94

696

3M Utility Cloth Rolls

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



Width	Length	Backing Weight	Grit	Standard Pack	Order No.	Regular Price	SALE
1″	50 yard	X	50	5	TM1219794	73.30	58.64
1″	50 yard	X	60	5	TM1219793	68.49	54.79
1″	50 yard	J	80	5	TM1219792	57.86	46.29
1″	50 yard	J	120	5	TM1219790	55.94	44.75
1″	50 yard	J	150	5	TM1219789	55.94	44.75
1″	50 yard	J	180	5	TM1219788	55.94	44.75
1″	50 yard	J	220	5	TM1219787	55.94	44.75
1″	50 yard	J	240	5	TM1219786	55.94	44.75
1″	50 yard	J	280	5	TM1219785	55.94	44.75
1″	50 yard	J	400	5	TM1219783	55.94	44.75
1 1/2″	50 yard	X	50	5	TM1219813	102.26	81.81
1 1/2″	50 yard	J	80	5	TM1219811	81.03	64.82
1 1/2″	50 yard	J	120	5	TM1219809	78.12	62.50
1 1/2″	50 yard	J	150	5	TM1219808	78.12	62.50
1 1/2″	50 yard	J	180	5	TM1219807	78.12	62.50
1 1/2″	50 yard	J	220	5	TM1219806	78.12	62.50
1 1/2″	50 yard	J	240	5	TM1219805	78.12	62.50
1 1/2″	50 yard	J	280	5	TM1219804	78.12	62.50
1 1/2″	50 yard	J	400	5	TM1219802	78.12	62.50
2″	50 yard	X	50	5	TM1219825	132.15	105.72
2″	50 yard	X	60	5	TM1219824	124.45	99.56
2″	50 yard	J	80	5	TM1219823	104.19	83.35
2″	50 yard	J	100	5	TM1219822	99.34	79.47
2″	50 yard	J	120	5	TM1219821	99.34	79.47
2″	50 yard	J	150	5	TM1219820	99.34	79.47
2″	50 yard	J	180	5	TM1219819	99.34	79.47
2″	50 yard	J	220	5	TM1219818	99.34	79.47
2″	50 yard	J	240	5	TM1219817	99.34	79.47
2″	50 yard	J	280	5	TM1219816	99.34	79.47
2″	50 yard	J	320	5	TM1219815	99.34	79.47
2″	50 yard	J	400	5	TM1219814	99.34	79.47

150

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

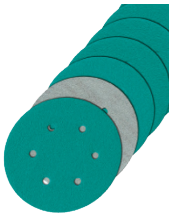
- Ceramic grain
- Fiberglass reinforced
- Durable and self-sharpening for fast, cool cutting and long wheel life
- Use on stainless steel, high tensile alloys and ferrous metals (iron, steel, welds, etc)



Diameter	Thickness	Arbor Hole	Maximum RPM	Specification	Order No.	Regular Price	SALE
2″	.060″	1/4″	30,550	#707	SP010200602160C	5.70	4.17
2″	.060″	3/8″	30,550	#707	SP010200603160C	5.70	4.17
3″	.060″	1/4″	25,000	#707	SP010300602160C	9.76	7.15
3″	.060″	3/8″	25,000	#707	SP010300603160C	9.76	7.15
4″	.060″	3/8″	25,000	#707	SP010400603160C	7.21	5.28

25174

Q711T Hook & Loop Aluminum Oxide Discs

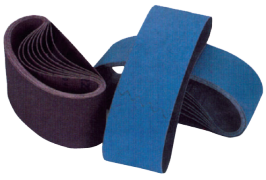


- Velcro
- Film backing - Strong, yet pliable .003 Mylar backing
- Film offers up to 4X the life vs. paper discs
- Longest lasting disc available by up to 300% over paper discs
- Uniform film backing with "P" graded abrasive for uniform finish
- Faster rate of cut, more consistent finish and longer life
- Sold in packs of 100

		No Hole			8		
Diameter	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
5"	80	MG9451231	1.22	0.90	MG9451303	1.22	0.90
5"	100	MG9451232	1.16	0.85	MG9451304	1.16	0.85
5"	120	MG9451233	1.13	0.84	MG9451305	1.13	0.84
5"	150	MG9451234	1.13	0.84	MG9451306	1.13	0.84
5"	180	MG9451235	1.13	0.84	MG9451307	1.13	0.84
5"	220	MG9451236	1.13	0.84	MG9451308	1.13	0.84
5"	320	MG9451239	1.13	0.84	-	-	-

260

Abrasive Belts

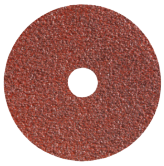


- Norton Abrasvie Belts - Premier belts for production metal finishing
- Aluminum Oxide - Versitile abrasive for general purpose applications, X weight cloth back
- Zirconia Alumina - Recommended for removal and finish on ferous and non-ferrous metals, X weight polyester back
- Ceramic Alumina - Recommended for finishing exotic alloys, Y weight polyester back

			Aluminum Oxide			Zirconia Alumina		
Width	Length	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
6"	48"	36	MH61B0422095	15.14	11.03	MH61B0627698	38.87	28.28
6"	48"	40	MH61B0120900	6.41	4.66	MH61B0627697	41.06	29.87
6"	48"	40	MH61B0622585	52.47	38.17	MH61B0628937	36.34	26.42
6"	48"	60	MH61B0622575	35.82	26.04	MH61B0628931	32.06	23.33
2"	48"	80	MH61B0622570	27.77	20.20	MH61B0227099	10.41	7.56
2"	48"	120	MH61B0622560	26.92	19.60	MH61B0228615	11.29	8.22

24108

EAO-Premium Aluminum Oxide Resin Fiber Discs



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

Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016EAO	1.29	1.03
4 1/2"	7/8"	60	SP11RF457060EAO	1.05	0.84
4 1/2"	7/8"	100	SP11RF457100EAO	0.94	0.75
4 1/2"	7/8"	120	SP11RF457120EAO	0.94	0.75
5"	7/8"	16	SP11RF057016EAO	1.41	1.13
5"	7/8"	24	SP11RF057024EAO	1.41	1.13
5"	7/8"	36	SP11RF057036EAO	1.33	1.06
5"	7/8"	50	SP11RF057050EAO	1.29	1.03
5"	7/8"	60	SP11RF057060EAO	1.41	1.13
7"	7/8"	24	SP11RF077024EAO	2.52	2.02
7"	7/8"	36	SP11RF077036EAO	2.33	2.10

28711

Small Diameter Thin Cut-Off Wheels - Zirconia - Type 1



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

Diameter	Thickness	Arbor Hole	Grit	Order No.	Regular Price	SALE
2"	.060"	1/4"	46	SP010200602146Z	4.77	3.50
2"	.060"	1/4"	60	SP010200602160Z	4.77	3.50
2"	.060"	3/8"	46	SP010200603146Z	4.77	3.50
2"	.060"	3/8"	60	SP010200603160Z	4.77	3.50
4"	.060"	3/8"	46	SP010400603146Z	7.28	5.34
4"	.060"	3/8"	60	SP010400603160Z	5.26	3.86
4"	1/16"	1/4"	46	SP010400622146Z	4.23	3.10
4"	1/16"	3/8"	46	SP010400623146Z	4.63	3.41

25176

Aluminum Oxide Cloth PSA Discs-No Hole Type



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

	40			60			80			100			120			36		
Diameter	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
2"	SP11PSAD02040A	0.36	0.27	SP11PSAD02060A	0.38	0.27	SP11PSAD02080A	0.67	0.49	SP11PSAD02100A	0.27	0.19	SP11PSAD02120A	0.25	0.18	-	-	-
3"	SP11PSAD03040A	0.66	0.48	SP11PSAD03060A	0.66	0.48	SP11PSAD03080A	0.59	0.43	SP11PSAD03100A	0.52	0.38	SP11PSAD03120A	0.52	0.38	-	-	-
5"	SP11PSAD05040A	1.88	1.38	SP11PSAD05060A	1.58	1.15	SP11PSAD05080A	1.51	1.11	SP11PSAD05100A	1.43	1.05	SP11PSAD05120A	1.43	1.05	SP11PSAD05036A	2.06	1.51
6"	SP11PSAD06040A	2.60	1.91	SP11PSAD06060A	2.28	1.67	SP11PSAD06080A	2.13	1.56	SP11PSAD06100A	1.51	1.11	SP11PSAD06120A	1.92	1.41	SP11PSAD06036A	2.98	2.18
8"	SP11PSAD08040A	3.19	2.35	SP11PSAD08060A	4.00	2.93	SP11PSAD08080A	3.68	2.69	SP11PSAD08100A	2.76	2.02	SP11PSAD08120A	2.76	2.02	SP11PSAD08036A	5.36	3.93
9"	SP11PSAD09040A	5.63	4.13	SP11PSAD09060A	5.68	4.17	SP11PSAD09080A	4.89	3.58	SP11PSAD09100A	5.12	3.75	SP11PSAD09120A	5.12	3.75	SP11PSAD09036A	5.88	4.31
10"	SP11PSAD10040A	6.87	5.04	SP11PSAD10060A	7.39	5.43	SP11PSAD10080A	7.42	5.44	SP11PSAD10100A	5.81	4.26	SP11PSAD10120A	6.08	4.46	SP11PSAD10036A	7.17	5.58
12"	SP11PSAD12040A	9.20	6.73	SP11PSAD12060A	8.39	6.15	SP11PSAD12080A	8.43	6.18	SP11PSAD12100A	7.90	5.79	SP11PSAD12120A	7.90	5.79	SP11PSAD12036A	12.17	8.91
15"	SP11PSAD15040A	15.41	11.29	SP11PSAD15060A	13.54	9.92	SP11PSAD15080A	13.40	9.81	SP11PSAD15100A	12.99	9.53	-	-	-	SP11PSAD15036A	15.99	11.71
16"	SP11PSAD16040A	14.35	10.52	SP11PSAD16060A	12.77	9.35	SP11PSAD16080A	12.03	8.81	SP11PSAD16100A	10.78	7.90	SP11PSAD16120A	11.34	8.30	SP11PSAD16036A	18.77	13.76
20"	SP11PSAD20040A	22.99	16.84	SP11PSAD20060A	22.08	16.18	SP11PSAD20080A	20.71	15.17	SP11PSAD20100A	15.44	12.03	SP11PSAD20120A	20.89	15.30	SP11PSAD20036A	30.65	22.45
24"	SP11PSAD24040A	38.21	28.00	SP11PSAD24060A	37.07	27.17	SP11PSAD24080A	35.03	25.68	SP11PSAD24100A	32.40	23.74	SP11PSAD24120A	32.40	23.74	SP11PSAD24036A	43.71	32.02

25147

SURF PRO CGW 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	28.84	17.17
For Use On: Diamond & Carbon Wheels - Brake Truing Device	NP55DT100	618.06	389.24

658

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	Width	Arbor Hole	Grit	Order No.	Regular Price	SALE
6"	3/4"	1"	60	SP01063041G060I	54.49	39.93
6"	3/4"	1"	80	SP01063041G080I	54.49	39.93
6"	3/4"	1"	100	SP01063041G100I	54.49	39.93
6"	1"	1"	60	SP01064041G060I	50.20	36.79
6"	1"	1"	80	SP01064041G080I	62.36	45.69
6"	1"	1"	100	SP01064041G100I	50.20	36.79
7"	1"	1"	60	SP01074041G060I	71.30	52.26
7"	1"	1"	80	SP01074041G080I	71.30	52.26
8"	1"	1 1/4"	60	SP01084041G060I	82.71	60.63
8"	1"	1 1/4"	80	SP01084041G080I	82.71	60.63
8"	1"	1 1/4"	100	SP01084041G100I	88.61	64.94

