

Sussex Tool & Supply

Featuring



NOGA
SIMPLY SOPHISTICATED

S Promo Set



PROCHECK

Electronic Calipers



PRM PRO

Air Die Grinders



PG
17

PG
2



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

PG
30

PG 14

Pricing available October 1, 2025 - December 31, 2025

Starrett® Angle Meter-AM2

- Sturdy high-impact plastic
- Scale readings from 0° to 90° in any quadrant
- Measures any angle for pitch or slope
- Pitch/angle calculator finds rise, run, angle, pitch on 12" or rafter lumber lengths



Order No.	Regular Price	SALE
36080	32.69	24.87

4980

Dorian Precision & Heavy Duty Live Centers with .00007" Max. Runout

Finally, A Live Center With Taper Roller Bearings!!!

Taper bearings are used in the design of lathe headstocks to support the spindle. They are the most heavy-duty bearing type to support radial and axial forces.

Features:

- Precision Concentricity of .00007 Max. Runout
- Heavy Duty Precision Quad Bearings
- Bearings Permanently Lubricated
- Heat-Treated (62 HRC) & Precision Ground High-Tensile Strength Alloy Steel



Shank Diameter	Maximum RPM	Order No.	Regular Price	SALE
1 MT	8,500	48200	395.65	316.52
2 MT	6,000	48201	427.76	342.21
3 MT	5,000	48202	475.94	380.75
4 MT	4,000	48203	614.63	491.70
5 MT	3,000	48204	746.95	597.56
6 MT	2,500	48205	1424.23	1139.38
2 MT	7,500	48206	528.16	422.53
3 MT	6,000	48207	586.69	469.35
4 MT	4,500	48208	733.02	586.42
5 MT	2,800	48209	914.17	731.34
6 MT	2,000	48210	1998.38	1598.70
6 MT	1,700	48211	4274.08	3419.26

23087

PRO-CHECK PREMIUM Electronic Calipers

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



Measuring Range	Order No.	Regular Price	SALE
0-6"/150mm	EDC6	90.37	67.78
0-8"/200mm	EDC8	100.02	75.06
0-12"/300mm	EDC12	166.81	125.06

4572

IRWIN QUICKGRIP One Handed Bar Clamps/Spreaders

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



Maximum Opening	Throat Depth	Reach	Order No.	Regular Price	SALE
6"	3 1/4"	7 1/2"-20 5/8"	00546	21.05	16.26
6"	3 1/4"	7 1/2"-14 5/8"	506QC	36.50	27.92
12"	3 1/4"	7 1/2"-26 5/8"	512QC	42.39	32.59
18"	3 1/4"	7 1/2"-32 5/8"	518QC	47.47	36.10
24"	3 1/4"	7 1/2"-44 5/8"	524QC	52.08	39.62
36"	3 1/4"	7 1/2"-58 5/8"	536QC	61.71	46.59

† Mini Bar Clamp

23449

STANLEY 8" ABS Orange Torpedo Level**FEATURES & BENEFITS**

- Constructed of ABS plastic for impact resistance
- Top-reading feature allows visibility from above
- Tinted 360 ° vials for readability
- High-visibility orange color makes it easy to identify on the jobsite



Model No	Order No.	Regular Price	SALE
42-294	1545	5.68	4.74

DORLAN INDEX Indexable Miniature Boring Bar Set

- For precision finishing boring operations
- Includes 3 boring bars and 10 CVD coated inserts
- For use in alloy steel and stainless steel

Set Includes: Boring Bar Shank Size Minimum Bore

- S06H-SCLCR-2 .375 .394
- S08K-SCLCR-2 .500 .550
- S10M-SCLCR-2 .625 .708
- (10) CCMT 21.51 CVD coated inserts
- (1) T-8 Torx key
- (1) Storage case



Order No.	Regular Price	SALE
85064	390.11	351.14

8744

PRM PRO Swivel Tractor Seat

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



Height	Order No.	Regular Price	SALE
18"-22"	4000	176.00	132.00

5484

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
SDK25	29.23	20.50

689

Eklind Ergo-Fold™ Hex Key Sets

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



Number of Pieces	Sizes Included	Order No.	Regular Price	SALE
6	3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	25161	18.33	12.95
7	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm	25171	12.47	10.95
6	5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	25611	18.60	13.95
9	5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	25911	12.90	9.95

23147

INOGA Multi-Purpose 007 Deburring Kit

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



Order No.	Regular Price	SALE
007	63.80	57.43

24082

CARBIDE



Solid Carbide Metric 4-Flute

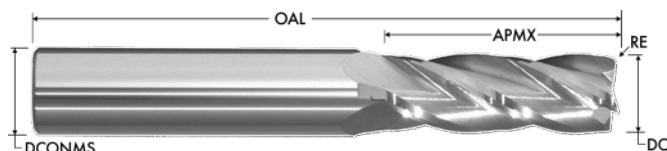
Single End Mills

Micrograin Carbide Center Cutting 30° Helix Angle

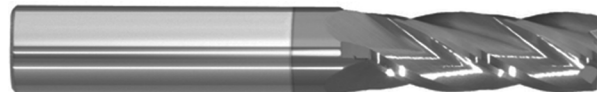
4-Flute end mills with a greater core thickness offer increased tool strength and reduced tool deflection. 4-Flutes also reduce chip load per tooth for the milling of tougher materials, greater wear resistance and improved surface finish. Center Cutting end allows for plunge cutting like a drill into solid material.

Corner Radius strengthens the end mill corners to minimize chipping especially in tougher milling applications. Corner Radius also used when the finished part requires a radius.

ALTiN – Aluminum Titanium Nitride Coating for abrasive and hard-to-machine materials



List No. 5961 Uncoated



List No. 5961T ALTiN Coated

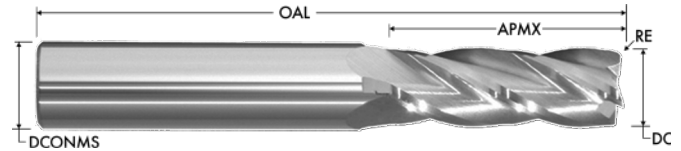
Tolerance
All Sizes +.000mm/- .051mm
Shank Dia. +.000mm/- .013mm

						Uncoated			ALTiN Coated		
DC		DCONMS	APMX	OAL	RE	5961			5961T		
Size	Decimal Equivalent	Shank Diameter	Flute Length	Overall Length	Corner Radius	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 mm	0.0394"	3 mm	3 mm	39 mm	-	59310	18.08	13.56	90940	24.80	18.60
1.5 mm	0.0591"	3 mm	5 mm	39 mm	-	59311	16.46	12.35	90941	20.71	15.53
2 mm	0.0787"	3 mm	7 mm	39 mm	-	59312	17.55	13.16	90942	19.09	14.32
2.5 mm	0.0984"	3 mm	5 mm	38 mm	-	50288	13.99	10.49	50286	18.27	13.70
2.5 mm	0.0984"	3 mm	12 mm	38 mm	-	50281	16.31	12.23	50280	20.61	15.46
2.5 mm	0.0984"	3 mm	7 mm	39 mm	-	59313	16.22	12.17	90943	16.85	12.64
3 mm	0.1181"	3 mm	9 mm	39 mm	-	59314	14.28	10.71	90944	18.80	14.10
3.5 mm	0.1378"	4 mm	7 mm	50 mm	-	50290	19.10	14.33	50289	23.36	17.52
3.5 mm	0.1378"	4 mm	12 mm	50 mm	-	50283	22.31	16.73	50282	26.57	19.93
3.5 mm	0.1378"	4 mm	12 mm	51 mm	-	59315	21.51	16.13	90945	32.64	24.48
4 mm	0.1575"	4 mm	8 mm	50 mm	-	50043	18.07	13.55	50042	22.36	16.77
4 mm	0.1575"	4 mm	14 mm	50 mm	-	50037	21.15	15.86	50036	25.41	19.06
4 mm	0.1575"	4 mm	14 mm	50 mm	0.50 mm	-	-	-	50035	29.73	22.30
4 mm	0.1575"	4 mm	16 mm	50 mm	-	50039	21.15	15.86	50038	25.41	19.06
4 mm	0.1575"	4 mm	14 mm	51 mm	-	59316	21.84	16.38	90946	26.77	20.08
4 mm	0.1575"	4 mm	25 mm	75 mm	-	50041	34.99	26.24	50040	41.60	31.20
4.5 mm	0.1772"	5 mm	9.5 mm	50 mm	-	50292	23.98	17.99	50291	30.64	22.98
4.5 mm	0.1772"	5 mm	14 mm	50 mm	-	50285	25.89	19.42	50284	32.54	24.41
4.5 mm	0.1772"	5 mm	14 mm	51 mm	-	59317	26.77	20.08	90947	35.33	26.50
5 mm	0.1969"	5 mm	10 mm	50 mm	-	50055	22.36	16.77	50054	28.99	21.74
5 mm	0.1969"	5 mm	16 mm	50 mm	-	50057	24.21	18.16	50056	31.49	23.62
5 mm	0.1969"	5 mm	16 mm	51 mm	-	59318	25.31	18.98	90948	32.40	24.30
5 mm	0.1969"	5 mm	16 mm	65 mm	-	50061	24.69	18.52	-	-	-
5 mm	0.1969"	5 mm	16 mm	65 mm	0.30 mm	-	-	-	50059	39.67	29.75
5 mm	0.1969"	5 mm	16 mm	65 mm	0.50 mm	-	-	-	50058	39.67	29.75
5 mm	0.1969"	5 mm	16 mm	65 mm	-	-	-	-	50060	33.48	25.11
5 mm	0.1969"	5 mm	20 mm	75 mm	-	50063	37.74	28.31	50062	46.50	34.88
5 mm	0.1969"	5 mm	25 mm	75 mm	-	50065	37.74	28.31	50064	46.50	34.88
6 mm	0.2362"	6 mm	12 mm	50 mm	-	50079	23.68	17.76	50078	30.32	22.74
6 mm	0.2362"	6 mm	19 mm	64 mm	-	59319	29.35	22.01	-	-	-
6 mm	0.2362"	6 mm	19 mm	65 mm	-	50085	25.47	19.10	50084	34.27	25.70
6 mm	0.2362"	6 mm	19 mm	65 mm	0.50 mm	-	-	-	50082	40.44	30.33
6 mm	0.2362"	6 mm	19 mm	65 mm	0.80 mm	-	-	-	50081	40.44	30.33
6 mm	0.2362"	6 mm	19 mm	65 mm	1 mm	-	-	-	50080	40.44	30.33
6 mm	0.2362"	6 mm	19 mm	65 mm	1.50 mm	-	-	-	50083	40.44	30.33
6 mm	0.2362"	6 mm	25 mm	75 mm	-	50089	43.73	32.80	50088	52.49	39.37
6 mm	0.2362"	6 mm	25 mm	100 mm	-	50087	46.13	34.60	50086	56.44	42.33
6 mm	0.2362"	6 mm	32 mm	100 mm	-	50091	46.13	34.60	50090	56.44	42.33
6 mm	0.2362"	6 mm	38 mm	150 mm	-	50093	62.43	46.82	50092	76.96	57.72
7 mm	0.2756"	8 mm	19 mm	64 mm	-	59320	42.93	32.20	90950	51.16	38.37
8 mm	0.315"	8 mm	12 mm	50 mm	-	50107	32.32	24.24	50106	41.84	31.38
8 mm	0.315"	8 mm	21 mm	64 mm	-	59321	37.45	28.09	90951	49.82	37.37
8 mm	0.315"	8 mm	22 mm	65 mm	1.50 mm	-	-	-	50108	54.69	41.02
8 mm	0.315"	8 mm	25 mm	100 mm	-	50115	60.17	45.13	-	-	-
8 mm	0.315"	8 mm	50 mm	150 mm	-	-	-	-	50120	109.88	82.41
9 mm	0.3543"	10 mm	22 mm	70 mm	-	59322	57.39	43.04	90952	69.79	52.34
10 mm	0.3937"	10 mm	16 mm	50 mm	-	50137	44.13	33.10	-	-	-
10 mm	0.3937"	10 mm	22 mm	70 mm	-	59323	57.02	42.77	90953	73.03	54.77
10 mm	0.3937"	10 mm	25 mm	70 mm	0.50 mm	-	-	-	50141	74.32	55.74