25153

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

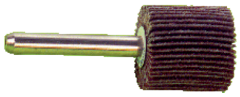


- 60 Grit thru 180 grit C-weight
- 220 Grit and finer A-weight

Grit	Order No.	Regular Price	SALE
60	SP12S911060S	1.12	0.82
80	SP12S911080S	1.06	0.79
120	SP12S911120S	1.04	0.75
150	SP12S911150S	0.84	0.61
180	SP12S911180S	0.77	0.57
220	SP12S911220S	0.77	0.57
240	SP12S911240S	0.67	0.49
280	SP12S911280S	0.77	0.57
320	SP12S911320S	0.73	0.54
360	SP12S911360S	0.73	0.54
400	SP12S911400S	0.73	0.54
500	SP12S911500S	0.73	0.54
600	SP12S911600S	0.73	0.54
1000	SP12S9111000S	0.77	0.57

10739

CGW Coated Abrasive Mounted Flap Wheels



- Aluminum oxide abrasive - resin bond cloth
- Mounted on 1/4" hardened steel shanks
- Ideal for finishing
- Packed 10 per box

Diameter	Face Width	Grit	Order No.	Regular Price	SALE
1"	1"	120	MH50143120	7.55	4.49
1"	1"	60	MH5014360	7.55	4.49
1"	1"	80	MH5014380	7.55	4.49
1 1/2"	1"	120	MH50155120	9.28	5.52
1 1/2"	1"	60	MH5015560	9.28	5.52
1 1/2"	1"	80	MH5015580	9.28	5.52
2"	1"	120	MH50163120	11.05	6.57
2"	1"	60	MH5016360	10.98	6.54
2"	1"	80	MH5016380	10.98	6.54
2 1/2"	1"	120	MH50171120	15.53	9.24
2 1/2"	1"	60	MH5017160	15.27	9.10
2 1/2"	1"	80	MH5017180	15.27	9.10
3"	1"	120	MH50179120	17.92	10.67
3"	1"	60	MH5017960	16.95	10.10
3"	1"	80	MH5017980	16.95	10.10

22848

SURF PRO Diamond Face Wheels - Type 62AC

Resin Bond - Plate Mounted



- Any Grit Size, Concentration or Diamond Depth Not Shown - Ask for a Quotation

						120			150			220		
Rim	Diameter	Width	Arbor Hole	Concentration	Depth	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/8"	6"	3/4"	1 1/4"	100	1/16"	MP506180137	342.15	250.75	MP506180147	346.12	253.68	-	-	-
3/8"	6"	3/4"	1 1/4"	100	1/8"	MP506180138	404.98	296.80	-	-	-	-	-	-
3/8"	6"	3/4"	1 1/4"	50	1/8"	MP506180132	361.40	264.87	MP506180142	361.40	264.87	-	-	-
1/2"	6"	3/4"	1 1/4"	100	1/16"	-	-	-	MP506180247	345.10	252.92	-	-	-
1/2"	6"	3/4"	1 1/4"	100	1/8"	MP506180238	409.15	299.87	-	-	-	-	-	-
1/2"	6"	3/4"	1 1/4"	50	1/8"	MP506180232	342.15	250.75	-	-	-	-	-	-
3/4"	6"	3/4"	1 1/4"	100	1/16"	MP506180337	427.14	313.04	MP506180347	427.73	313.48	MP506180367	427.73	313.48
3/4"	6"	3/4"	1 1/4"	100	1/8"	MP506180338	481.36	352.79	MP506180348	481.36	352.79	MP506180368	421.06	308.60
3/4"	6"	3/4"	1 1/4"	75	1/8"	MP506180335	427.73	313.48	MP506180345	427.73	313.48	MP506180365	433.37	317.62

668

Kutzall® Carbide Abrasive Tools

Excellent for Cutting Plastic, Fiberglass, Rubber and Wood

Superior stock removal rate and will not load up "SSG Carbide Teeth" on soft materials



1/4"					
Head Diameter	Length	Shape	Order No.	Regular Price	SALE
1/4"	1 3/4"	Ball Nose	MN35BN14S	28.42	20.83
1/4"	1 3/4"	Taper	MN35T14S	28.42	20.83
1/2"	1"	Flame	MN35FL12S	28.42	20.83
3/4"	1"	Cylinder	MN35C34S	34.29	25.13
3/4"	1 1/8"	Ball Nose	MN35BN34S	36.72	26.90
1"	1"	Sphere	MN35S1S	42.11	30.85

1/8"					
Head Diameter	Length	Shape	Order No.	Regular Price	SALE
1/8"	3/4"	Ball Nose	MN35BN18ES	22.10	16.19
1/8"	3/4"	Cylinder	MN35C18ES	22.10	16.19
1/8"	3/4"	Taper	MN35T18ES	22.10	16.19
1/4"	1/2"	Ball Nose	MN35BN14ES	26.01	19.05
1/4"	1/2"	Cylinder	MN35C14ES	26.01	19.05
1/4"	1/2"	Flame	MN35FL14ES	27.86	20.42
1/4"	1/2"	Taper	MN35T14ES	26.01	19.05
1/4"	1/4"	Sphere	MN35S14ES	26.01	19.05
3/8"	1/2"	Dove Tail	MN35DT38ES	29.35	21.51
3/8"	38"	Sphere	MN35S38ES	26.01	19.05
3/4"	1/8"	Rotor Saw	MN35RS34ES	28.42	20.83

Above stocked in coarse grit only - Fine grit available on request

396

SURF PRO 6" x 9" Non-Woven Hand Pads



- Excellent for hand finishing and cleaning of woods, metals and composites
- Ideal for wood finishing, paint prep and general cleaning
- Priced each / sold in standard pack (20) only

Standard Pack	Color	Feature	Abrasive Material	Grade	Order No.	Regular Price	SALE
20	Green	Scouring	Aluminum Oxide	Very Fine	SP22HP69GNVFNA	2.14	1.67
20	Light Gray	Cleaning	Silicon Carbide	Ultra Fine	SP22HP69GYUFNS	2.39	1.76
20	Maroon	General Purpose	Aluminum Oxide	Very Fine	SP22HP69MAVFNA	2.21	1.63
20	Tan	Heavy Duty	Aluminum Oxide	Medium	SP22HP69TNMEDA	3.46	2.53

25138

SURF PRO CBN Face Wheels 6 x 3/4 x 1-1/4"- Type 6A2C

Resin Bond - Plate Mounted



		120			150		
Rim	Depth	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/8"	1/8"	MP556180138	484.76	355.29	MP556180148	507.51	371.95
3/8"	1/8"	MP556180132	747.00	547.47	MP556180142	421.93	309.24
1/2"	1/16"	MP556180232	444.81	325.99	-	-	-
1/2"	1/8"	-	-	-	MP556180247	427.73	313.48
3/4"	1/16"	MP556180337	514.05	376.75	-	-	-
3/4"	1/8"	MP556180338	929.45	681.18	MP556180348	883.86	647.78

660

Abrasive Belt Finishing Sticks

Spring Loaded Tension Belt Holder



- Good for hard to reach areas
- Deburring • Semi Finishing • Polishing
- Metal Finishing • Pattern Making • Mold Finishing • Welding Cleanup
- Can be used with water and solvents

Overall Length	Belt Grit	Order No.	Regular Price	SALE
6"	320	MJ642503	6.68	4.89

158

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	36.40	26.68
6"	3/4"	1"	60	SP01063041A060M	45.18	33.11
6"	3/4"	1"	80	SP01063041A080M	36.40	26.68
6"	1"	1"	36	SP01064041A036O	41.90	30.72
6"	1"	1"	60	SP01064041A060M	41.90	30.72
6"	1"	1"	80	SP01064041A080M	52.00	38.11
7"	1"	1"	36	SP01074041A036O	58.60	42.95
7"	1"	1"	60	SP01074041A060M	58.59	42.94
8"	1"	1"	36	SP01084041A036O	78.53	57.55
8"	1"	1"	60	SP01084041A060M	78.51	57.55
8"	1"	1"	80	SP01084041A080M	78.51	57.55

28695

STANDARD ABRASIVES Buff & Blend Quick Change Discs



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

	Medium			Fine			Very Fine		
Diameter	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 1/2"	MM75840212	1.96	1.57	MM75840213	1.90	1.52	-	-	-
2"	MM75840312	2.10	1.68	MM75840313	1.96	1.57	MM75840315	2.00	1.60
3"	MM75840412	3.42	2.74	MM75840413	3.09	2.47	MM75840415	3.09	2.47

25027

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	31.34

689

DESMOND Angle Dressers

- Economic alternative to the brake truing device
- Conditions & dresses diamond & CBN wheels on surface grinders
- Accuracy provided by sealed ball bearings
- For 100 grit or coarser wheel
- Bolts to table or holds on magnetic chuck

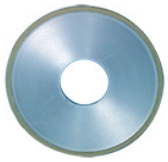


Type	Order No.	Regular Price	SALE
Angle Wheel Dresser	LG5046200	176.93	150.39
Angle Dresser Replacement Wheel	LG5046220	17.33	14.73

334

Diamond Cut-off Wheels

- Type 1A1R - Relieve center resin bond - 1/4" Diamond depth 100 concentration - Long life



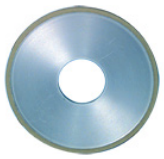
		150			100		
Diameter	Arbor Hole	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	1 1/4"	MP501807549	186.59	136.76	MP501807529	223.58	163.86
6"	1 1/4"	MP501807849	316.90	232.26	MP501807829	316.90	232.26
6"	1 1/4"	MP501807949	325.98	238.91	MP501807929	262.44	192.35

345

SURF PRO Diamond Straight Wheels - 75 Concentration

Resin Bond for Grinding Carbide - Type 1A1 - Straight Wheel

75 Concentration - 1/8" Diamond Depth For Economical Grinding and Long Life
- 100 Grit for chip breaker
- 120 Grit for general purpose
- 150 Grit for semi finish
- For wet or dry application



			120			150		
Diameter	Width	Arbor Hole	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
6"	1/2"	1 1/4"	MP501204735	421.93	309.24	MP501204745	421.93	309.24
6"	1/4"	1 1/4"	MP501204535	259.56	190.24	MP501204545	259.56	190.24
6"	1/8"	1 1/4"	MP501204435	285.11	208.96	MP501204445	285.11	208.96
6"	3/8"	1 1/4"	MP501204635	379.06	277.82	MP501204645	371.69	272.41
7"	1/2"	1 1/4"	MP501205235	473.33	346.90	-	-	-
7"	1/4"	1 1/4"	MP501205035	325.07	238.23	-	-	-
7"	3/8"	1 1/4"	MP501205135	473.33	346.90	MP501205145	471.87	345.84

672

Grier Mounted Point Kits

Tool Room Assortment

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



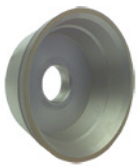
Spindle Diameter	Number of Pieces	Order No.	Regular Price	SALE
1/8"	100 Piece Assortment	ML50MP100	139.24	102.06
1/4"	50 Piece Assortment	ML50MP50	139.24	102.06

23264

SURF PRO Diamond Flaring Cup - Type 11V9

Resin Bond Diamond on Periphery & Face For Tool & Cutter Grinders

- Any Grit Size, Concentration or Diamond Depth Not Shown - Ask for a Quotation



					100			120			150		
Diameter	Width	Arbor Hole	Concentration	Depth	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3 3/4"	1 1/2"	1 1/4"	100	1/16"	MP5011500227	287.15	210.46	-	-	-	-	-	-
3 3/4"	1 1/2"	1 1/4"	100	1/8"	-	-	-	MP5011500238	243.70	178.60	MP5011500248	243.70	178.60
3 3/4"	1 1/2"	1 1/4"	75	1/8"	-	-	-	MP5011500235	299.47	219.49	MP5011500245	295.64	216.67
5"	1 3/4"	1 1/4"	100	1/8"	MP5011500328	345.65	253.32	MP5011500338	345.10	252.92	MP5011500348	342.73	251.20
5"	1 3/4"	1 1/4"	75	1/8"	-	-	-	MP5011500335	325.74	238.73	MP5011500345	328.45	240.73

670

SURF PRO Type 62AC for Baldor Grinder

- Any Grit Size, Concentration or Diamond Depth Not Shown - Ask for a Quotation



					120			150		
Diameter	Width	Arbor Hole	Concentration	Depth	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
6"	1"	1 1/4"	100	1/16"	MP506180537	427.73	313.48	MP506180547	405.87	297.47
6"	1"	1-1/4"	100	1/8"	MP506180538	481.36	352.79	MP506180548	416.07	304.92

669

PRM PRO Tweco® Gas Diffusers

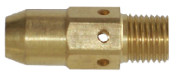
- These OEM quality Tweco® style consumables are interchangeable with Tweco® & Tweco® Weldskill
- For use with Tweco® style MIG guns Classic & Weldskill®
- Product is marked with part number or size for easy identification
- Brands mentioned are for reference only and are the registered trademarks of their respective companies. Distributor and the Mfg. are not affiliated with these companies.



WE103550



WE1052FN



WE1054A

Style	Minimum Wire Outside Diameter	Maximum Wire Outside Diameter	Model No	Standard Pack	Order No.	Regular Price	SALE
Tweco 11 Series Tips	.045"	.023"	35-50	5	**WE103550**	5.14	**4.10**
Tweco 14 Series Tips	.045"	.030"	52	5	**WE1052**	5.74	**4.58**
Tweco 14 Series Tips	All	All	52FN	5	**WE1052FN**	6.76	**5.40**
Tweco 14 Series Tips	-	-	54A	5	**WE1054A**	2.98	**2.38**

21918

TITAN Solar Powered Auto Dark Welding

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



Color	Order No.	Regular Price	SALE
Auto Darkening	**KP8241265**	245.84	**196.31**
Auto Darkening	**KP8241266**	245.84	**196.31**
Auto Darkening	**KP8241279**	245.84	**196.31**
Fixed Front	**KP8241283**	245.84	**196.31**
Auto Darkening	**KP8241288**	245.84	**196.31**
Auto Darkening	**KP8241289**	245.84	**196.31**
Auto Darkening	**KP8241290**	245.84	**196.31**
Auto Darkening	**KP8241295**	245.84	**196.31**

25292

TITAN Auto Darkening Welding Helmet

- Durable, light weight nylon material
- Protects against UV and infrared radiation in variable shades from DIN9 to DIN1
- Lens automatically darkens when arc is struck and returns to normal when welding stops
- Powered by solar cells with battery back-up
- 3.85" x 1.70" Viewing area
- Switching time: Light to Dark 0.000033 seconds



Color	Order No.	Regular Price	SALE
Red	**KP8241260**	219.63	**175.38**

3180

Industrial Air Interchange Couplers & Connectors

15 Series

- A drag guard protects the sliding sleeve from being snagged or uncoupled
- Six stainless steel locking balls provide greater surface contact with the connector for a more balanced & secure connection
- All 1/4" body couplers are brass



LX50150



LX50152



LX50155

FNPT, Interchange Coupler			
Thread Size	Order No.	Regular Price	SALE
1/4"	LX50150	12.96	10.35

MNPT, Interchange Coupler			
Thread Size	Order No.	Regular Price	SALE
1/4"	LX50152	12.71	10.15
3/8"	LX50155	16.76	13.38

23000

Pedestal Spring Rewind Reels

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



Spring Driven



EZ-Coil

EZ-Coil							
Hose ID	Hose Length	Width	Length	Height	Order No.	Regular Price	SALE
1/4"	25 Feet	17-1/8"	18-5/8"	7"	LT55EZPLP125	558.54	446.01
3/8"	25 Feet	13-1/2"	14-7/8"	8-1/2"	LT55EZPLP325	592.49	473.12
3/8"	50 Feet	13-1/2"	14-7/4"	8-1/2"	LT55EZPLP350	771.47	616.04
1/2"	50 Feet	15-1/4"	16-1/2"	6"	LT55EZPLP450	854.79	682.58

Spring Driven							
Hose ID	Hose Length	Width	Length	Height	Order No.	Regular Price	SALE
1/4"	25 Feet	19-1/2"	21-1/4"	10-1/4"	LT55PLP125	432.02	344.98
3/8"	25 Feet	19-1/2"	21-1/4"	8-1/4"	LT55PLP325	465.97	372.09
3/8"	50 Feet	24"	25-1/2"	9-3/8"	LT55PLP350	644.95	547.20
1/2"	50 Feet	19-1/2"	21-1/4"	9-3/8"	LT55PLP450	728.27	581.55

2073

DREMEL® Full Line Of MultiPro Accessories Tungsten Carbide Cutters

1/8" Shank



Size	Order No.	Regular Price	SALE
1/8"	PH509901	16.60	13.26
3/32"	PH509902	16.63	13.28
1/8"	PH509903	16.60	13.26
3/32"	PH509904	16.63	13.28
1/8"	PH509905	16.60	13.26
1/8"	PH509906	16.63	13.28
1/8"	PH509909	16.63	13.28
1/8"	PH509910	16.63	13.28

2127

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	95.75	76.46
Straight	All ball bearing construction, lever throttle for positive speed control, complete with collet wrenches	22,000	4 CFM	1/4" NPT	PJ60DG1	56.53	45.14
Straight	Extended heavy duty spindle, lever type throttle	22,000	16 CFM	1/4" NPT	PJ60RG38A	185.15	147.85

22669

FLORIDA PNEUMATIC Air Powered Cut Off Tools

- 1/4" Collet
- 1/4" Air inlet
- 3/8" Rec hose size
- 90 PSI rec air pressure
- One year warranty



Features and Benefits	Exhaust Type	Maximum RPM	Average Air Consumption	Order No.	Regular Price	SALE
Straight handle design, ideal for hard to reach areas, large paddle switch	Front	20,000	4 CFM	PF52FP3751	141.32	112.85
Mini angle grinder, compact design, heavy-duty ball bearing construction and bevel gears	Rear	25,000	4 CFM	PF52FP759R	301.98	241.14

23209

GUARDAIR CORPORATION Long Series Air Guns

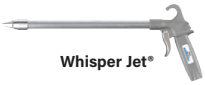
- 1/4" NPT inlet
- Maximum operating pressure 120 PSI
- Ideal for reaching inaccessible or difficult to reach locations
- Meets OSHA standards
- Purolator dimensional weight shipping rates apply
- **Blo-Hard Safety Air Gun - Model 900LJ** compact, thumb lever operated air gun fits comfortably in the palm of the hand
- **Long John® Safety Air Gun - Model 75LJ** venturi tip increases thrust & limits static pressure to less than 30 psi when tip is blocked
- **Whisper Jet® Air Gun - Model 80LJ** operates 6-20 dB quieter than conventional air guns



Blo-Hard Air Blow Gun



Long John®



Whisper Jet®

	Long John®			Whisper Jet®			Blo-Hard Air Blow Gun		
Extension Size	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
6"	LW5575LJ6	54.24	43.39	LW5580LJ6	58.35	46.68	LW55900LJ6	47.34	37.87
12"	LW5575LJ12	56.86	45.49	LW5580LJ12	60.98	48.78	LW55900LJ12	49.45	39.56
18"	LW5575LJ18	59.52	47.62	LW5580LJ18	63.62	50.90	LW55900LJ18	51.55	41.24
24"	LW5575LJ24	62.15	49.72	LW5580LJ24	66.24	52.99	LW55900LJ24	53.66	42.93
36"	LW5575LJ36	67.41	53.93	LW5580LJ36	71.51	57.21	LW55900LJ36	57.88	46.30
48"	LW5575LJ48	72.68	58.14	LW5580LJ48	76.77	61.42	LW55900LJ48	62.09	49.67
60"	LW5575LJ60	77.96	62.37	LW5580LJ60	82.06	65.65	LW55900LJ60	66.29	53.03
72"	LW5575LJ72	83.21	66.57	LW5580LJ72	87.32	69.86	LW55900LJ72	70.50	56.40

2218

Legacy Blow Guns

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



Tip Type	Order No.	Regular Price	SALE
Extension Reach	LX55AG2	33.53	26.77
Safety	LX55AG7	11.83	9.45

2239

PRM PRO 9/16" Diamond Comfort Mats

- Industrial grade anti-fatigue mat
- Economical solution for improving workers' comfort and productivity
- Surface resists common fluids
- Manufacturer's 4 year limited warranty against wear and delamination
- Beveled edges on all mats







		Black/Yellow			Black		
Length	Width	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3 feet	2 feet	**RV6610205**	78.06	**62.33**	**RV6610200**	65.59	**52.38**
5 feet	3 feet	**RV6610235**	195.15	**155.83**	**RV6610230**	163.93	**130.90**
10 feet	3 feet	**RV6610225**	390.26	**311.63**	**RV6610220**	327.87	**261.81**
75 feet	2 feet	**RV6610215**	1,950.16	**1557.26**	**RV6610210**	1,638.34	**1308.26**
75 feet	3 feet	**RV6610245**	2,925.24	**2335.89**	**RV6610240**	2,457.50	**1962.39**
75 feet	4 feet	**RV6610255**	3,900.33	**3114.53**	**RV6610250**	3,276.67	**2616.52**

2927

ProFlex® Back Supports & Gel Foam Knee Pad

ProFlex® 100 Economy Back Support

- Durable 280D spandex
- Rubber-tracked webbing
- Adjustable two-stage closure
- Adjustable 1-1/4" knit elastic suspenders are detachable



Back Support

ProFlex® 350 Gel 2 Pc. Kneepad

- 12mm NBR gel padding
- Cut-resistant, abrasion-resistant and non-marring rubber composite pad
- Slip-resistant durable nylon-rubber
- 1680D ballistic nylon outer shell
- Breathable neoprene stretch strap
- **One size fits all**



Knee Pads

Back Support			
Size	Order No.	Regular Price	SALE
Medium	**LF65100M**	47.28	**37.75**
Large	**LF65100L**	47.28	**37.75**
X-Large	**LF65100XL**	47.28	**37.75**
2X-Large	**LF65100XXL**	47.28	**37.75**

Knee Pads			
Size	Order No.	Regular Price	SALE
One Size	**LF65350**	86.02	**68.69**

23179

MCR Faceshields & Headgear

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



Headgear							
Shield Width	Shield Height	Shield Thickness	Shield Material	Width	Order No.	Regular Price	SALE
-	-	-	-	6 1/2"|7 3/4"	**KB85103**	17.99	**14.37**

Face Shield							
Shield Width	Shield Height	Shield Thickness	Shield Material	Width	Order No.	Regular Price	SALE
15 1/2"	8"	0.040"	Polycarbonate	-	**KB85181640**	5.84	**4.66**
15 1/2"	10"	0.040"	Polycarbonate	-	**KB85101640**	6.13	**4.90**

2535

MCR 4500 Split Cow Welders Glove

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



Size	Order No.	Regular Price	SALE
Large	**KB514500**	22.41	**17.90**

30762

MCR 7100 Cotton Jersey Glove

- ersey 9 oz.
- Clute pattern
- For general purpose work



Size	Material	Color	Order No.	Regular Price	SALE
Large	Cotton Jersey	Black	**KB51BJ**	1.97	**1.57**