(CONTINUED)

**Solid Carbide Metric 4-Flute****Single End Mills**

Continued (List No. 5961 & 5961T)



List No. 5961 Uncoated



List No. 5961T ALTIN Coated

						Uncoated			ALTIN Coated		
DC		DCONMS	APMX	OAL	RE	5961			5961T		
Size	Decimal Equivalent	Shank Diameter	Flute Length	Overall Length	Corner Radius	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
10 mm	0.3937"	10 mm	25 mm	70 mm	0.80 mm	-	-	-	50140	74.32	55.74
10 mm	0.3937"	10 mm	25 mm	70 mm	1.50 mm	-	-	-	50146	74.32	55.74
10 mm	0.3937"	10 mm	25 mm	70 mm	2.50 mm	-	-	-	50142	74.32	55.74
10 mm	0.3937"	10 mm	25 mm	76 mm	-	50149	62.58	46.94	-	-	-
10 mm	0.3937"	10 mm	25 mm	100 mm	-	50139	80.68	60.51	50138	100.04	75.03
10 mm	0.3937"	10 mm	50 mm	100 mm	-	-	-	-	50152	100.04	75.03
10 mm	0.3937"	10 mm	38 mm	150 mm	-	-	-	-	50150	133.37	100.03
10 mm	0.3937"	10 mm	75 mm	150 mm	-	50155	106.12	79.59	50154	133.37	100.03
11 mm	0.4331"	11 mm	25 mm	70 mm	-	59324	65.07	48.80	90954	77.88	58.41
12 mm	0.4724"	12 mm	19 mm	65 mm	-	-	-	-	50168	80.88	60.66
12 mm	0.4724"	12 mm	25 mm	75 mm	0.50 mm	50179	71.30	53.48	50172	109.44	82.08
12 mm	0.4724"	12 mm	25 mm	75 mm	0.80 mm	-	-	-	50173	109.44	82.08
12 mm	0.4724"	12 mm	25 mm	75 mm	1 mm	-	-	-	50174	109.44	82.08
12 mm	0.4724"	12 mm	25 mm	75 mm	1.50 mm	-	-	-	50176	109.44	82.08
12 mm	0.4724"	12 mm	25 mm	75 mm	2 mm	-	-	-	50175	109.44	82.08
12 mm	0.4724"	12 mm	25 mm	75 mm	3 mm	-	-	-	50178	109.44	82.08
12 mm	0.4724"	12 mm	25 mm	76 mm	-	59325	79.46	59.60	90955	100.25	75.19
12 mm	0.4724"	12 mm	25 mm	76 mm	-	-	-	-	50180	86.25	64.69
12 mm	0.4724"	12 mm	25 mm	100 mm	-	50171	98.25	73.69	50170	117.61	88.21
12 mm	0.4724"	12 mm	50 mm	100 mm	-	50182	98.25	73.69	-	-	-
12 mm	0.4724"	12 mm	50 mm	150 mm	-	50184	133.98	100.49	50183	161.22	120.92
12 mm	0.4724"	12 mm	75 mm	150 mm	-	50186	133.98	100.49	50185	161.22	120.92
14 mm	0.5512"	14 mm	32 mm	88 mm	-	50200	121.72	91.29	50199	143.38	107.54
14 mm	0.5512"	14 mm	31 mm	89 mm	-	59327	125.11	93.83	90956	153.57	115.18
14 mm	0.5512"	14 mm	25 mm	100 mm	-	50198	134.89	101.17	50197	156.54	117.41
14 mm	0.5512"	14 mm	50 mm	100 mm	-	50202	134.89	101.17	50201	156.54	117.41
14 mm	0.5512"	14 mm	50 mm	150 mm	-	50204	175.87	131.90	50203	208.01	156.01
14 mm	0.5512"	14 mm	75 mm	150 mm	-	50206	175.87	131.90	-	-	-
16 mm	0.6299"	16 mm	19 mm	75 mm	-	50214	125.99	94.49	-	-	-
16 mm	0.6299"	16 mm	38 mm	88 mm	-	50221	137.46	103.10	50219	159.12	119.34
16 mm	0.6299"	16 mm	38 mm	88 mm	1 mm	-	-	-	50218	174.41	130.81
16 mm	0.6299"	16 mm	38 mm	88 mm	2 mm	-	-	-	50220	174.41	130.81
16 mm	0.6299"	16 mm	38 mm	88 mm	3 mm	-	-	-	50215	174.41	130.81
16 mm	0.6299"	16 mm	38 mm	88 mm	4 mm	-	-	-	50216	174.41	130.81
16 mm	0.6299"	16 mm	32 mm	89 mm	-	59328	160.78	120.59	90957	224.39	168.29
16 mm	0.6299"	16 mm	50 mm	150 mm	-	50223	190.96	143.22	50222	223.12	167.34
16 mm	0.6299"	16 mm	75 mm	150 mm	-	50225	190.96	143.22	50224	223.12	167.34
18 mm	0.7087"	18 mm	38 mm	100 mm	-	50233	201.55	151.16	50232	227.08	170.31
18 mm	0.7087"	18 mm	35 mm	102 mm	-	59329	204.21	153.16	90958	315.05	236.29
18 mm	0.7087"	18 mm	50 mm	150 mm	-	50235	287.13	215.35	50234	324.35	243.26
18 mm	0.7087"	18 mm	75 mm	150 mm	-	50237	287.13	215.35	50236	324.35	243.26
20 mm	0.7874"	20 mm	25 mm	75 mm	-	50245	233.50	175.13	50244	266.23	199.67
20 mm	0.7874"	20 mm	38 mm	100 mm	2 mm	-	-	-	50249	339.25	254.44
20 mm	0.7874"	20 mm	38 mm	100 mm	3 mm	-	-	-	50247	339.25	254.44
20 mm	0.7874"	20 mm	38 mm	100 mm	5 mm	-	-	-	50246	339.25	254.44
20 mm	0.7874"	20 mm	38 mm	102 mm	-	59330	245.26	183.95	90959	369.35	277.01
20 mm	0.7874"	20 mm	50 mm	150 mm	-	-	-	-	50252	368.81	276.61
22 mm	0.8661"	22 mm	38 mm	102 mm	-	59331	268.51	201.38	91043	303.60	227.70
25 mm	0.9843"	25 mm	38 mm	100 mm	-	50263	297.70	223.28	50262	335.45	251.59
25 mm	0.9843"	25 mm	38 mm	102 mm	-	59332	297.19	222.89	91044	332.19	249.14
25 mm	0.9843"	25 mm	50 mm	150 mm	-	50265	493.85	370.39	50264	542.16	406.62
25 mm	0.9843"	25 mm	75 mm	150 mm	-	50267	493.85	370.39	50266	542.16	406.62

CARBIDE

DRIPAN TECH Carbide Boring Bars

- Deep boring
- Carbide shank
- Alloy steel head- hardened to RC 40-44
- Focused coolant-thru delivery system
- Threaded end on 1/2" and larger bars



Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Minimum Bore Diameter (DMIN)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE
3/8"	6"	0.396"	CCMT2151	59595	235.30	211.75
1/2"	5"	0.55"	CCMT2151	59599	243.22	218.93
1/2"	8"	0.55"	CCMT2151	59603	320.30	288.25
5/8"	6"	0.74"	CCMT3252	59623	307.04	276.31
5/8"	10"	0.74"	CCMT3252	59627	441.55	397.38
3/8"	6"	0.396"	CPMT2151	59635	235.30	211.75
1/2"	8"	0.55"	CPMT2151	59643	320.30	288.25
5/8"	6"	0.74"	CPMT2151	59647	307.04	276.31
5/8"	6"	0.74"	CPMT3252	59663	307.04	276.31
5/8"	10"	0.74"	CPMT3252	59667	441.55	397.38
3/8"	6"	0.456"	TCMT2151	59763	235.30	211.75
1/2"	5"	0.587"	TCMT2151	59767	243.22	218.93
1/2"	8"	0.587"	TCMT2151	59771	320.30	288.25
5/8"	10"	3/4"	TCMT2151	59779	441.55	397.38
1"	8"	1.2"	CCMT3252	59971	754.81	679.32
3/4"	7"	0.93"	TCMT3252	60027	481.05	432.91
3/4"	10"	0.93"	TCMT3252	60029	621.70	559.52

23085

EVERE TOOL COMPANY Spot Drill and Engraving Inserts

Selection

- TiN coated universal insert for carbon steel, alloy steel iron applications
- TiN coated high positive geometry, fully ground edge f angle. Universal grade for most all materials.