30776

PRM PRO Economy Driver's Gloves

- Regular grade split cowhide leather
- Elastic back for comfortable fit around wrist
- Straight thumb pattern
- Color: russet



Size	Order No.	Regular Price	SALE
Large	**KB38800L**	7.55	**6.03**
Medium	**KB38800M**	7.55	**6.03**
X-Large	**KB38800XL**	7.69	**6.14**

30719

70062 Thermal Leather Driver

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



Size	Order No.	Regular Price	SALE
Small	**LW0110515**	15.05	**12.02**
Medium	**LW0110520**	15.05	**12.02**
Large	**LW0110525**	15.05	**12.02**
X-Large	**LW0110530**	16.09	**12.85**

30891

Koehler BrightStar LED Lighthawk Gen II Lanterns



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

Battery Size	Body Color	Order No.	Regular Price	SALE
LI battery, 4 Cell, AC Charger	Orange	**KN0107610**	430.54	**344.43**
LI battery, 4 Cell, AC & DC Chargers	Orange	**KN0107610U**	455.04	**364.03**
LI battery, 4 Cell, AC Charger	Black	**KN0107611**	430.54	**344.43**
LI battery, 4 Cell, AC & DC Chargers	Black	**KN0107611U**	455.04	**364.03**
LI battery, 4 Cell, AC Charger	Yellow	**KN0107612**	430.54	**344.43**
LI battery, 4 Cell, AC & DC Chargers	Yellow	**KN0107612U**	455.04	**364.03**
LI battery, 4 Cell, DC Charger	Orange	**KN0107630**	430.54	**344.43**
LI battery, 4 Cell, DC Charger	Black	**KN0107631**	430.54	**344.43**
LI battery, 4 Cell, DC Charger	Yellow	**KN0107632**	430.54	**344.43**
LI battery, 4 Cell, 220V AC Charger	Orange	**KN0107650**	430.54	**344.43**
LI battery, 4 Cell, 220V AC Charger	Black	**KN0107651**	430.54	**344.43**
LI battery, 4 Cell, 220V AC Charger	Yellow	**KN0107652**	430.54	**344.43**
LI battery, 4 Cell, Direct Wire	Orange	**KN0107670**	430.54	**344.43**
LI battery, 4 Cell, Direct Wire	Black	**KN0107671**	430.54	**344.43**
LI battery, 4 Cell, Direct Wire	Yellow	**KN0107672**	430.54	**344.43**

2743

WYPALL gojo SCRUBS Waterless Cleaning Towels & Wipes

WYPALL Features:

- Dual texture wiper is smooth for wiping one side and tough for scrubbing on the other

ROUGH TOUCH SCRUBS IN-A-BUCKET

Features:Waterless Hand Cleaner Towels

- Heavy duty hand cleaner towels with proven pumice performance
- Loosens, dissolves & absorbs dirt, grease, oil, paint, adhesive, tar, caulk & more
- Antibacterial, contains Triclosan

Graffiti & Spray Paint Remover Towels

- One step graffiti removal system
- Abrasive, non-scratching removers
- Great for use on lockers, signs, doors, elevators and phone booths
- **Hazard Code: 03**







GoJo Scrubbing Wipes:

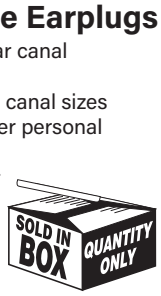
- Removes tough grease, tar and adhesives
- Extra large wipes contain skin conditioners to help prevent dryness and irritation.
- 72 or 170 count available

BrandName	ProductName	Order No.	Regular Price	SALE
Kimberly-Clark	WYPALL BUCKET OF 75 WIPES	**LM5591371**	37.64	**30.06**
Scrubs	BUCKET OF 72 TOWELS	**LM54422C072**	33.57	**26.81**
GoJo	Scrubbing Wipes - 170 Count Bucket	**LP55639802**	79.80	**63.72**
GoJo	Scrubbing Wipes	**LP55639606**	38.15	**30.46**

3197

3M Disposable Earplugs

- Soft foam seals the ear canal comfortably
- Fits wide range of ear canal sizes
- Can be used with other personal protective equipment
- Available in corded or uncorded
- Sold per pack priced per each




KB3512063


KB3511033


KB351100


KB351110

Noise Reduction Rating	Standard Pack	Order No.	Regular Price	SALE
29 dB	200	**KB351100**	0.24	**0.19**
33 dB	200	**KB3511033**	0.45	**0.36**
29 dB	100	**KB351110**	0.53	**0.42**
33 dB	200	**KB3512063**	0.25	**0.21**

22583

Price Per Each Sold By Box

WEILER Counter Dusters

- Tampico and synthetic dusters are 8" long with 2-1/2" fill in a wood block
- Orange duster is 9" long with 2-1/2" fill in a durable structural plastic block



Style	Bristle Size	Bristle Color	Overall Length	Order No.	Regular Price	SALE
General Purpose	2 1/2"	Black	8"	**LD5325251**	16.08	**12.84**
Oil Resistant|Water Resistant|Hand	2 1/2"	Black	8"	**LD5325252**	12.77	**10.20**
Oil Resistant|Water Resistant	2 1/2"	Orange	9"	**LD5342213**	17.20	**13.74**

3210

WEILER Truck Wash Brush

- Protective bumper
- Foam block
- Two handle holes (one for tapered handles, the other for threaded or fountain tube)
- Handles NOT included, order handles separately



Brush Length	Brush Width	Bristle Size	Bristle Material	Order No.	Regular Price	SALE
9 1/2"	2 3/4"	3"	Polystyrene	**LD5344510**	38.76	**30.95**

3220

STREAMLIGHT Stylus® LED Penlights



- Style, convenience and a 100,000-hour bulb
- **Bulb:** high intensity 5mm LED, 11 lumens
- **Run time:** max. up to 60 hours of continuous use
- **Body:** anodized machined aluminum housing
- **Battery:** 3-AAAA (included)
- **Size:** 6-1/4"
- **Features:** non-slip grip, waterproof, individually serialized, pocket clip, and glare guard protector

LED Color	Order No.	Regular Price	SALE
White	**KA5765018**	44.64	**35.65**
Blue	**KA5765022**	44.64	**35.65**

25101

Koehler BrightStar Intrinsically Safe Razor LED



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

Body Color	Order No.	Regular Price	SALE
Hi Vis Green	**KN0160101**	49.46	**39.50**
Orange	**KN0160102**	49.46	**39.50**

2744

PRM PRO LED Industrial Work Light



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

Order No.	Regular Price	SALE
KE75JWL5514L	292.88	**234.30**

2945

PRECISION BRAND Hot Melt Coating

- Strippable protective coating protects tools, gauges, and metal parts from nicks, corrosion, and abrasions during storage and shipping
- Packaged in convenient 5 lb. bags
- Easy to use - coating is presliced into manageable pieces
- Poly bag packaging means easy handling and storage
- Set time is less than 60 seconds
- To remove, coating peels right off
- Melting temperature: Type 1= 340-350°F



Color	Order No.	Regular Price	SALE
Amber	**MA5243005**	231.83	**185.12**
Clear	**MA5243010**	231.83	**185.12**
Red	**MA5243015**	231.83	**185.12**

Color	Order No.	Regular Price	SALE
Green	**MA5243020**	231.83	**185.12**
Blue	**MA5243025**	231.83	**185.12**

29616



LiftAll® Tuff Edge® Polyester Web Slings

- Abrasion and cut resistant blue polymer edges
- Silver body yarn treatment to resist abrasion
- Proven sling web construction with red core warning yarns
- Tuff-Tag provides legible identification for the life of the sling
- 2-Ply material



Type 3, Web Sling



Type 4, Web Sling

Type 3, Web Sling												
	Length - 10 feet			Length - 12 feet			Length - 8 feet			Length - 6 feet		
Width	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1″	SE82EE2801T10	63.39	50.62	SE82EE2801T12	72.16	57.62	SE82EE2801T8	54.64	43.63	-	-	-
2″	SE82EE2802T10	102.73	82.03	SE82EE2802T12	118.57	94.68	SE82EE2802T8	86.86	69.36	-	-	-
3″	SE82EE2803T10	163.53	130.58	SE82EE2803T12	189.20	151.08	SE82EE2803T8	137.87	110.09	SE82EE2803T6	112.24	89.63
4″	SE82EE2804T10	217.60	173.76	SE82EE2804T12	250.84	200.30	SE82EE2804T8	184.38	147.23	SE82EE2804T6	151.14	120.69

Type 4, Web Sling														
	Length - 10 feet			Length - 3 feet			Length - 4 feet			Length - 6 feet			Length - 8 feet	
Width	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1″	SE83EE2801T10	63.39	50.62	SE83EE2801T3	32.72	26.13	SE83EE2801T4	37.10	29.63	SE83EE2801T6	45.86	36.62	SE83EE2801T8	54.64	43.63
2″	SE83EE2802T10	102.73	82.03	SE83EE2802T3	47.21	37.70	SE83EE2802T4	55.15	44.04	SE83EE2802T6	71.01	56.70	SE83EE2802T8	86.86	69.36

23706

PRM PRO Steel Barrel Pump - Lever Type



- Heavy steel pump body with ribbed section pump head
- Fits15 to 55 gallon drums with built in 1-1/2″ and 2″ bung opening
- Includes curved discharge metal pipe and telescoping steel tube assembly
- Recommended for use with oil based fluids, heating oils, motor oils, heavy & light oils, diesel & kerosene
- Pump not suited for use with water

Order No.	Regular Price	SALE
LC727765	90.50	72.27

5483

PRM PRO Adjustable Shop Stool with Backrest



- Matte black powder coat finish
- Padded 14″ vinyl seat features a backrest for comfort
- Backrest adjusts and can be removed when desired
- Stool rotates 360°
- Seat height adjusts from 29″ to 33″ easily with just one hand
- Load capacity 300 lbs
- Limited lifetime warranty against manufacturer defects
- Ships Purolator

Height	Order No.	Regular Price	SALE
38″-43″	RZ457000	173.60	138.62

Save while supplies last

5465

PRM PRO Cargo Tool Bags with Zip Closure



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

Length	Width	Height	Order No.	Regular Price	SALE
18″	9″	11″	LC707697	51.31	40.97
24″	9″	12″	LC707699	57.19	45.67

5487

Vestil Heavy Duty Drum Dollies



- Transports 55 gallon drums
- 4 & 8 wheel models
- 2000 lbs capacity
- Purolator dimensional weight shipping rates apply

For Use With	Drum Capacity	Order No.	Regular Price	SALE
55 Gallon Drums	2,000 lbs	RV54DRUMHD	240.76	216.68
55 Gallon Drums	2,000 lbs	RV54OCTO55	245.11	220.60

5576

360° Digital Level / Protractor



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

Model No	Accuracy	Type	Order No.	Regular Price	SALE
06LP360RW	0.2°	360° Digital Level Protractor with Wireless Connect	**PC2306L-P360RW**	184.16	**147.06**

4770

Amprobe ST-102B Receptacle Tester with GFCI



Easily check and confirm proper wiring of electrical receptacles with the Amprobe ST-102B receptacle testers. Quickly confirm that GFCI breakers are properly wired for protection.

- Test GFCI breakers for proper wiring and operation
- Easy to read light indicators show common wiring problems
- Confirm GFCI socket is wired for protection
- GFCI circuit trips to confirm tester is working
- For use on 110 to 125 V ac

Order No.	Regular Price	SALE
FL0512305	37.48	**33.73**

29894

Euro-Cal IV Electronic Caliper



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

Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	**NA55541003301**	210.81	**165.11**
0-12" / 0-300 mm	**NA5554100332**	320.00	**304.00**

3532

Dial Depth Gage



- Range: 0-22"
- Indicator resolution: .0005"
- Base length: 4"
- Includes 10 attachments (6 extension rods and 4 feeler points)
- Protective case included
- Procheck 1 Year Warranty

BrandName	Order No.	Regular Price	SALE
Fowler	**NA5552125006**	330.53	**264.17**
Procheck	**PC21DG0221BDF**	135.73	**108.38**

† Black dial face

3749

Magnetic Digital Pocket Thermometer



- Magnet inside base of probe to easily attach to vents
- Range -40 to 572-degrees F (-40 to 300-degrees C)
- User selectable Fahrenheit and Celsius temperature measurements
- Backlit display for easy viewing in low light
- Not a medical device; thermometer is NOT intended for use on people or animals.
- Max/Min, Hold and Average functions
- Auto-power off after 15 minutes conserves battery life
- 3 inch stainless steel probe with removable protective sheath that doubles as a handle
- Lightweight, compact tool with pocket clip provides easy storage and quick access

ManufacturerNo	Order No.	Regular Price	SALE
ET10	**KP6016220**	52.58	**41.99**

30011

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**	87.67	**70.01**
0.0015"	6"	180"	**MA5216705**	87.67	**70.01**
0.010"	6"	180"	**MA5216710**	58.44	**46.67**
0.012"	6"	180"	**MA5216715**	61.96	**49.48**
0.015"	6"	180"	**MA5216725**	59.15	**47.23**
0.002"	6"	180"	**MA5216740**	56.53	**45.14**
0.020"	6"	180"	**MA5216750**	70.04	**55.93**
0.025"	6"	180"	**MA5216760**	71.74	**57.29**
0.003"	6"	180"	**MA5216765**	47.94	**38.28**
0.031"	6"	180"	**MA5216775**	76.73	**61.27**
0.004"	6"	180"	**MA5216780**	52.53	**41.95**
0.005"	6"	180"	**MA5216785**	50.99	**40.72**
0.006"	6"	180"	**MA5216790**	56.57	**45.17**
0.007"	6"	180"	**MA5216795**	69.92	**55.83**
0.008"	6"	180"	**MA5216800**	68.45	**54.66**

24417

PROCHECK Economy Depth Micrometers

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



Measuring Range	Base Length	Order No.	Regular Price	SALE
0-4"	2 1/2"	NB60DM042	151.00	119.26
0-6"	4"	NB60DM064	141.76	111.97

28699

PROCHECK Round Bar Center Finder

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



Order No.	Regular Price	SALE
NE60RBCF38	15.22	9.87

4790

PROCHECK Outside Micrometers

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



0.001"				
Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
0"	1"	NB60CM001	46.98	32.47

0.0001"				
Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
0"	1"	NB60CRM1	53.37	36.89
1"	2"	NB60CRM2	87.08	60.18
2"	3"	NB60CRM3	71.50	49.41
3"	4"	NB60CRM4	79.16	54.71
4"	5"	NB60CRM5	75.50	52.18
5"	6"	NB60CRM6	82.60	57.08
6"	7"	NB60CRM7	125.20	86.53
7"	8"	NB60CRM8	146.50	101.25
8"	9"	NB60CRM9	193.82	133.95
9"	10"	NB60CRM10	217.50	150.31
10"	11"	NB60CRM11	229.33	158.49
11"	12"	NB60CRM12	243.54	168.31

4733

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	151.41	121.01
0-6"	NA5552008707	151.41	120.98
0-8"	NA5552008708	181.80	145.41
0-12"	NA5552008712	244.45	219.07

3708

Starrett No. EC799A & EC799B Basic Electronic Calipers

No SPC Output



- Resolution .0005" / 0.01mm
- Lightweight, ergonomic design
- Zero at any position
- Automatic shut-off after 30 minutes of non-use
- Last measuring position retained when shut off
- Hardened stainless steel body
- Integrated depth rod on all sizes
- Lock screw and fine adjustment thumb wheel
- With case

Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	MV7000142	269.65	215.72
0-6" / 0-150 mm	MV7000143	280.00	252.22
0-6" / 0-150 mm	MV7000144	447.02	379.27
0-6" / 0-150 mm	MV7072665	371.00	334.35
0-12" / 0-300 mm	MV7000148	558.00	473.68
0-8" / 0-200 mm	MV7000145	346.00	293.70
0-8" / 0-200 mm	MV7072685	491.00	442.28
0-8" / 0-200 mm	MV7000146	410.10	369.09
0-8" / 0-200 mm	MV7000147	435.00	392.30
0-12" / 0-300 mm	MV7000149	636.00	573.68
0-12" / 0-300 mm	MV7000150	777.24	699.52

† With standard letter of certification

5090

Mitutoyo Coolant Proof Micrometers

Series 293 - with Dust/Water Protection Conforming to IP65 LevelNo Data Output



- IP65 protection level, enabling use in environments exposed to cutting oil, etc
- **Note:** anti-corrosion treatment is required after use
- .00005"/0.001mm Resolution
- Carbide tipped measuring faces
- Uses SR44 battery (included)
- Auto power ON/OFF function
- Standard included on sizes over 1"/25mm
- Supplied in fitted case
- Replacement battery order number is KA56357BP3

Measuring Range	Thimble Type	Accuracy	Order No.	Regular Price	SALE
0"-1" / 0 mm-25.4 mm	Ratchet	±.0.00005"	**MT80293-340-30**	389.92	**311.94**
1"-2" / 25.4 mm-50.8 mm	Ratchet	±.0.00005"	**MT80293-341-30**	428.91	**343.13**
2"-3" / 50.8 mm-76.2 mm	Ratchet	±.0.00005"	**MT80293-342-30**	536.89	**429.51**
3"-4" / 76.2 mm-101.6 mm	Ratchet	± 0.0001"	**MT80293-343-30**	641.86	**513.49**

4155

PROCHECK PREMIUM Double Squares with 4R Chrome



- Blades: Heavy duty hardened, precision ground satin chrome
- Easy to read marked increments
- Made to US Standard Accuracy and Squareness
- Comes with storage case with foam insert
- 1 Year Warranty

Blade Size	Fits	Order No.	Regular Price	SALE
4"	2-1/2" Base	**PC23DS44**	37.79	**30.18**
6"	3-3/4" Base	**PC23DS64**	59.49	**47.50**

4556

PROCHECK 12" Telescoping Gages



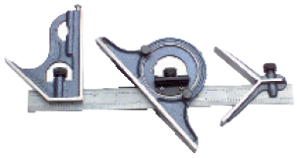
- Measure inside diameter
- Long handles for extra depth applications
- Spring loaded plunger expands within the bore
- Knurled clamp

Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
5/16"	1/2"	**PC24TSG1P12**	24.21	**15.54**
1/2"	3/4"	**PC24TSG2P12**	24.21	**15.54**
3/4"	1 1/4"	**PC24TSG3P12**	24.21	**15.54**
1 1/4"	2 1/8"	**PC24TSG4P12**	32.35	**20.76**
2 1/8"	3 1/2"	**PC24TSG5P12**	32.33	**20.75**
3 1/2"	6"	**PC24TSG6P12**	32.31	**20.73**

4368

PROCHECK 12" Combination Square Sets

Sets consist of:



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

Number of Pieces	Order No.	Regular Price	SALE
2	**NB60CS122**	50.41	**39.82**
3	**NB60CS123**	63.56	**50.20**
4	**NB60CS124**	115.98	**91.61**

4367

PRECISION BRAND 20 Pc. "The Big" Poc-Kit® Feeler Gage Assortment



- 12" 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, .025"/.635mm, .030"/.762mm

Order No.	Regular Price	SALE
MA5219990	217.64	**173.79**

1476

PROCHECK PREMIUM Dial Test Indicators - .030" Range, .0005" Graduation



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

Dial Size	Dial Color	Order No.	Regular Price	SALE
1 1/4"	Black	**PC21TI0301035B**	113.53	**90.66**
1 1/4"	White	**PC21TI0301035W**	113.51	**90.64**
1 1/2"	Black	**PC21TI0301505B**	114.65	**91.55**
1 1/2"	White	**PC21TI0301535W**	114.65	**91.55**

4541

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	98.63	78.76

4829

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	196.53	156.99
0-1" / 0-25MM	NA5554520255	173.56	138.75
0 - 1" / 0 - 25mm	NA5554520260	199.51	159.24

3654

PROCHECK Premium Quill Clamp Indicator Holder

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



Order No.	Regular Price	SALE
PC21QC1	97.51	77.86

4775

Mitutoyo Magnetic Bases

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



Features	Order No.	Regular Price	SALE
Standard	MT807010S	230.95	184.76
Flexible Arm	MT807012-10	356.92	285.54

4168

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	44.34	35.41

4713

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	227.00	192.12

5079

Torpedo Billet Level



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

Model No	Order No.	Regular Price	SALE
935RB	**KP6016175**	64.23	**51.29**

30017

Lighted Torpedo Billet Level

Rare Earth Magnet



- Level's large, bright LED high-definition vials are easy to read in any lighting condition
- Patented magnet track prevents powerful Rare Earth magnets from falling out
- Large, easy-to-read high-visibility vials at 3 angles: level, 90, and 45 degrees
- Large top-view vial windows enable easy readability from multiple angles
- High-visibility orange professional-grade billet aluminum body is easy to see on conduit and at jobsite
- 3-minute auto shut-off saves battery life
- V-Groove fits contour of conduit and pipe
- Tapered nose easily pushes into pockets
- Water and impact resistant

Model No	Order No.	Regular Price	SALE
935RBLT	**KP6016180**	92.37	**73.76**

30010

Digital Pocket Thermometer



- User selectable Fahrenheit and Celsius temperature measurements
- Range -40 to 482-degrees F (-40 to 250-degrees C) with 0.1 degree resolution
- Backlit display for easy viewing in low light
- Max/Min, Hold and Average functions
- Not a medical device; thermometer is NOT intended for use on people or animals.
- Auto-power off after 15 minutes conserves battery life
- 3-Inch stainless steel probe with protective sheath that also acts as a handle
- Lightweight, compact tool with pocket clip provides easy storage and quick access

ManufacturerNo	Order No.	Regular Price	SALE
ET05	**KP6016215**	38.86	**31.03**

30005

Individual Edge & Center Finders

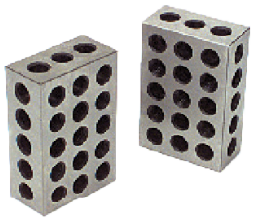


- Edge finders accurately locate working edges, shoulders, grooves, center points and scribed lines
- Hardened and centerless ground to precision tolerances

Style	End Type	Shank	Tip Diameter	Order No.	Regular Price	SALE
Edge	Single End	1/2"	0.500"	**NE60083**	8.19	**5.72**
Edge	Double End	1/2"	0.200" x 0.500"	**NE60084**	8.92	**6.23**
Edge	Single End	3/8"	0.200"	**NE60085**	8.44	**5.90**
Edge/Center	Double End	1/2"	0.200" x Point	**NE60086**	12.61	**8.81**
Edge/Center	Double End	3/8"	0.200" x Point	**NE60087**	10.25	**7.16**
Edge	Single End	1/2"	0.200"	**NE60088**	8.92	**6.23**
Center	Single End	3/8"	Point	**NE60089**	8.40	**5.87**
Center	Single End	1/2"	Point	**NE60090**	10.14	**7.08**

4650

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**	33.60	**21.56**
25 mm	50 mm	75 mm	**NM52E25M**	56.57	**36.30**
2"	4"	6"	**NM52PR246**	338.42	**217.18**

Tri Block Set					
Overall Width	Overall Length	Overall Height	Order No.	Regular Price	SALE
1"	2"	3"	**NM52PR123**	77.15	**49.51**