71



Inscribed Circle Diameter (IC)	Insert Thickness (S)	Corner Radius (RE)	Grade	Order No.	Regular Price	SALE
0.196"	0.071"	0.016"	71	20002	37.44	35.53
0.236"	0.079"	0.008"	71	20008	48.89	46.48
0.236"	0.079"	0.008"	71	20009	48.89	46.45
0.312"	0.094"	0.031"		20003	34.71	33.00
0.315"	0.094"	0.016"	71	20000	41.43	39.33
0.315"	0.094"	0.031"	71	20006	64.38	61.14
0.433"	0.156"	0.031"		20004	34.71	33.00
0.472"	0.156"	0.031"	71	20001	58.32	55.39
0.669"	0.187"	0.047"	71	20005	68.13	64.76

22053

EVERE TOOL COMPANY Engraving Tool

- High positive rake angle
- High speeds, high feed rates - up to 20,000 RPM
- Economical with each insert having two cutting edges with excellent repeatability



Angle	Master Insert Identification (MIID)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Order No.	Regular Price	SALE
45 Degrees	V04506TW06-NC2071	0.236"	1.575"	10068	123.94	117.71
60 Degrees	V06006TW06-NC2071	0.236"	1.575"	10069	123.94	117.71

22054

EVERE TOOL COMPANY



Spotting Drills

- One tool will perform multiple applications
- Each insert has two or four cutting edges
- Great for spotting, chamfering, grooving and engraving applications



82 Degrees					
Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE
3/8"	3-1/2"	V0820802-NC2071	10060	153.95	146.28
5/8"	4"	V08212T3-NC2071	10061	183.94	174.76

90 Degrees					
Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE
1/4"	1.378"	N9MT05T1CT-NC2071	10062	122.65	116.48
3/8"	3.543"	N9MT080204CT-NC40	10063	153.95	146.28
5/8"	4"	N9MT11T3CT-NC40	10064	183.94	174.76
1"	6"	N9MT1704CT-NC2071	10065	242.60	230.48

142 Degrees					
Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE
5/8"	4"	V1420803-NC2071	10066	183.94	174.76

22056

TOOL FLO Flo-Lock Internal Bars

A-FLER/L

- Right hand shown
- Right hand holders (R) take left hand (L) inserts
- Left hand holders (L) take right hand (R) inserts



ProductName	Cutting Depth Maximum (CDX)	Minimum Bore Diameter (DMIN)	Overall Length (OAL)	Functional Width (WF)	Order No.	Regular Price	SALE
Int Threading Toolholder- A08-LO-CEL2-1/2" SH-8" OAL-LH	0.5"	0.73"	8"	0.437"	009600	150.93	137.33
Int Threading Toolholder- A08-LO-CER2-1/2" SH-8" OAL-RH	0.5"	0.73"	8"	0.437"	009610	150.93	137.37
Int Threading Toolholder- A10-LO-CEL2-5/8" SH-10" OAL-LH	5/8"	1"	10"	1/2"	009640	177.37	161.43
Int Threading Toolholder- A10-LO-CER2-5/8" SH-10" OAL-RH	0.625"	1"	10"	0.5"	009650	177.37	161.39
Int Threading Toolholder- A12-LO-CEL2-3/4" SH-10" OAL-LH	0.75"	1.125"	10"	0.562"	009680	215.66	196.23
Int Threading Toolholder- A12-LO-CER2-3/4" SH-10" OAL-RH	0.75"	1.125"	10"	0.562"	009690	215.66	196.23
A16-FLEL2	1"	1-3/8"	12"	0.688"	009750	281.32	256.03
Int Threading Toolholder- A16-LO-CEL3-1" SH-12" OAL-LH	1"	1.375"	12"	0.688"	009760	281.32	256.03
A16-FLER2	1"	1-3/8"	12"	0.688"	009770	281.32	256.03
Int Threading Toolholder- A16-LO-CER3-1" SH-12" OAL-RH	1"	1.375"	12"	0.688"	009780	281.32	256.03
Int Threading Toolholder- 1-1/4" SH-14" OAL-LH	1.5"	1.75"	14"	0.875"	009890	299.51	272.56
A24-FLER3	1-1/2"	2"	14"	1"	010000	352.39	320.68
Int Threading Toolholder- A28-FLEL4 1-3/4"ASH-16" OAL-LH	1.75"	2.25"	14"	1.25"	010100	387.03	352.24
A28-FLER3	1-3/4"	2-1/4"	14"	1-1/8"	010110	387.01	352.21
Int Threading Toolholder- A28-FLER4 1-3/4"ASH-16" OAL-RH	1.75"	2.25"	14"	1.25"	010120	387.01	352.21
A32-FLEL3	2"	2-1/2"	16"	1-1/4"	010190	423.93	385.82
A32-FLEL4	2"	2-3/4"	16"	1.296"	010200	423.93	385.82
A32-FLEL6 Internal Threading Toolholder	2"	2-3/4"	16"	1-3/8"	010210	423.93	385.82
A32-FLER3	2"	2-1/2"	16"	1-1/4"	010220	423.93	385.82
A32-FLER4	2"	2-3/4"	16"	1.296"	010230	423.93	385.82
A32-FLER6	2"	2-3/4"	16"	1-3/8"	010240	423.93	385.82

† "F" DIM. over sharp point of grooving insert

9489

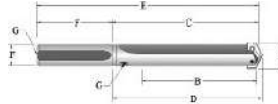
KEO Solid Carbide NC Spotting Drills**82°, 90° and 120°**

- Perfect for hard to reach areas
- Narrow chisel edge for quick starting
- Constant web which allows for resharpener without the need for web thinning



Drill Bit Size / Cutting Diameter (DC)	Flute Length	Overall Length (OAL)	120 Degrees			90 Degrees			82 Degrees		
			Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
1/8"	3/8"	1-1/2"	34181	21.99	19.78	34180	21.99	19.78	34182	21.00	18.86
3/16"	9/16"	2"	34188	28.90	25.99	34187	28.90	25.99	34185	27.59	24.87
1/4"	3/4"	2-1/2"	34141	36.87	33.14	34140	36.87	33.14	34145	35.22	31.70
5/16"	3/4"	2-1/2"	34313	44.48	40.07	34312	44.48	40.07	34315	42.49	38.23
3/8"	3/4"	2-1/2"	34381	50.90	45.77	34380	50.90	45.77	34385	48.63	43.74
1/2"	1"	3"	34121	79.60	71.67	34120	79.60	71.67	34125	76.03	68.40
5/8"	1"	3-1/2"	34581	146.59	131.91	34580	146.59	131.91	-	-	-
3/4"	1-1/8"	4"	34341	244.66	220.19	34340	244.66	220.19	34345	233.68	210.30

9886

ALLIED MACHINE & ENGINEERING CORP **Allied T-A® Drill Insert Straight Shank Holders Straight Flute Coolant Fed**


Cutting Diameter (DC)	Usable Length (LU)	Protruding Length (LPR)	Connection Diameter Machine Side (DCONMS)	Shank Length (LS)	Order No.	Regular Price	SALE
-	1-3/8"	2-3/16"	3/4"	2-3/8"	22000S075L	241.02	229.01
-	2-5/8"	3-7/8"	3/4"	3"	22010S075L	251.32	238.76
-	2-5/8"	3-7/8"	1"	3"	22010S100L	251.32	238.76
-	3-3/8"	4-1/2"	1"	3-1/2"	22020S100L	270.89	257.39
-	3-3/8"	4-1/2"	1-1/4"	3-1/2"	22020S125L	270.89	257.39
-	4-3/4"	6"	1-1/4"	4"	22030S125L	309.00	293.54
-	4-3/4"	6"	1-1/2"	4"	22030S150L	326.51	310.14
-	5-1/8"	6-1/2"	1-1/2"	4"	22040S150L	356.35	337.62
-	5-1/8"	6-1/2"	1-3/4"	4"	22040S175L	374.92	356.20
-	6-3/4"	8-1/2"	2"	4"	22050S200L	563.41	535.25
-	6-3/4"	8-7/8"	3"	5"	22070S300L	766.32	727.98
-	1-1/4"	2-1/32"	3/4"	2-3/8"	220Y0S075L	241.02	229.01
-	1-1/4"	2-1/32"	3/4"	2-3/8"	220Z0S075L	241.02	229.01
-	6-1/2"	7-3/4"	1-1/2"	4"	23030S150L	335.78	319.02
-	2-1/2"	3-5/16"	3/4"	2-3/8"	24000S075L	248.23	235.81
-	6-5/8"	7-7/8"	3/4"	3"	24010S075L	270.89	257.39
-	6-5/8"	7-7/8"	1"	3"	24010S100L	270.89	257.39
-	7-3/8"	8-1/2"	1"	3-1/2"	24020S100L	292.52	277.86
-	7-3/8"	8-1/2"	1-1/4"	3-1/2"	24020S125L	292.52	277.86
-	8-1/4"	9-1/2"	1-1/4"	4"	24030S125L	326.51	310.14
-	8-1/4"	9-1/2"	1-1/2"	4"	24030S150L	348.14	330.72
-	22"	23-1/4"	1-1/2"	4"	27030S150L	584.01	554.83
-	9-1/8"	10-1/2"	1-1/2"	4"	24040S150L	410.97	390.38
-	9-1/8"	10-1/2"	1-3/4"	4"	24040S175L	442.90	420.73
-	24-5/8"	26"	1-1/2"	4"	27040S150L	683.92	649.74
-	10-3/4"	12-1/2"	2"	4"	24050S200L	619.03	588.11
-	18-1/4"	20"	2"	4"	25050S200L	841.51	799.43
-	26"	27-3/4"	2"	4"	27050S200L	987.77	938.41
-	10-3/4"	12-7/8"	3"	5"	24070S300L	915.67	869.87
-	27"	29-1/8"	3"	5"	27070S300L	1480.11	1406.12
-	21-7/8"	24"	3"	5"	25070S300L	1302.95	1237.85
-	2-3/8"	3-5/32"	3/4"	2-3/8"	240Y0S075L	248.23	235.81
-	2-3/8"	3-5/32"	3/4"	2-3/8"	240Z0S075L	248.23	235.81
-	4-1/2"	5-5/16"	3/4"	2-3/8"	25000S075L	263.68	250.48
-	10-5/8"	11-7/8"	1"	3"	25010S100L	311.06	295.54
-	18"	19-1/4"	1"	3"	27010S100L	375.95	357.20
-	11-3/8"	12-1/2"	1-1/4"	3-1/2"	25020S125L	348.14	330.72
-	4-3/8"	5-5/32"	3/4"	2-3/8"	250Y0S075L	263.68	250.48
-	4-3/8"	5-5/32"	3/4"	2-3/8"	250Z0S075L	263.68	250.48
-	8-3/4"	9-17/32"	3/4"	2-3/8"	270Y0S075L	303.85	288.66
-	5-3/8"	6-1/2"	1-1/4"	3-1/2"	23020S125L	285.31	271.06
-	8-3/4"	9-17/32"	3/4"	2-3/8"	270Z0S075L	303.85	288.66
-	4-5/8"	5-7/8"	1"	3"	23010S100L	263.68	250.48
-	13-3/4"	15"	1-1/4"	4"	25030S125L	452.17	429.53
-	20-1/8"	21-1/4"	1-1/4"	3-1/2"	27020S125L	403.76	383.58
-	11-5/8"	12-7/16"	3/4"	2-3/8"	27000S075L	338.87	321.92
-	16-5/8"	18"	1-1/2"	4"	25040S150L	500.58	475.59

9673

KEO Solid Carbide 142° Point Angle Spotting Drill

- Great for steel & stainless steel applications
- Prepares a hole for a high performance drill with a 130°-140° point angle



Point Diameter (PDD)	Flute Length	Overall Length (OAL)	Order No.	Regular Price	SALE
1/8"	5/8"	1-1/2"	34184	21.99	19.78
3/16"	9/16"	2"	34189	28.90	25.99
1/4"	13/16"	2-1/2"	34144	36.87	33.14
5/16"	3/4"	2-1/2"	34314	44.48	40.07
3/8"	3/4"	2-1/2"	34384	50.90	45.77
1/2"	1-1/8"	3"	34124	79.60	71.67
5/8"	1"	3-1/2"	34584	146.59	131.91
3/4"	1-1/8"	4"	34344	244.66	220.19

9886

ALLIED MACHINE & ENGINEERING CORP Solid Carbide T-A® Drill Inserts**Series 2 - Blade Thickness - 3/16"**

- **C5** carbide is for general use in steel applications. It offers exceptionally high wear resistance. High machine tool rigidity is required.
- **C1** carbide is primarily for steel applications. This carbide offers wear characteristics similar to C5 carbide. In addition to its wear characteristics C1 carbide is considerably more durable when compared to other carbide grades.
- **C2** is for use in non-ferrous applications (high temperature alloys, stainless steels, aluminums, cast irons). It offers exceptionally high wear resistance. High machine tool rigidity is required.



Grade - C2 (K20)			
Coating - TiAlN			
Cutting Diameter (DC)	Order No.	Regular Price	SALE
31/32"	1C22A0031	88.07	83.68
1"	1C22A0100	88.07	83.68
1-1/32"	1C22A0101	88.07	83.68
1-3/64"	1C22A1046	88.07	83.68
1-1/16"	1C22A0102	88.07	83.68
1-3/32"	1C22A0103	88.07	83.68
1-7/64"	1C22A1109	88.07	83.68
1-1/8"	1C22A0104	88.07	83.68
1-5/32"	1C22A0105	88.07	83.68
1-3/16"	1C22A0106	88.07	83.68
1-7/32"	1C22A0107	88.07	83.68
1-1/4"	1C22A0108	88.07	83.68
1-9/32"	1C22A0109	88.07	83.68
1-5/16"	1C22A0110	88.07	83.68
1-11/32"	1C22A0111	88.07	83.68
1-3/8"	1C22A0112	88.07	83.68

Grade - C5 (P40)			
Coating - TiAlN			
Cutting Diameter (DC)	Order No.	Regular Price	SALE
31/32"	1C52A0031	88.07	83.68
1"	1C52A0100	88.07	83.68
1-1/32"	1C52A0101	88.07	83.68
1-3/64"	1C52A1046	88.07	83.68
1-1/16"	1C52A0102	88.07	83.68
1-3/32"	1C52A0103	88.07	83.68
1-7/64"	1C52A1109	88.07	83.68
1-1/8"	1C52A0104	88.07	83.68
1-5/32"	1C52A0105	88.07	83.68
1-3/16"	1C52A0106	88.07	83.68
1-7/32"	1C52A0107	88.07	83.68
1-1/4"	1C52A0108	88.07	83.68
1-9/32"	1C52A0109	88.07	83.68
1-5/16"	1C52A0110	88.07	83.68
1-11/32"	1C52A0111	88.07	83.68
1-3/8"	1C52A0112	88.07	83.68
25 mm	1C52A25	84.72	83.68
26 mm	1C52A26	84.72	83.68
27 mm	1C52A27	84.72	83.68
28 mm	1C52A28	84.72	83.68
29 mm	1C52A29	84.72	83.68
30 mm	1C52A30	84.72	83.68
31 mm	1C52A31	84.72	83.68
32 mm	1C52A32	84.72	83.68
33 mm	1C52A33	84.72	83.68
34 mm	1C52A34	84.72	83.68
35 mm	1C52A35	84.72	83.68

9659

CUTTING TOOLS

A Brand® - ADO-SUS High Performance Carbide Drills



For Stainless Steel

- List 5210
- 5XD
- Coolant-Through
- WXL Coating
- 140° Point Angle

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
2 mm	-	3 mm	18 mm	70 mm	8667200	116.69	105.02
2.1 mm	-	3 mm	19 mm	70 mm	8667210	116.69	105.02
2.2 mm	-	3 mm	20 mm	70 mm	8667220	116.69	105.02
2.3 mm	-	3 mm	21 mm	70 mm	8667230	116.69	105.02
3/32"	0.0938"	3 mm	22 mm	70 mm	521009312	116.69	105.02
2.4 mm	-	3 mm	22 mm	70 mm	8667240	116.69	105.02
2.5 mm	-	3 mm	23 mm	70 mm	8667250	116.69	105.02
2.6 mm	-	3 mm	24 mm	78 mm	8667260	116.69	105.02
2.7 mm	-	3 mm	25 mm	78 mm	8667270	116.69	105.02
2.76 mm	-	3 mm	25 mm	78 mm	8667276	116.69	105.02
2.78 mm	-	3 mm	26 mm	78 mm	8667278	116.69	105.02
2.8 mm	-	3 mm	26 mm	78 mm	8667280	116.69	105.02
2.9 mm	-	3 mm	27 mm	78 mm	8667290	116.69	105.02
3 mm	-	3 mm	27 mm	78 mm	8667300	116.69	105.02
3.1 mm	-	4 mm	28 mm	86 mm	8667310	120.80	108.72
3.15 mm	-	4 mm	29 mm	86 mm	8667315	120.80	108.72
1/8"	0.125"	1/8"	29 mm	86 mm	521012512	120.80	108.72
3.2 mm	-	4 mm	29 mm	86 mm	8667320	120.80	108.72
3.26 mm	-	4 mm	29 mm	86 mm	8667326	120.80	108.72
3.3 mm	-	4 mm	30 mm	86 mm	8667330	120.80	108.72
3.4 mm	-	4 mm	31 mm	86 mm	8667340	120.80	108.72
3.5 mm	-	4 mm	32 mm	86 mm	8667350	120.80	108.72
3.6 mm	-	4 mm	33 mm	86 mm	8667360	122.07	109.86
3.66 mm	-	4 mm	33 mm	86 mm	8667366	122.07	109.86
3.68 mm	-	4 mm	34 mm	86 mm	8667368	122.07	109.86
3.7 mm	-	4 mm	34 mm	86 mm	8667370	122.07	109.86
3.75 mm	-	4 mm	34 mm	86 mm	8667375	122.07	109.86
3.8 mm	-	4 mm	35 mm	86 mm	8667380	122.07	109.86
3.9 mm	-	4 mm	36 mm	86 mm	8667390	122.07	109.86
5/32"	0.1563"	4 mm	36 mm	86 mm	521015612	122.07	109.86
4 mm	-	4 mm	36 mm	86 mm	8667400	122.07	109.86
#20	-	6 mm	37 mm	95 mm	521016112	125.33	112.80
4.1 mm	-	5 mm	37 mm	95 mm	8667410	125.33	112.80
4.1 mm	-	6 mm	37 mm	95 mm	8682410	125.33	112.80
4.2 mm	-	5 mm	38 mm	95 mm	8667420	125.33	112.80
4.2 mm	-	6 mm	38 mm	95 mm	8682420	125.33	112.80
4.3 mm	-	5 mm	39 mm	95 mm	8667430	125.33	112.80
4.3 mm	-	6 mm	39 mm	95 mm	8682430	125.33	112.80
1/16"	0.1719"	3/16"	40 mm	95 mm	521017112	125.33	112.80
4.4 mm	-	5 mm	40 mm	95 mm	8667440	125.33	112.80
4.4 mm	-	6 mm	40 mm	95 mm	8682440	125.33	112.80
4.5 mm	-	5 mm	41 mm	95 mm	8667450	125.33	112.80
4.5 mm	-	6 mm	41 mm	95 mm	8682450	125.33	112.80
4.6 mm	-	5 mm	42 mm	95 mm	8667460	128.16	115.34
4.6 mm	-	6 mm	42 mm	95 mm	8682460	128.16	115.34
4.62 mm	-	5 mm	42 mm	95 mm	8667462	128.16	115.34
4.64 mm	-	5 mm	42 mm	95 mm	8667464	128.16	115.34
4.7 mm	-	5 mm	43 mm	95 mm	8667470	128.16	115.34
4.7 mm	-	6 mm	43 mm	95 mm	8682470	128.16	115.34
3/16"	0.1875"	3/16"	44 mm	95 mm	521018712	128.16	115.34
4.8 mm	-	5 mm	44 mm	95 mm	8667480	128.16	115.34
4.8 mm	-	6 mm	44 mm	95 mm	8682480	128.16	115.34
4.85 mm	-	6 mm	44 mm	95 mm	8667485	128.16	115.34
4.9 mm	-	5 mm	45 mm	95 mm	8667490	128.16	115.34
4.9 mm	-	6 mm	45 mm	95 mm	8682490	128.16	115.34
5 mm	-	5 mm	45 mm	95 mm	8667500	128.16	115.34
5 mm	-	6 mm	45 mm	95 mm	8682500	128.16	115.34
5.1 mm	-	6 mm	41 mm	100 mm	8667510	135.71	122.14
13/64"	0.2031"	1/4"	42 mm	100 mm	521020312	135.71	122.14
5.2 mm	-	6 mm	42 mm	100 mm	8667520	135.71	122.14
5.25 mm	-	6 mm	42 mm	100 mm	8667525	135.71	122.14
5.3 mm	-	6 mm	43 mm	100 mm	8667530	135.71	122.14
5.4 mm	-	6 mm	44 mm	100 mm	8667540	135.71	122.14