4371

Starrett Magnetic Bases

657 Series



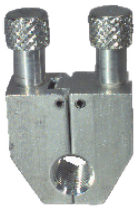
Fixed Post Indicator Holder Features:
- Large 1-15/16 x 1-5/8 x 1-7/8" base
- 3 Precision ground magnetic contact surfaces
- V-Step holds base to arbors, shafts & chucks
- Push button on/off switch

Flex-O-Post Indicator Holder
- All features above plus flex arm for difficult positioning

Model No	Order No.	Regular Price	SALE
657AA	**MV7052743**	364.00	**309.16**
657T	**MV7052760**	546.52	**437.22**

5083

Quick Quill Stop



- Fast On-Off clip action
- Easy and rapid quill depth setting
- Rigid and positive clamping
- Increase productivity - reduce cost
- Fits all Bridgeport type mills or any 1/2-20 stop rod

Order No.	Regular Price	SALE
NE60QS1	18.58	12.05

6343

Starrett 91 Series Straight Tap Wrenches

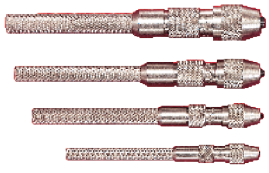


- Made of rugged steel
- Well proportioned and easy to handle
- Properly tempered gripping surfaces will firmly hold square or round shanks
- The plunger, operated by the knurled sleeve, backs off the instant pressure is removed from the sleeve

Size	Right Hand Thread Length	Order No.	Regular Price	SALE
1/16" to 1/4"	6"	MV7050419	97.00	81.70
3/16" to 1/2"	9"	MV7050420	134.00	113.72
1/4" to 5/8"	12"	MV7050421	218.00	184.39
5/16" to 3/4"	16"	MV7050422	294.00	249.54

25070

Starrett 240 Series Pin Vises



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

Capacity	Style	Order No.	Regular Price	SALE
0.010"-0.055"	Single End	MV7051136	44.50	37.54
0.025"-0.075"	Single End	MV7051137	54.00	45.83
0.045"-0.135"	Single End	MV7051138	60.00	50.24
0.110"-0.200"	Single End	MV7051139	65.00	54.66
0.010"-0.200"	4 piece set in Protective Case	MV7051140	231.00	195.44

5088

MAG-MATE Inspection Tool Kits



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

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

Set Includes	Length	Order No.	Regular Price	SALE
Swivel Headed Retriever and 3X Magnifier	7 1/2"	NE70MMK204	85.81	68.52
Lighted Magnet pick-up tool, 4-Jaw, 7/16" dia., 8-3/4" Mechanical Finger retriever and a Round Magnifying Inspection Mirror	7"	NE70MMK301	132.47	105.78

4046

Fowler Depth Gage

Inch/Metric/Fraction



- Spring loaded and hold measurement button for ease of use
- Super large display
- Range: 0-6" / 0-150mm
- Resolution: .0005"/0.01mm (fractions in 1/64" increments)
- Supplied in shop hardened case

Order No.	Regular Price	SALE
NA5554225555	125.57	99.79

3784

PROCHECK ABSOLUTE Digital Height Gages



- Large easy to read LCD display
- Absolute technology that memorizes origin zero
- Resolution .0005" / 0.01mm
- Accuracy .0015"
- Indication variability .0005" / 0.01mm
- Connect and interactive with Procheck absolute digital indicators
- Optional USB data kit (PC26DCBL5PIN) available
- Compatible with optional wireless adaptor (PC26WT-D1ABS)
- 1 Year Warranty

Total Range	Order No.	Regular Price	SALE
0 - 12" / 0 - 300mm	PC20HG012E	814.59	650.48
0 - 24" / 0 - 600mm	PC20HG024E	1,235.82	986.84

4424

Starrett® Outside Micrometers

Series T444

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



Minimum Measurement	Maximum Measurement	Model No	Order No.	Regular Price	SALE
0"	1"	T444.1XRL-1	**MV7052083**	201.00	**170.04**
1"	2"	T444.1XRL-2	**MV7052084**	246.00	**208.68**
2"	3"	T444.1XRL-3	**MV7052085**	268.00	**227.45**
3"	4"	T444.1XRL-4	**MV7052086**	310.00	**262.79**
4"	5"	T444.1XRL-5	**MV7052087**	335.00	**283.76**
5"	6"	T444.1XRL-6	**MV7052088**	371.00	**314.68**

5142

Drill Stop Sets

- For twist or brad point drills
- Assures exact hole depth
- Prevents damage from excessive drill penetration



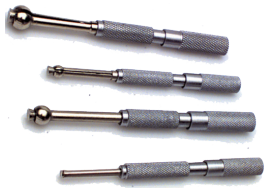
Style	Contains	Order No.	Regular Price	SALE
6 piece	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	**NE50S838**	9.04	**7.22**
7 piece	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	**NE60100**	8.57	**5.99**

22322

PROCHECK Small Hole Gage Set

1/8"-1/2" Range

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



Order No.	Regular Price	SALE
NN40290200	40.00	**25.67**

4802

KLEIN TOOLS 24" Torpedo Level



- Level's adjustable vial allows angle transfer between multiple surfaces
- Patented magnet track keeps powerful rare earth magnets in place
- Top V-Groove fits contour of conduit and pipe
- High visibility vials with reinforced housing
- Durable rubberized end caps increase drop protection at 9.9-Foot (3 m)
- Vial accuracy is +/- 0.029°
- Rubber grip handle for easy transportation and use
- Orange body for visibility so it won't get lost on conduit
- Protrusions on rubber end caps help prevent movement while on walls
- Hang holes on each end for easy storage

Model No	Order No.	Regular Price	SALE
935L	**KP6016170**	119.54	**95.46**

29999

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**	53.13	**42.43**

Available while supplies last

7904

wiha® T-Handle TORX® Drivers

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



Torx Size	Order No.	Regular Price	SALE
T9	**KN5436409**	11.53	**9.21**
T10	**KN5436410**	11.80	**9.42**
T15	**KN5436415**	13.92	**11.12**
T15	**KN5436417**	14.17	**11.31**
T20	**KN5436420**	15.77	**12.59**
T20	**KN5436422**	15.77	**12.59**
T25	**KN5436427**	16.60	**13.26**

8000

LANG TOOLS CAT III Digital Multimeter Kit

- 600V AC/DC, 10A AC/DC
- 32MΩ resistance
- Frequency to 32kHz
- Continuity and diode test
- Temperature to 1400º 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	229.10	**182.94**

3998

MAG-MATE™ Rare Earth Pot Magnets

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

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



Diam-eter	Thread Size	Thick-ness	Maximum Holding Capacity	Style	Order No.	Regular Price	SALE
3/8″	#8-32	1/2″	5 lbs	Two-Pole	**NE7010400**	27.13	**21.66**
1/2″	#10-24	1/2″	10 lbs	Two-Pole	**NE7010405**	29.33	**23.42**
3/4″	#10-24	1/2″	20 lbs	Two-Pole	**NE7010410**	39.73	**31.73**
1″	1/4″-20	1/2″	30 lbs	Two-Pole	**NE7010415**	41.52	**33.15**
1 1/4″	5/16″-18	1/2″	40 lbs	Two-Pole	**NE7010425**	80.23	**64.07**

23795

APEX® Torx® Bits



Tip Size	Drive Size	Overall Length	Model No	Order No.	Regular Price	SALE
T6	1/4″	1″	440-TX-06X	**KW7060170**	7.55	**6.03**
T7	1/4″	1″	440-TX-07X	**KW7060175**	7.55	**6.03**
T8	1/4″	1″	440-TX-08X	**KW7060180**	7.55	**6.03**
T9	1/4″	1″	440-TX-09X	**KW7060185**	7.55	**6.03**
T10	1/4″	1″	440-TX-10X	**KW7060190**	7.06	**5.64**
T15	1/4″	1″	440-TX-15X	**KW7060195**	7.06	**5.64**
T20	1/4″	1″	440-TX-20X	**KW7060200**	7.15	**5.71**
T25	1/4″	1″	440-TX-25X	**KW7060205**	7.15	**5.71**
T27	1/4″	1″	440-TX-27X	**KW7060210**	7.15	**5.71**
T30	1/4″	1″	440-TX-30X	**KW7060215**	7.15	**5.71**
T40	1/4″	1″	440-TX-40X	**KW7060220**	7.15	**5.71**
T45	1/4″	1 1/4″	440-TX-45X	**KW7060225**	11.55	**9.22**
T50	1/4″	1 1/4″	440-TX-50X	**KW7060230**	12.64	**10.09**
T27	5/16″	1 1/4″	480-TX-27X	**KW7060235**	9.33	**7.45**
T30	5/16″	1 1/4″	480-TX-30X	**KW7060240**	9.24	**7.38**
T40	5/16″	1 1/4″	480-TX-40X	**KW7060245**	9.24	**7.38**
T45	5/16″	1 1/4″	480-TX-45X	**KW7060250**	10.43	**8.33**
T50	5/16″	1 1/4″	480-TX-50X	**KW7060255**	10.43	**8.33**
T55	5/16″	1 1/4″	480-TX-55X	**KW7060260**	11.64	**10.46**

6484

Lisle 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**	227.86	**181.95**
Yellow	**KN6593102**	227.86	**181.95**
Blue	**KN6594102**	227.86	**181.95**

5441

Lisle Tap Socket Set



- Ideal for use in areas where a T-handle won't fit
- Set of (8) sockets fits all number and fractional M.C.T.I. standard taps thru 1/2 inch
- Also fits 1/8 inch NPT taps and metric taps thru 12mm manufactured to M.C.T.I. standards
- Sockets contained on a vinyl holder

Order No.	Regular Price	SALE
KN6570500	71.23	**56.88**

9894

PROTO Inspection Mirrors



- Versatile all-angle ball joint
- Features telescoping handle (J2372 and J2373)
- With pocket clip (J2373)

Mirror Diameter	Shape	Overall Length	Model No	Order No.	Regular Price	SALE
7/8"	Circular	7 1/2"	J2370	**KP4270305**	16.88	**13.48**
2 1/4"	Circular	10"-14"	J2372	**KP4270315**	25.44	**20.31**
1 1/4"	Circular	8"	J2374	**KP4270325**	17.47	**13.95**
1 x 2	Oval	8 3/4"	J2371	**KP4270310**	17.37	**13.87**
2-1/8 x 3-1/2	Rectangular	11 1/4"-15 1/2"	J2373	**KP4270320**	25.44	**20.31**

4891

CRESCENT 150 Piece Mechanic's Tool Set



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

Set Includes	Model no	Order No.	Regular Price	SALE
(1) 150 Pc 1/4 and 3/8 Dr 6 Pt SAE/Metric Professional Tool Set, 2 Ratchets 3 Extensions 51 Standard Sockets Spark Plug Socket 12 Combination Wrenches 24 Hex Keys 2 Pliers Adjustable Wrench 2 Screwdrivers Magnetic Bit Driver with 38 Bits Bit Adapter 12 Nutdriver Bits	CTK150	**KW50CTK150**	310.86	**248.23**

30746

BAHCO Hacksaw Frames



Erogonimic Hand Hacksaw:

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

Heavy Duty Frame with Blade Storage:

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

Blade Length	Teeth per Inch	Includes	Order No.	Regular Price	SALE
12"	24	Reliable and shatterproof 12" bi-metal blade, 24 TPI	**FX84325**	113.20	**84.74**
12"	24	Reliable and shatterproof 12" bi-metal blade, 24 TPI	**KL30225PLUS**	74.54	**59.52**