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
#3	-	6 mm	44 mm	100 mm	521021312	135.71	122.14
5.5 mm	-	6 mm	44 mm	100 mm	8667550	135.71	122.14
5.52 mm	-	6 mm	45 mm	100 mm	8667552	143.28	128.95
5.54 mm	-	6 mm	45 mm	100 mm	8667554	143.28	128.95
7/32"	0.2188"	1/4"	45 mm	100 mm	521021812	143.28	128.95
5.6 mm	-	6 mm	45 mm	100 mm	8667560	143.28	128.95
5.7 mm	-	6 mm	46 mm	100 mm	8667570	143.28	128.95
5.8 mm	-	6 mm	47 mm	100 mm	8667580	143.28	128.95
5.9 mm	-	6 mm	48 mm	100 mm	8667590	143.28	128.95
15/64"	0.2344"	1/4"	48 mm	100 mm	521023412	143.28	128.95
6 mm	-	6 mm	48 mm	100 mm	8667600	143.28	128.95
6.1 mm	-	7 mm	49 mm	109 mm	8667610	143.28	128.95
6.1 mm	-	8 mm	49 mm	109 mm	8682610	143.28	128.95
6.2 mm	-	7 mm	50 mm	109 mm	8667620	143.28	128.95
6.2 mm	-	8 mm	50 mm	109 mm	8682620	143.28	128.95
6.25 mm	-	7 mm	50 mm	109 mm	8667625	143.28	128.95
6.3 mm	-	7 mm	51 mm	109 mm	8667630	143.28	128.95
6.3 mm	-	8 mm	51 mm	109 mm	8682630	143.28	128.95
1/4"	0.25"	1/4"	52 mm	109 mm	8667635	143.28	128.95
6.4 mm	-	7 mm	52 mm	109 mm	8667640	143.28	128.95
6.4 mm	-	8 mm	52 mm	109 mm	8682640	143.28	128.95
6.5 mm	-	7 mm	52 mm	109 mm	8667650	143.28	128.95
6.5 mm	-	8 mm	52 mm	109 mm	8682650	143.28	128.95
F	-	8 mm	53 mm	109 mm	521025712	151.83	136.65
6.6 mm	-	7 mm	53 mm	109 mm	8667660	151.83	136.65
6.6 mm	-	8 mm	53 mm	109 mm	8682660	151.83	136.65
6.7 mm	-	7 mm	54 mm	109 mm	8667670	151.83	136.65
6.7 mm	-	8 mm	54 mm	109 mm	8682670	151.83	136.65
17/64"	0.2656"	5/16"	55 mm	109 mm	521026512	151.83	136.65
6.75 mm	-	7 mm	54 mm	109 mm	8667675	151.83	136.65
6.8 mm	-	7 mm	55 mm	109 mm	8667680	151.83	136.65
6.8 mm	-	8 mm	55 mm	109 mm	8682680	151.83	136.65
6.9 mm	-	7 mm	56 mm	109 mm	8667690	151.83	136.65
6.9 mm	-	8 mm	56 mm	109 mm	8682690	151.83	136.65
7 mm	-	7 mm	56 mm	109 mm	8667700	168.73	151.86
7 mm	-	8 mm	56 mm	109 mm	8682700	168.73	151.86
7.1 mm	-	8 mm	57 mm	118 mm	8667710	178.21	160.39
9/32"	0.2813"	5/16"	58 mm	118 mm	521028112	178.21	160.39
7.2 mm	-	8 mm	58 mm	118 mm	8667720	178.21	160.39
7.25 mm	-	8 mm	58 mm	118 mm	8667725	178.21	160.39
7.3 mm	-	8 mm	59 mm	118 mm	8667730	178.21	160.39
7.36 mm	-	8 mm	59 mm	118 mm	8667736	178.21	160.39
7.38 mm	-	8 mm	60 mm	118 mm	8667738	178.21	160.39
7.4 mm	-	8 mm	60 mm	118 mm	8667740	178.21	160.39
7.5 mm	-	8 mm	60 mm	118 mm	8667750	178.21	160.39
7.52 mm	-	8 mm	61 mm	118 mm	8667752	178.21	160.39
19/64"	0.2969"	5/16"	60 mm	118 mm	521029612	188.43	169.59
7.54 mm	-	8 mm	61 mm	118 mm	8667754	188.43	169.59
7.6 mm	-	8 mm	61 mm	118 mm	8667760	188.43	169.59
7.7 mm	-	8 mm	62 mm	118 mm	8667770	188.43	169.59
7.75 mm	-	8 mm	62 mm	118 mm	8667775	188.43	169.59
7.8 mm	-	8 mm	63 mm	118 mm	8667780	188.43	169.59
7.9 mm	-	8 mm	64 mm	118 mm	8667790	188.43	169.59
5/16"	0.3125"	5/16"	64 mm	118 mm	521031212	188.43	169.59
8 mm	-	8 mm	64 mm	118 mm	8667800	188.43	169.59
8.1 mm	-	9 mm	65 mm	128 mm	8667810	207.42	186.68
8.1 mm	-	10 mm	65 mm	128 mm	8682810	207.42	186.68
8.2 mm	-	9 mm	66 mm	128 mm	8667820	207.42	186.68
8.2 mm	-	10 mm	66 mm	128 mm	8682820	207.42	186.68
8.25 mm	-	9 mm	66 mm	128 mm	8667825	207.42	186.68
8.3 mm	-	9 mm	67 mm	128 mm	8667830	207.42	186.68
8.3 mm	-	10 mm	67 mm	128 mm	8682830	207.42	186.68
21/64"	0.3281"	3/8"	67 mm	128 mm	521032812	207.42	186.68
8.4 mm	-	9 mm	68 mm	128 mm	8667840	207.42	186.68
8.4 mm	-	10 mm	68 mm	128 mm	8682840	207.42	186.68
Q	-	10 mm	68 mm	128 mm	521033212	207.42	186.68
8.5 mm	-	9 mm	68 mm	128 mm	8667850	207.42	186.68
8.5 mm	-	10 mm	68 mm	128 mm	8682850	207.42	186.68
8.6 mm	-	9 mm	69 mm	128 mm	8667860	216.41	194.77
8.6 mm	-	10 mm	69 mm	128 mm	8682860	216.41	194.77
8.7 mm	-	9 mm	70 mm	128 mm	8667870	216.41	194.77
8.7 mm	-	10 mm	70 mm	128 mm	8682870	216.41	194.77
11/32"	0.3438"	3/8"	70 mm	128 mm	521034312	216.41	194.77
8.75 mm	-	9 mm	70 mm	128 mm	8667875	216.41	194.77
8.8 mm	-	9 mm	71 mm	128 mm	8667880	216.41	194.77