7472

Channellock Tongue & Groove Pliers

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



Overall Length	Round Capacity	Order No.	Regular Price	SALE
4 1/2"	1/2"	**LB50424**	31.26	**25.01**
6 1/2"	7/8"	**LB50426**	27.01	**21.61**
9 1/2"	1 1/2"	**LB50420**	32.58	**26.06**
10"	2"	**LB50430**	33.90	**27.12**
12"	2 1/4"	**LB50440**	38.45	**30.76**
16 1/2"	4 1/4"	**LB50460**	66.32	**53.06**

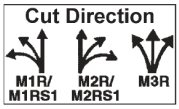
22939

Crescent Wiss Snips



Metalmaster® Compound Action Snips

- M1R cuts left from tight curves to straight, and has red vinyl grips
- M2R cuts right from tight curves to straight, and has green vinyl grips
- M3R cuts straight, and has yellow vinyl grips



Metalmaster® Special Series Snips

- Specially hardened for unusual industrial requirements
- Up to 18 Gauge capacity

Metalmaster Compound Action Snip					
Left/Right Hand	Blade Length	Overall Length	Order No.	Regular Price	SALE
Left	1 3/8"	9 3/4"	**LA50M1R**	46.40	**37.05**
Right	1 3/8"	9 3/4"	**LA50M2R**	46.40	**37.05**
Left/Right	1 1/2"	9 3/4"	**LA50M3R**	46.40	**37.05**

25565

Williams Deadblow Hammers

- Handles are ergonomically designed
- Hard urethane construction
- Resists cut damage to hammer head
- Provides a non-marring contact surface
- Is non-sparking because of no metal-to-metal contact during application
- Will not absorb liquids
- Dead blow feature minimizes hammer bounce back



Head Weight	Head Diameter	Handle Length	Order No.	Regular Price	SALE
16 oz	1 1/2"	10"	**KP30JHW16**	64.35	**51.39**
32 oz	2 1/4"	11 1/2"	**KP30JHW32**	86.57	**69.13**
48 oz	2 5/8"	11 1/2"	**KP30JHW48**	114.58	**91.50**
56 oz	2 1/2"	16"	**KP30JHW56**	155.12	**123.87**

7573

Empire 12" Magnetic Tool Box Level

- True Blue® vials are accurate to within .0005" per inch in all 10 level and plumb working positions
- Heavy duty 12" extruded aluminum frame, top read windows
- 4 Vials read plumb, level, 45º, and VARI-PITCH™
- Powerful, full-length magnetic edge
- VARI-PITCH™ vial reads slope in 1/8" increments



Order No.	Regular Price	SALE
KP7599112	27.74	**22.15**

3441

Titan MIG Wire Utility Plier

- Needle nose pliers and wire cutter for pulling and trimming MIG wire
- Sharp edges for cleaning inside nozzle and around tips
- Small serrated hole for MIG tips
- Large serrated hole for nozzles
- Spring loaded handle with heavy insulated grip for comfort



Order No.	Regular Price	SALE
KP8211448	29.16	**23.29**

7907

PRM Pro 9 Pc. Maintenance File Set with Ergo Handles

- Set contains a complete file collection for the professional maintenance person
- Includes: 10" &12" Mill Bastard, 8" & 10" Flat Bastard, 8" & 10" Half-Rnd Bastard, 10" Round Bastard, 6" Slim 2nd cut, & 6" xx Slim
- Sturdy pouch that protects and organize file placement
- PRM Pro files are made for industrial use



Order No.	Regular Price	SALE
PR0450009	207.94	**134.91**

28818

MAYHEW Line-Up Pry Bar

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

Thickness	Overall Length	Order No.	Regular Price	SALE
1/2″	14″	**KS50468**	36.40	**29.07**
5/8″	16″	**KS50469**	46.82	**37.39**
3/4″	20″	**KS50471**	59.02	**47.13**
3/4″	24″	**KS50472**	68.45	**54.66**
7/8″	30″	**KS50473**	93.88	**74.97**

6872

PROTO Diagonal Cutting Pliers

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



Overall Length	Jaw Width	Style	Model No	Order No.	Regular Price	SALE
4 1/2″	9/16″	With Coil Spring	J204SG	**KP4230285**	53.16	**42.45**
5″	19/32″	With Grip	J205G	**KP4230290**	51.65	**41.24**
6″	3/4″	With Grip	J206G	**KP4230295**	51.84	**41.40**
7″	7/8″	With Grip	J207G	**KP4230300**	57.60	**46.00**
4 5/8″	7/16″	With Grip	J285G	**KP4230310**	49.99	**39.92**
8″	1 7/32″	Angled Head	J210AHG	**KP4230315**	71.20	**56.86**

24510

CRESCENT H.K. PORTER Strap Cutters

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



KR550990T



KR551290G



KR552690GP

Length	Flat Cut	Round Cut	Order No.	Regular Price	SALE
9″	3/4″ x .035	Up to 14 Gauge	**KR550990T**	346.74	**276.88**
12″	1 1/4″ x .050	-	**KR551290G**	334.79	**267.34**
24″	2″ x .050	-	**KR552690GP**	753.31	**601.54**

6697

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
8	Slotted: 3 mm, 4 mm, 5.5 mm, 6.5 mm, 8 mm, Phillips: #1, #2, #3	**KN5430298**	123.66	**98.75**
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**	262.03	**209.24**

25498

PRM PRO 5 Pc. Universal Utility File Set with Ergo Handles

- Set contains a well-rounded collection of general-purpose files
- Includes: 8″ & 10″ Mill Bastard, 10″ Half-Rnd Bastard, 8″ Mill Smooth, 6″ Slim 2nd Cut
- Ergonomic Handles for comfort and safety
- Sturdy pouch that protects and organize file placement
- PRM Pro files are made for industrial use



Order No.	Regular Price	SALE
PR0450005	113.92	**73.91**

28815

APEX Torx Plus® Bits Power Drive - 1/4" Drive

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



Tip Size	Overall Length	Model No	Order No.	Regular Price	SALE
IP10	1 15/16"	49-10IPX	KW7060465	17.83	14.26
IP10	2 3/4"	49-A-10IPX	KW7060420	19.22	15.35
IP10	3 1/2"	49-B-10IPX	KW7060510	22.54	18.00
IP15	1 15/16"	49-15IPX	KW7060470	17.83	14.24
IP15	2 3/4"	49-A-15IPX	KW7060425	19.22	15.35
IP15	3 1/2"	49-B-15IPX	KW7060515	22.54	18.00
IP20	1 15/16"	49-20IPX	KW7060475	17.83	14.24
IP20	2 3/4"	49-A-20IPX	KW7060430	19.22	15.35
IP20	3 1/2"	49-B-20IPX	KW7060520	22.54	18.00
IP25	1 15/16"	49-25IPX	KW7060480	17.83	14.24
IP25	2 3/4"	49-A-25IPX	KW7060435	19.22	15.35
IP25	3 1/2"	49-B-25IPX	KW7060525	22.54	18.00
IP27	1 15/16"	49-27IPX	KW7060485	17.83	14.24
IP27	2 3/4"	49-A-27IPX	KW7060440	19.22	15.35
IP30	1 15/16"	49-30IPX	KW7060495	17.83	14.24
IP30	2 3/4"	49-A-30IPX	KW7060445	19.22	15.35
IP30	3 1/2"	49-B-30IPX	KW7060535	22.54	18.00
IP40	1 15/16"	49-40IPX	KW7060415	17.83	14.24

6483

BONDHUS Double Sided Ball End L-Wrenches

- Much better leverage angle than ever before!
- Exclusive MaxTorque™ ball end delivers 50% more torque than conventional ball ends
- Short ball end inserts into screw and works at a 15° angle
- Standard Bondhus ball end on long arm inserts into screw and works at a 25° angle
- Lifetime warranty



Number of Pieces	Sizes Included	Arm Type	Driver Style	Order No.	Regular Price	SALE
13	0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	Long	Double Ball	KN5367037	60.46	48.28
9	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	Long	Double Ball	KN5367099	48.95	39.09

6520

GEARWRENCH® Gimbal Ratchets with Pivoting Mechanism

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



Drive Size	Order No.	Regular Price	SALE
1/4"	KP6581027	57.37	45.81
3/8"	KP6581270	40.63	32.44

6640

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	50.89	40.64

7549

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	201.89	130.26

7915

Copper Hammers with Fiberglass Handle

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



Head Weight	Head Diameter	Handle Length	Order No.	Regular Price	SALE
4 lbs	1 3/4″	15″	**KY5110030**	433.69	**346.31**

While supplies last

6698

Ironworker's Pliers

- Twists and cuts soft annealed rebar tie wire
- Spring-loaded or standard
- Induction hardened cutting knives for long life
- No wobble handle
- Unique handle tempering helps absorb the "snap" when cutting wire
- Made in USA



Overall Length	Jaw Width	Jaw Length	Jaw Thickness	Side Cutter	Handle Style	ManufacturerNo	Order No.	Regular Price	SALE
9″	1.156″	1-19/64″	1/2″	Yes	Plain Black Steel	201-7CST	**KP6011010**	93.48	**74.65**
9″	1.156″	1-19/64″	1/2″	Yes	Plastic Blue	D201-7CST	**KP6011035**	93.48	**74.65**
9 1/2″	1.156″	1-19/64″	1-9/32″	Yes	Plastic Red	D201-7CSTA	**KP6011040**	95.14	**75.97**

28925

Electrician's Scissors

- Designed for telecom, electrical and heavy-duty use applications
- Strong, tough tempered steel
- Nickel-plated finish resists corrosion
- Scraper and file on outside of both blades
- Screw hinge permits adjustment



Overall Length	Blade Length	Left/Right Hand	ManufacturerNo	Order No.	Regular Price	SALE
5″	1 7/8″	Left/Right Hand	2100-5	**KP6011410**	40.99	**32.73**

28960

PRM PRO Mill Hand Files- Professional Grade



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

	2nd Cut			Bastard			Smooth		
Overall Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4″	-	-	-	**PR0410104**	6.13	**4.90**	**PR0410204**	7.35	**5.87**
6″	**PR0410006**	7.78	**6.21**	**PR0410106**	6.27	**5.01**	**PR0410206**	7.85	**6.27**
8″	**PR0410008**	9.73	**7.77**	**PR0410108**	7.85	**6.27**	**PR0410208**	9.88	**7.89**
10″	**PR0410010**	11.83	**9.45**	**PR0410110**	10.89	**8.70**	**PR0410210**	13.27	**10.60**
12″	**PR0410012**	16.00	**12.78**	**PR0410112**	15.50	**12.38**	**PR0410212**	18.45	**14.73**
14″	-	-	-	**PR0410114**	23.94	**19.12**	**PR0410214**	29.64	**23.67**

28638

NOGA Rotodrive Blades



Blade Type	Application	Order No.	Regular Price	SALE
RD03.2	3.2 mm RotoDrive for Chamfering	**FN55BC3201**	11.37	**9.08**
RD06.3	6.3 mm RotoDrive for Chamfering	**FN55BC6301**	26.00	**20.76**
RD08.3	8.3 mm RotoDrive for Chamfering	**FN55BC8301**	26.53	**21.18**
RD10.4	10.4 mm RotoDrive for Chamfering	**FN55BC1041**	29.78	**23.78**
RD16.5	16.5 mm RotoDrive for Chamfering	**FN55BC1651**	32.49	**25.94**

10111

Jacobs Ball Bearing Super Chucks

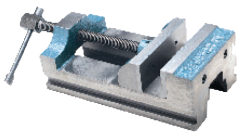


- Designed for extra heavy duty drilling applications on production drilling machines, jig borers, milling machines, lathes and radials
- The ball thrust bearing reduces friction in the chuck's closing mechanism