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
8.8 mm	-	10 mm	71 mm	128 mm	8682880	216.41	194.77
8.9 mm	-	9 mm	72 mm	128 mm	8667890	216.41	194.77
8.9 mm	-	10 mm	72 mm	128 mm	8682890	216.41	194.77
9 mm	-	9 mm	72 mm	128 mm	8667900	216.41	194.77
9 mm	-	10 mm	72 mm	128 mm	8682900	216.41	194.77
9.1 mm	-	10 mm	73 mm	136 mm	8667910	227.07	204.36
23/64"	0.3594"	3/8"	73 mm	136 mm	521035912	227.07	204.36
9.2 mm	-	10 mm	74 mm	136 mm	8667920	227.07	204.36
9.24 mm	-	10 mm	74 mm	136 mm	8667924	227.07	204.36
9.25 mm	-	10 mm	74 mm	136 mm	8667925	227.07	204.36
9.26 mm	-	10 mm	75 mm	136 mm	8667926	227.07	204.36
9.3 mm	-	10 mm	75 mm	136 mm	8667930	227.07	204.36
9.36 mm	-	10 mm	75 mm	136 mm	8667936	227.07	204.36
9.38 mm	-	10 mm	76 mm	136 mm	8667938	227.07	204.36
9.4 mm	-	10 mm	76 mm	136 mm	8667940	227.07	204.36
9.5 mm	-	10 mm	76 mm	136 mm	8667950	227.07	204.36
9.52 mm	-	10 mm	77 mm	136 mm	8667952	247.69	222.92
3/8"	0.375"	3/8"	76 mm	136 mm	521037512	247.69	222.92
9.54 mm	-	10 mm	77 mm	136 mm	8667954	247.69	222.92
9.6 mm	-	10 mm	77 mm	136 mm	8667960	247.69	222.92
9.7 mm	-	10 mm	78 mm	136 mm	8667970	247.69	222.92
9.75 mm	-	10 mm	78 mm	136 mm	8667975	247.69	222.92
9.8 mm	-	10 mm	79 mm	136 mm	8667980	247.69	222.92
9.9 mm	-	10 mm	80 mm	136 mm	8667990	247.69	222.92
25/64"	0.3906"	7/16"	80 mm	136 mm	521039012	247.69	222.92
10 mm	-	10 mm	80 mm	136 mm	8668000	247.69	222.92
10.1 mm	-	11 mm	81 mm	146 mm	8668010	266.02	239.42
10.1 mm	-	12 mm	81 mm	146 mm	8683010	266.02	239.42
10.2 mm	-	11 mm	82 mm	146 mm	8668020	266.02	239.42
10.2 mm	-	12 mm	82 mm	146 mm	8683020	266.02	239.42
10.25 mm	-	11 mm	82 mm	146 mm	8668025	266.02	239.42
10.3 mm	-	11 mm	83 mm	146 mm	8668030	266.02	239.42
10.3 mm	-	12 mm	83 mm	146 mm	8683030	266.02	239.42
13/32"	0.4063"	7/16"	83 mm	146 mm	521040612	266.02	239.42
10.4 mm	-	11 mm	84 mm	146 mm	8668040	266.02	239.42
10.4 mm	-	12 mm	84 mm	146 mm	8683040	266.02	239.42
10.5 mm	-	11 mm	84 mm	146 mm	8668050	266.02	239.42
10.5 mm	-	12 mm	84 mm	146 mm	8683050	266.02	239.42
10.6 mm	-	11 mm	85 mm	146 mm	8668060	274.53	247.08
10.6 mm	-	12 mm	85 mm	146 mm	8683060	274.53	247.08
10.7 mm	-	11 mm	86 mm	146 mm	8668070	274.53	247.08
10.7 mm	-	12 mm	86 mm	146 mm	8683070	274.53	247.08
27/64"	0.4219"	7/16"	86 mm	146 mm	521042212	274.53	247.08
10.75 mm	-	11 mm	86 mm	146 mm	8668075	274.53	247.08
10.8 mm	-	11 mm	87 mm	146 mm	8668080	274.53	247.08
10.8 mm	-	12 mm	87 mm	146 mm	8683080	274.53	247.08
10.9 mm	-	11 mm	88 mm	146 mm	8668090	274.53	247.08
10.9 mm	-	12 mm	88 mm	146 mm	8683090	274.53	247.08
11 mm	-	11 mm	88 mm	146 mm	8668100	274.53	247.08
11 mm	-	12 mm	88 mm	146 mm	8683100	274.53	247.08
11.1 mm	-	12 mm	89 mm	156 mm	8668110	284.76	256.28
7/16"	0.4375"	7/16"	89 mm	156 mm	521043812	284.76	256.28
11.2 mm	-	12 mm	90 mm	156 mm	8668120	284.76	256.28
11.22 mm	-	12 mm	90 mm	156 mm	8668122	284.76	256.28
11.24 mm	-	12 mm	90 mm	156 mm	8668124	284.76	256.28
11.3 mm	-	12 mm	91 mm	156 mm	8668130	284.76	256.28
11.36 mm	-	12 mm	91 mm	156 mm	8668136	284.76	256.28
11.38 mm	-	12 mm	92 mm	156 mm	8668138	284.76	256.28
11.4 mm	-	12 mm	92 mm	156 mm	8668140	284.76	256.28
11.5 mm	-	12 mm	92 mm	156 mm	8668150	306.61	275.95
29/64"	0.4531"	1/2"	92 mm	156 mm	521045312	317.61	285.85
11.6 mm	-	12 mm	93 mm	156 mm	8668160	317.61	285.85
11.7 mm	-	12 mm	94 mm	156 mm	8668170	317.61	285.85
11.8 mm	-	12 mm	95 mm	156 mm	8668180	317.61	285.85
11.9 mm	-	12 mm	96 mm	156 mm	8668190	317.61	285.85
12 mm	-	12 mm	96 mm	156 mm	8668200	317.61	285.85
12.1 mm	-	13 mm	97 mm	167 mm	8668210	317.61	285.85
12.1 mm	-	14 mm	97 mm	167 mm	8683210	317.61	285.85
12.2 mm	-	13 mm	98 mm	167 mm	8668220	317.61	285.85
12.2 mm	-	14 mm	98 mm	167 mm	8683220	317.61	285.85
12.3 mm	-	13 mm	99 mm	167 mm	8668230	317.61	285.85
12.3 mm	-	14 mm	99 mm	167 mm	8683230	317.61	285.85
31/64"	0.4844"	1/2"	99 mm	167 mm	521048512	317.61	285.85
12.4 mm	-	13 mm	100 mm	167 mm	8668240	317.61	285.85
12.4 mm	-	14 mm	100 mm	167 mm	8683240	317.61	285.85

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
12.5 mm	-	13 mm	100 mm	167 mm	8668250	317.61	285.85
12.5 mm	-	14 mm	100 mm	167 mm	8683250	317.61	285.85
12.6 mm	-	13 mm	101 mm	167 mm	8668260	328.54	295.69
12.6 mm	-	14 mm	101 mm	167 mm	8683260	328.54	295.69
1/2"	0.5"	1/2"	102 mm	167 mm	521050012	328.54	295.69
12.7 mm	-	13 mm	102 mm	167 mm	8668270	328.54	295.69
12.75 mm	-	13 mm	103 mm	167 mm	8668275	328.54	295.69
12.8 mm	-	13 mm	103 mm	167 mm	8668280	328.54	295.69
12.8 mm	-	14 mm	103 mm	167 mm	8683280	328.54	295.69
12.9 mm	-	13 mm	104 mm	167 mm	8668290	328.54	295.69
12.9 mm	-	14 mm	104 mm	167 mm	8683290	328.54	295.69
13 mm	-	13 mm	104 mm	167 mm	8668300	328.54	295.69
13 mm	-	14 mm	104 mm	167 mm	8683300	328.54	295.69
13.1 mm	-	14 mm	105 mm	176 mm	8668310	328.54	295.69
13.2 mm	-	14 mm	106 mm	176 mm	8668320	328.54	295.69
13.25 mm	-	14 mm	106 mm	176 mm	8668325	328.54	295.69
13.3 mm	-	14 mm	107 mm	176 mm	8668330	328.54	295.69
13.4 mm	-	14 mm	108 mm	176 mm	8668340	328.54	295.69
17/32"	0.5313"	5/8"	108 mm	176 mm	521053112	328.54	295.69
13.5 mm	-	14 mm	108 mm	176 mm	8668350	339.29	305.36
13.6 mm	-	14 mm	109 mm	176 mm	8668360	339.29	305.36
13.7 mm	-	14 mm	110 mm	176 mm	8668370	339.29	305.36
13.8 mm	-	14 mm	111 mm	176 mm	8668380	339.29	305.36
13.9 mm	-	14 mm	112 mm	176 mm	8668390	339.29	305.36
14 mm	-	14 mm	112 mm	176 mm	8668400	348.78	313.90
14.1 mm	-	16 mm	113 mm	185 mm	521055512	360.02	324.02
14.1 mm	-	15 mm	113 mm	185 mm	8668410	360.02	324.02
14.2 mm	-	16 mm	114 mm	185 mm	521055912	360.02	324.02
14.2 mm	-	15 mm	114 mm	185 mm	8668420	360.02	324.02
9/16"	0.5625"	5/8"	115 mm	185 mm	521056212	360.02	324.02
14.3 mm	-	16 mm	115 mm	185 mm	521056312	360.02	324.02
14.3 mm	-	15 mm	115 mm	185 mm	8668430	360.02	324.02
14.4 mm	-	16 mm	116 mm	185 mm	521056612	360.02	324.02
14.4 mm	-	15 mm	116 mm	185 mm	8668440	360.02	324.02
14.5 mm	-	15 mm	116 mm	185 mm	8668450	360.02	324.02
14.5 mm	-	16 mm	116 mm	185 mm	8683450	360.02	324.02
14.6 mm	-	16 mm	117 mm	185 mm	521057412	370.54	333.49
14.6 mm	-	15 mm	117 mm	185 mm	8668460	370.54	333.49
14.7 mm	-	16 mm	118 mm	185 mm	521057812	370.54	333.49
14.7 mm	-	15 mm	118 mm	185 mm	8668470	370.54	333.49
14.8 mm	-	16 mm	119 mm	185 mm	521058212	370.54	333.49
14.8 mm	-	15 mm	119 mm	185 mm	8668480	370.54	333.49
14.9 mm	-	16 mm	120 mm	185 mm	521058612	370.54	333.49
14.9 mm	-	15 mm	120 mm	185 mm	8668490	370.54	333.49
15 mm	-	15 mm	120 mm	185 mm	8668500	370.54	333.49
15 mm	-	16 mm	120 mm	185 mm	8683500	370.54	333.49
15.1 mm	-	16 mm	121 mm	193 mm	8668510	383.68	345.31
15.2 mm	-	16 mm	122 mm	193 mm	8668520	383.68	345.31
15.25 mm	-	16 mm	122 mm	193 mm	8668525	383.68	345.31
15.3 mm	-	16 mm	123 mm	193 mm	8668530	383.68	345.31
15.4 mm	-	16 mm	124 mm	193 mm	8668540	383.68	345.31
15.5 mm	-	16 mm	124 mm	193 mm	8668550	383.68	345.31
15.6 mm	-	16 mm	125 mm	193 mm	8668560	396.78	357.10
15.7 mm	-	16 mm	126 mm	193 mm	8668570	396.78	357.10
15.8 mm	-	16 mm	127 mm	193 mm	8668580	396.78	357.10
5/8"	0.625"	5/8"	128 mm	193 mm	521062512	396.78	357.10
15.9 mm	-	16 mm	128 mm	193 mm	8668590	396.78	357.10
16 mm	-	16 mm	128 mm	193 mm	8668600	396.78	357.10
16.1 mm	-	18 mm	113 mm	184 mm	521063312	439.88	395.89
16.5 mm	-	17 mm	116 mm	184 mm	8668650	439.88	395.89
16.5 mm	-	18 mm	116 mm	184 mm	8683650	439.88	395.89
21/32"	0.6563"	3/4"	117 mm	184 mm	521065612	463.48	417.13
17 mm	-	17 mm	119 mm	184 mm	8668700	480.92	432.83
17 mm	-	18 mm	119 mm	184 mm	8683700	480.92	432.83
17.5 mm	-	18 mm	123 mm	191 mm	8668750	522.93	470.64
18 mm	-	18 mm	126 mm	191 mm	8668800	567.63	510.87
18.5 mm	-	19 mm	130 mm	198 mm	8668850	617.56	555.80
18.5 mm	-	20 mm	130 mm	198 mm	8683850	617.56	555.80
19 mm	-	19 mm	133 mm	198 mm	8668900	641.18	577.06
19 mm	-	20 mm	133 mm	198 mm	8683900	641.18	577.06
19.25 mm	-	20 mm	135 mm	205 mm	521075712	656.96	591.26
19.5 mm	-	20 mm	137 mm	205 mm	8668950	656.96	591.26
20 mm	-	20 mm	140 mm	205 mm	8669000	677.99	610.19

CUTTING TOOLS



5xD Multi-DRILL™



A single tool geometry for steel, stainless steel, cast iron, aluminum, and more.

- Advanced sub-micro grain carbide substrate
- Axial coolant fed design
- Four facet - 140 point angle
- Cut diameter - m7 flute tolerance range
- TIALN-T63 multi-layer PVD hard coating for heat and wear resistance
- Unique core web construction allows for maximum chip evacuation rates
- HA style cylindrical shank DIN 6535
- Shank diameter - h6 shank tolerance range

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Reg-ular Price	SALE
3 mm	-	6 mm	28 mm	66 mm	A2197440300	88.94	84.50
3.1 mm	-	6 mm	28 mm	66 mm	A2197440310	88.94	84.50
3.15 mm	-	6 mm	28 mm	66 mm	A2197440315	88.94	84.50
1/8"	0.125"	6 mm	28 mm	66 mm	A2197440318	88.94	84.50
3.2 mm	-	6 mm	28 mm	66 mm	A2197440320	88.94	84.50
3.22 mm	-	6 mm	28 mm	66 mm	A2197440322	88.94	84.50
3.25 mm	-	6 mm	28 mm	66 mm	A2197440325	88.94	84.50
3.3 mm	-	6 mm	28 mm	66 mm	A2197440330	88.94	84.50
3.35 mm	-	6 mm	28 mm	66 mm	A2197440335	88.94	84.50
3.38 mm	-	6 mm	28 mm	66 mm	A2197440338	88.94	84.50
3.4 mm	-	6 mm	28 mm	66 mm	A2197440340	88.94	84.50
3.5 mm	-	6 mm	28 mm	66 mm	A2197440350	88.94	84.50
#28 9/64"	0.1406"	6 mm	28 mm	66 mm	A2197440357	88.94	84.50
3.6 mm	-	6 mm	28 mm	66 mm	A2197440360	88.94	84.50
3.65 mm	-	6 mm	28 mm	66 mm	A2197440365	88.94	84.50
3.7 mm	-	6 mm	28 mm	66 mm	A2197440370	88.94	84.50
#25	-	6 mm	36 mm	74 mm	A2197440380	88.94	84.50
3.85 mm	-	6 mm	36 mm	74 mm	A2197440385	88.94	84.50
3.88 mm	-	6 mm	36 mm	74 mm	A2197440388	88.94	84.50
3.9 mm	-	6 mm	36 mm	74 mm	A2197440390	88.94	84.50
5/32"	0.1563"	6 mm	36 mm	74 mm	A2197440397	88.94	84.50
4 mm	-	6 mm	36 mm	74 mm	A2197440400	88.94	84.50
#21	-	6 mm	36 mm	74 mm	A2197440404	88.94	84.50
4.1 mm	-	6 mm	36 mm	74 mm	A2197440410	88.94	84.50
4.15 mm	-	6 mm	36 mm	74 mm	A2197440415	88.94	84.50
4.2 mm	-	6 mm	36 mm	74 mm	A2197440420	88.94	84.50
#18	-	6 mm	36 mm	74 mm	A2197440430	88.94	84.50
4.35 mm	-	6 mm	36 mm	74 mm	A2197440435	88.94	84.50
11/64"	0.1719"	6 mm	36 mm	74 mm	A2197440437	88.94	84.50
4.4 mm	-	6 mm	36 mm	74 mm	A2197440440	88.94	84.50
4.45 mm	-	6 mm	36 mm	74 mm	A2197440445	88.94	84.50
4.5 mm	-	6 mm	36 mm	74 mm	A2197440450	88.94	84.50
4.6 mm	-	6 mm	36 mm	74 mm	A2197440460	88.94	84.50
4.65 mm	-	6 mm	36 mm	74 mm	A2197440465	88.94	84.50
#13	-	6 mm	36 mm	74 mm	A2197440470	88.94	84.50
3/16"	0.1875"	6 mm	44 mm	82 mm	A2197440476	88.94	84.50
4.8 mm	-	6 mm	44 mm	82 mm	A2197440480	88.94	84.50
4.9 mm	-	6 mm	44 mm	82 mm	A2197440490	88.94	84.50
5 mm	-	6 mm	44 mm	82 mm	A2197440500	88.94	84.50
5.1 mm	-	6 mm	44 mm	82 mm	A2197440510	88.94	84.50
#7	-	6 mm	44 mm	82 mm	A2197440511	88.94	84.50
13/64"	0.2031"	6 mm	44 mm	82 mm	A2197440516	88.94	84.50
5.2 mm	-	6 mm	44 mm	82 mm	A2197440520	88.94	84.50
5.3 mm	-	6 mm	44 mm	82 mm	A2197440530	88.94	84.50
5.4 mm	-	6 mm	44 mm	82 mm	A2197440540	88.94	84.50
#3	-	6 mm	44 mm	82 mm	A2197440541	82.97	78.82
5.5 mm	-	6 mm	44 mm	82 mm	A2197440550	88.94	84.50
7/32"	0.2188"	6 mm	44 mm	82 mm	A2197440556	88.94	84.50
5.6 mm	-	6 mm	44 mm	82 mm	A2197440560	88.94	84.50
5.7 mm	-	6 mm	44 mm	82 mm	A2197440570	88.94	84.50
5.75 mm	-	6 mm	44 mm	82 mm	A2197440575	88.94	84.50
5.8 mm	-	6 mm	44 mm	82 mm	A2197440580	88.94	84.50
5.9 mm	-	6 mm	44 mm	82 mm	A2197440590	88.94	84.50
15/64"	0.2344"	6 mm	44 mm	82 mm	A2197440595	88.94	84.50
6 mm	-	6 mm	44 mm	82 mm	A2197440600	88.94	84.50
6.1 mm	-	8 mm	53 mm	91 mm	A2197440610	99.90	94.89
6.2 mm	-	8 mm	53 mm	91 mm	A2197440620	99.90	94.89