0.125 in	Maximum Capacity	Mount Type	Key Style	Minimum Capacity	Order No.	Regular Price	SALE
8 1/2N	1/4"	Tapered	K30	0.040"	**HK5030209**	277.54	**221.62**
11N	3/8"	Tapered	K32	0.040"	**HK5030215**	309.29	**246.98**
14N	1/2"	Tapered	K3	0.040"	**HK5030221**	432.38	**345.27**
16N	5/8"	Tapered	K4	1/8"	**HK5030227**	496.30	**396.31**
18N	3/4"	Tapered	K4	1/8"	**HK5030233**	746.44	**596.06**
20N	1"	Tapered	K5	3/8"	**HK5030239**	1,005.14	**802.64**

23491

PALMGREN Drill Press Vises



- Replaceable Steel Jaws
- Made from 30,000 PSI tensile strength, fine grain cast iron
- Base and bed parallel to 0.001 in
- Center of base is open
- All vises can be mounted on the base, either side or placed on end for general use
- Lifetime Warranty

Jaw Height	Jaw Width	Jaw Depth	Jaw Opening Capacity	Throat Depth	Order No.	Regular Price	SALE
1"	1 1/2"	1"	1 1/2"	1"	**JB506**	182.96	**155.51**
1 1/2"	2 7/16"	1 1/2"	2 1/2"	1 1/2"	**JB5030**	221.95	**188.65**
1 1/2"	2 7/16"	1 1/2"	3"	1 1/2"	**JB5010**	217.45	**173.96**
1 3/4"	3"	1 3/4"	3"	1 3/4"	**JB5013**	374.92	**299.94**
1 3/4"	4"	1 3/4"	4"	2"	**JB5014**	469.40	**375.52**
2"	6"	2"	6"	2"	**JB5016**	932.80	**746.24**

24369

BESSEY SQ Series Regular Duty "L" Clamps



- Easy to use, just slide moveable arm into position and tighten screw spindle
- Instant clamping at any opening
- Save 90% of clamping time versus the ordinary "C" Clamp

Maximum Opening	Throat Depth	Clamping Pressure	Order No.	Regular Price	SALE
12"	4 3/4"	2,660 lbs	**SG75SQ12**	153.20	**122.56**
20"	4 3/4"	2,660 lbs	**SG75SQ20**	219.52	**175.62**
6"	4 3/4"	1330 lbs	**SG75SQ4**	74.20	**59.36**
8"	4 3/4"	2,660 lbs	**SG75SQ8**	130.44	**104.35**

22787

Jergens Forged Adjustable Clamps



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

Bolt Size	Clamping Range	Clamp Width	Clamp Thickness	Heel to Center	Maximum Torque	Clamping Force	Order No.	Regular Price	SALE
1/2"	0-2"	1 3/4"	1 1/2"	2 1/2"	90 ft/lbs	6,800 lbs	**SG6619101**	78.74	**66.93**
5/8"	0-2 3/8"	2"	1 5/8"	3"	180 ft/lbs	10,600 lbs	**SG6619102**	98.14	**83.42**
3/4"	0-2 3/4"	2 1/2"	1 3/4"	3 3/4"	300 ft/lbs	16,000 lbs	**SG6619103**	148.96	**126.62**
7/8"	0-3 1/2"	3"	2 3/8"	4 1/4"	500 ft/lbs	21,800 lbs	**SG6619104**	220.63	**187.54**

1256

WILTON Classic 400 Series Columbian C-Clamps



- Patented design frame geometry allows for maximum strength with greater throat depth and lower weight
- Oscillating Head: High quality steel pad is built to last and provides firm gripping action on angular surfaces

Maximum Opening	Throat Depth	Clamping Force	Order No.	Regular Price	SALE
2"	2"	3,500 lbs	**SF30402**	31.48	**25.18**
3"	2 3/8"	3,500 lbs	**SF30403**	46.48	**37.18**
4"	3 1/4"	6,200 lbs	**SF30404**	62.97	**50.38**
6"	3 5/8"	6,600 lbs	**SF30406**	95.96	**76.77**
8"	4 1/2"	6,900 lbs	**SF30408**	119.96	**95.97**
10"	5 3/8"	8,000 lbs	**SF30410**	175.45	**140.36**
12"	5 3/4"	9,300 lbs	**SF30412**	268.20	**214.56**

25539

TE-CO 52 Pc. Machinist Clamping Set

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



Set Contains:

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

Order No.	Regular Price	SALE
SG6012625CKUS	245.14	**195.75**

25209

Circular Saw Arbor



- .001 Square shank to cutter locating area
- Deep low profile caps allows closest cutter to work area
- Weldon shank

Hole Size	Shank Size (SS)	Order No.	Regular Price	SALE
1/4"	1/2"	**GP25SA250**	95.55	**76.30**
3/8"	1/2"	**GP25SA375**	100.10	**79.93**
1/2"	1/2"	**GP25SA500**	106.50	**85.04**
5/8"	3/4"	**GP25SA625**	116.20	**92.79**
1"	3/4"	**GP25SA1000**	135.06	**107.85**
1-1/4"	3/4"	**GP25SA1250**	136.40	**108.92**
1/4"|3/8"|1/2"	3/4"	**GP25SA3S**	302.16	**241.28**
5/8"|1"|1-1/4"	1/2"	**GP25SA3L**	387.66	**309.56**

10611

KURT WORKHOLDING Parallel Keeper



Place your parallels in the vise against the jaws. Take the Parallel Keeper, squeeze them together and place them inside the parallels. Release the Parallel Keeper, they will push against the parallels, holding them against the hard jaws of the vise. Your new revolutionary labor saver, your "machinist's third hand," is a t work, saving part change time. Fits all 6 inch vises including DoubleLock™.)

For Use With	Order No.	Regular Price	SALE
All 6" Vises	**HT80KPS6000**	142.47	**113.98**
All 8" Vises	**HT80KPS8000**	184.46	**147.57**

23654

PRM 1" x 42" Belt Sander

Features:

- Belt can be positioned vertically, horizontally or at any angle in between
- Front mounted On/Off paddle switch
- Guarding OSHA & ANSI compliant
- 1800 RPM
- 1/3HP 120/240V 1PH
- Weight: 45 lbs.
- 1 Year Parts Warranty



Order No.	Regular Price	SALE
PR72142	657.03	**525.62**

6122

LENOX Portable Bandsaw Blades



Cutting Recommendations

General purpose applications such as tubing, pipe, structurals, and solids of mild to difficult machinability.

Portable Bandsaw Blades Master Band

- Enhanced beam strength that reduces blade deflection and twist
- 8% Cobalt high speed cutting edge resists higher cutting temperature
- In addition 30% in width of the tool steel tooth makes for stronger teeth and less tooth stripping

Wolf Portable Bandsaw Blades

- 8% High speed cutting edge reduces higher cutting temperatures
- Cuts most metals
- Material: bi-metal, cutting edge material: HSS-E (Co0M42), cutting length: 44-7/8"
- Priced & sold in packs of 25

Wolf							
Length	**Width (W)**	**Thickness (H)**	**ManufacturerNo**	**Teeth per Inch (TPI)**	**Order No.**	**Regular Price**	**SALE**
44-7/8"	1/2"	0.02"	3842338PW1014	10/14 VT	**FX9008423**	245.11	**196.09**
44-7/8"	1/2"	0.02"	3842438PW14	14	**FX9008424**	245.11	**196.09**
44-7/8"	1/2"	0.02"	3842538PW18	18	**FX9008425**	245.11	**196.09**
44-7/8"	1/2"	0.02"	3842638PW24	24	**FX9008426**	249.84	**199.87**
44-7/8"	1/2"	0.02"	3842738PW1418	14/18 VT	**FX9008427**	245.11	**196.09**

Master Band							
Length	**Width (W)**	**Thickness (H)**	**ManufacturerNo**	**Teeth per Inch (TPI)**	**Order No.**	**Regular Price**	**SALE**
44-7/8"	1/2"	0.02"	9403B38EW1014	10/14 VT	**FX9009403**	407.36	**325.89**
44-7/8"	1/2"	0.02"	9404B38EW14	14	**FX9009404**	407.36	**325.89**
44-7/8"	1/2"	0.023"	9405B38EW18	18	**FX9009405**	407.36	**325.89**
44-7/8"	1/2"	0.02"	9407B38EW1418	14/18 VT	**FX9009407**	407.36	**325.89**

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Wells Lamont Industrial

PERFORMANCE-DRIVEN GLOVES FOR EVERY JOB.



I2466

PERFORMANCE RATINGS:

ANSI	ANSI	ANSI	ANSI / ISEA 138
Cut A7	4	4	2
CUT	ABR	PUNCT	IMPACT

SPECIFICATIONS:

Style	I2466
Description	18G, A7, Foam Nitrile, Thumb Crotch, Abrasion 4, Impact 2
Material	Fiberglass/Stainless Steel/Nylon/Lycra/ HPPE/Thermoplastic Rubber
Palm	Foam Nitrile
Cut Performance	ANSI Level A7
Abrasion Performance	ANSI Level 4
Puncture Performance	ANSI Level 4
Impact Level	ANSI Level 2
Size	S-XXL
Packaging (Inner Pack)	6 pairs
Packaging (Case Pack)	72 pairs
Touchscreen	Touchscreen compatible



I2478

PERFORMANCE RATINGS:

ANSI	ANSI	ANSI	ANSI / ISEA 138
Cut A5	4	4	1
CUT	ABR	PUNCT	IMPACT

SPECIFICATIONS:

Style	I2478
Description	18G, A5, Nitrile dipped with TPR
Material	Stainless Steel/Fiberglass/HPPE/Nylon/Lycra
Palm	Foam Nitrile
Cut Performance	ANSI Cut Level A5
Abrasion Performance	ANSI Level 4
Puncture Performance	ANSI Level 4
Impact Performance	ANSI Level 1
Size	S-XXL
Packaging (Inner Pack)	6 Pairs (1 pair per polybag)
Packaging (Case Pack)	72 Pairs



Y9214

PERFORMANCE RATINGS:

ANSI	ANSI	EN 388
Cut A6	4	
CUT	ABR	4

SPECIFICATIONS:

Style	Y9214
Description	Cut Resistant Sandy Nitrile Palm Coated Touchscreen Gloves
Material	13 Gauge HPPE; Silicone-Free; Latex-Free
Palm	Sandy Nitrile
Cut Performance	ANSI Level A6
Abrasion Performance	ANSI Level A4
Puncture Performance	ANSI Level A4
Size	S-XXL
Packaging (Inner Pack)	12 Pairs
Packaging (Case Pack)	144 Pairs



Y9216

PERFORMANCE RATINGS:

ANSI	ANSI	EN 388
Cut A7	5	
CUT	ABR	5

SPECIFICATIONS:

Style	Y9216
Description	Seamless Knit Palm Coated Glove
Material	Blend of High Performance Fibers & Steel
Palm	Sandy Nitrile
Cut Performance	ANSI Level A7
Abrasion Performance	ANSI Level A5
Puncture Performance	ANSI Level A5
Size	S-XXL
Packaging (Inner Pack)	12 Pairs
Packaging (Case Pack)	144 Pairs



Y9219

PERFORMANCE RATINGS:

ANSI	ANSI	EN 388
Cut A9	4	
CUT	ABR	4

SPECIFICATIONS:

Style	Y9219
Description	18G, A9, PU Coated, ANSI Puncture 4
Material	Tungsten/Fiberglass/Polyester/HPPE
Palm	Polyurethane (PU)
Cut Performance	ANSI Level A9
Abrasion Performance	ANSI Level 4
Puncture Performance	ANSI Level 4
Size	S-XXL
Packaging (Inner Pack)	12 Pairs
Packaging (Case Pack)	144 Pairs

INNOVATION LEADERS SINCE 1907

PRICES EFFECTIVE APRIL 1ST THROUGH JUNE 30, 2025

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