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Reg-ular Price	SALE
6.3 mm	-	8 mm	53 mm	91 mm	A2197440630	99.90	94.89
1/4"	0.25"	8 mm	53 mm	91 mm	A2197440635	99.90	94.89
6.4 mm	-	8 mm	53 mm	91 mm	A2197440640	99.90	94.89
6.5 mm	-	8 mm	53 mm	91 mm	A2197440650	99.90	94.89
F	-	8 mm	53 mm	91 mm	A2197440653	99.90	94.89
6.6 mm	-	8 mm	53 mm	91 mm	A2197440660	99.90	94.89
6.7 mm	-	8 mm	53 mm	91 mm	A2197440670	99.90	94.89
17/64"	0.2656"	8 mm	53 mm	91 mm	A2197440675	99.90	94.89
6.8 mm	-	8 mm	53 mm	91 mm	A2197440680	99.90	94.89
6.9 mm	-	8 mm	53 mm	91 mm	A2197440690	99.90	94.89
7 mm	-	8 mm	53 mm	91 mm	A2197440700	99.90	94.89
71 mm	-	8 mm	53 mm	91 mm	A2197440710	99.90	94.89
9/32" K	0.2813"	8 mm	53 mm	91 mm	A2197440715	99.90	94.89
7.2 mm	-	8 mm	53 mm	91 mm	A2197440720	99.90	94.89
7.25 mm	-	8 mm	53 mm	91 mm	A2197440725	99.90	94.89
7.3 mm	-	8 mm	53 mm	91 mm	A2197440730	99.90	94.89
7.4 mm	-	8 mm	53 mm	91 mm	A2197440740	99.90	94.89
7.45 mm	-	8 mm	53 mm	91 mm	A2197440745	93.19	88.51
7.5 mm	-	8 mm	53 mm	91 mm	A2197440750	99.90	94.89
19/64"	0.2969"	8 mm	53 mm	91 mm	A2197440754	99.90	94.89
7.6 mm	-	8 mm	53 mm	91 mm	A2197440760	99.90	94.89
7.7 mm	-	8 mm	53 mm	91 mm	A2197440770	99.90	94.89
7.8 mm	-	8 mm	53 mm	91 mm	A2197440780	99.90	94.89
7.9 mm	-	8 mm	53 mm	91 mm	A2197440790	99.90	94.89
5/16"	0.3125"	8 mm	53 mm	91 mm	A2197440794	99.90	94.89
8 mm	-	8 mm	53 mm	91 mm	A2197440800	99.90	94.89
8.1 mm	-	10 mm	61 mm	103 mm	A2197440810	120.73	114.70
8.2 mm	-	10 mm	61 mm	103 mm	A2197440820	120.73	114.70
8.3 mm	-	10 mm	61 mm	103 mm	A2197440830	120.73	114.70
21/64"	0.3281"	10 mm	61 mm	103 mm	A2197440833	120.73	114.70
8.4 mm	-	10 mm	61 mm	103 mm	A2197440840	120.73	114.70
8.45 mm	-	10 mm	61 mm	103 mm	A2197440845	120.73	114.70
8.5 mm	-	10 mm	61 mm	103 mm	A2197440850	120.73	114.70
8.6 mm	-	10 mm	61 mm	103 mm	A2197440860	120.73	114.70
8.7 mm	-	10 mm	61 mm	103 mm	A2197440870	120.73	114.70
11/32"	0.3438"	10 mm	61 mm	103 mm	A2197440873	112.62	107.00
8.8 mm	-	10 mm	61 mm	103 mm	A2197440880	120.73	114.70
8.9 mm	-	10 mm	61 mm	103 mm	A2197440890	120.73	114.70
9 mm	-	10 mm	61 mm	103 mm	A2197440900	120.73	114.70
9.05 mm	-	10 mm	61 mm	103 mm	A2197440905	120.73	114.70
9.1 mm	-	10 mm	61 mm	103 mm	A2197440910	120.73	114.70
23/64"	0.3594"	10 mm	61 mm	103 mm	A2197440913	120.73	114.70
9.2 mm	-	10 mm	61 mm	103 mm	A2197440920	120.73	114.70
9.3 mm	-	10 mm	61 mm	103 mm	A2197440930	120.73	114.70
9.35 mm	-	10 mm	61 mm	103 mm	A2197440935	120.73	114.70
9.4 mm	-	10 mm	61 mm	103 mm	A2197440940	120.73	114.70
9.45 mm	-	10 mm	61 mm	103 mm	A2197440945	120.73	114.70
9.5 mm	-	10 mm	61 mm	103 mm	A2197440950	120.73	114.70
3/8"	0.375"	10 mm	61 mm	103 mm	A2197440953	120.73	114.70
9.6 mm	-	10 mm	61 mm	103 mm	A2197440960	120.73	114.70
9.7 mm	-	10 mm	61 mm	103 mm	A2197440970	120.73	114.70
9.8 mm	-	10 mm	61 mm	103 mm	A2197440980	120.73	114.70
9.9 mm	-	10 mm	61 mm	103 mm	A2197440990	120.73	114.70
25/64"	0.3906"	10 mm	61 mm	103 mm	A2197440992	120.73	114.70
10 mm	-	10 mm	61 mm	103 mm	A2197441000	120.73	114.70
10.1 mm	-	12 mm	71 mm	118 mm	A2197441010	162.77	154.64
10.2 mm	-	12 mm	71 mm	118 mm	A2197441020	162.77	154.64
10.25 mm	-	12 mm	71 mm	118 mm	A2197441025	162.77	154.64
10.3 mm	-	12 mm	71 mm	118 mm	A2197441030	162.77	154.64
13/32"	0.4063"	12 mm	71 mm	118 mm	A2197441032	162.77	154.64
10.35 mm	-	12 mm	71 mm	118 mm	A2197441035	162.77	154.64
10.4 mm	-	12 mm	71 mm	118 mm	A2197441040	162.77	154.64
10.5 mm	-	12 mm	71 mm	118 mm	A2197441050	162.77	154.64
10.55 mm	-	12 mm	71 mm	118 mm	A2197441055	162.77	154.64
10.6 mm	-	12 mm	71 mm	118 mm	A2197441060	162.77	154.64
10.7 mm	-	12 mm	71 mm	118 mm	A2197441070	162.77	154.64
27/64"	0.4219"	12 mm	71 mm	118 mm	A2197441072	162.77	154.64
10.8 mm	-	12 mm	71 mm	118 mm	A2197441080	162.77	154.64
10.9 mm	-	12 mm	71 mm	118 mm	A2197441090	162.77	154.64
11 mm	-	12 mm	71 mm	118 mm	A2197441100	162.77	154.64
11.1 mm	-	12 mm	71 mm	118 mm	A2197441110	162.77	154.64
7/16"	0.4375"	12 mm	71 mm	118 mm	A2197441111	162.77	154.64
11.2 mm	-	12 mm	71 mm	118 mm	A2197441120	162.77	154.64

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
11.25 mm	-	12 mm	71 mm	118 mm	A2197441125	162.77	154.64
11.3 mm	-	12 mm	71 mm	118 mm	A2197441130	162.77	154.64
11.35 mm	-	12 mm	71 mm	118 mm	A2197441135	162.77	154.64
11.4 mm	-	12 mm	71 mm	118 mm	A2197441140	162.77	154.64
11.45 mm	-	12 mm	71 mm	118 mm	A2197441145	162.77	154.64
11.5 mm	-	12 mm	71 mm	118 mm	A2197441150	162.77	154.64
29/64"	0.4531"	12 mm	71 mm	118 mm	A2197441151	162.77	154.64
11.6 mm	-	12 mm	71 mm	118 mm	A2197441160	162.77	154.64
11.7 mm	-	12 mm	71 mm	118 mm	A2197441170	162.77	154.64
11.8 mm	-	12 mm	71 mm	118 mm	A2197441180	162.77	154.64
11.9 mm	-	12 mm	71 mm	118 mm	A2197441190	162.77	154.64
15/32"	0.4688"	12 mm	71 mm	118 mm	A2197441191	162.77	154.64
12 mm	-	12 mm	71 mm	118 mm	A2197441200	236.95	225.12
12.15 mm	-	14 mm	77 mm	124 mm	A2197441215	236.95	225.12
12.2 mm	-	14 mm	71 mm	118 mm	A2197441220	236.95	225.12
12.3 mm	-	14 mm	77 mm	124 mm	A2197441230	236.95	225.12
12.5 mm	-	14 mm	77 mm	124 mm	A2197441250	236.95	225.12
12.55 mm	-	14 mm	77 mm	124 mm	A2197441255	236.95	225.12
12.6 mm	-	14 mm	77 mm	124 mm	A2197441260	236.95	225.12
1/2"	0.5"	14 mm	77 mm	124 mm	A2197441270	236.95	225.12
12.8 mm	-	14 mm	77 mm	124 mm	A2197441280	236.95	225.12
13 mm	-	14 mm	77 mm	124 mm	A2197441300	236.95	225.12
13.1 mm	-	14 mm	77 mm	124 mm	A2197441310	236.95	225.12
13.3 mm	-	14 mm	77 mm	124 mm	A2197441330	236.95	225.12
13.35 mm	-	14 mm	77 mm	124 mm	A2197441335	236.95	225.12
13.45 mm	-	14 mm	77 mm	124 mm	A2197441345	236.95	225.12
17/32"	0.5313"	14 mm	77 mm	124 mm	A2197441349	236.95	225.12
13.5 mm	-	14 mm	77 mm	124 mm	A2197441350	236.95	225.12
13.6 mm	-	14 mm	77 mm	124 mm	A2197441360	236.95	225.12
13.65 mm	-	14 mm	77 mm	124 mm	A2197441365	236.95	225.12
13.7 mm	-	14 mm	77 mm	124 mm	A2197441370	236.95	225.12
13.8 mm	-	14 mm	77 mm	124 mm	A2197441380	236.95	225.12
35/64"	0.5469"	14 mm	77 mm	124 mm	A2197441389	236.95	225.12
14 mm	-	14 mm	77 mm	124 mm	A2197441400	236.95	225.12
14.1 mm	-	16 mm	77 mm	124 mm	A2197441410	289.24	274.80
9/16"	0.5625"	16 mm	83 mm	133 mm	A2197441429	289.24	274.80
14.5 mm	-	16 mm	83 mm	133 mm	A2197441450	289.24	274.80
14.6 mm	-	16 mm	83 mm	133 mm	A2197441460	289.24	274.80
37/64"	0.5781"	16 mm	83 mm	133 mm	A2197441468	289.24	274.80
14.8 mm	-	16 mm	83 mm	133 mm	A2197441480	289.24	274.80
15 mm	-	16 mm	83 mm	133 mm	A2197441500	289.24	274.80
19/32"	0.5938"	16 mm	83 mm	133 mm	A2197441508	289.24	274.80
15.1 mm	-	16 mm	83 mm	133 mm	A2197441510	289.24	274.80
15.35 mm	-	16 mm	83 mm	133 mm	A2197441535	289.24	274.80
15.5 mm	-	16 mm	83 mm	133 mm	A2197441550	289.24	274.80
15.6 mm	-	16 mm	83 mm	133 mm	A2197441560	289.24	274.80
5/8"	0.625"	16 mm	83 mm	133 mm	A2197441588	289.24	274.80
16 mm	-	16 mm	83 mm	133 mm	A2197441600	397.82	377.94
41/64"	0.6406"	18 mm	93 mm	143 mm	A2197441627	397.82	377.94
16.5 mm	-	18 mm	93 mm	143 mm	A2197441650	397.82	377.94
21/32"	0.6563"	18 mm	93 mm	143 mm	A2197441667	397.82	377.94
17 mm	-	18 mm	93 mm	143 mm	A2197441700	397.82	377.94
11/16"	0.6875"	18 mm	93 mm	143 mm	A2197441746	397.82	377.94
17.5 mm	-	18 mm	93 mm	143 mm	A2197441750	397.82	377.94
18 mm	-	18 mm	93 mm	143 mm	A2197441800	397.82	377.94
3/4"	0.75"	20 mm	101 mm	153 mm	A2197441905	397.82	377.94

30926



MARXBORE Mechanics Drills

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



Tool Diameter	Decimal Equivalent	Flute Length	Overall Length (OAL)	Shank Standard	Order No.	Regular Price	SALE
1/16"	0.0625"	1"	2"	1/16"		2.04	1.63
5/64"	0.0781"	1-1/8"	2-1/8"	5/64"		2.12	1.74
3/32"	0.0938"	1-1/4"	2-1/4"	3/64"		2.15	1.74
7/64"	0.1094"	1-3/8"	2-3/8"	7/64"		2.30	1.84
1/8"	0.1250"	1-1/2"	2-1/2"	1/8"		2.35	1.85
9/64"	0.1406"	1-5/8"	2-5/8"	9/64"		2.52	2.06
5/32"	0.1562"	1-3/4"	2-3/4"	5/32"		2.71	2.18
11/64"	0.1719"	1-7/8"	2-7/8"	11/64"		2.99	2.39
3/16"	0.1875"	2"	3"	3/16"		3.18	2.50
13/64"	0.2031"	2-1/8"	3-1/8"	13/64"		3.48	2.83
7/32"	0.2188"	2-1/4"	3-1/4"	7/32"		3.59	2.83
15/64"	0.2344"	2-3/8"	3-3/8"	15/64"		3.91	3.15
1/4"	0.2500"	2"	3-1/2"	1/4"		4.32	3.48
17/64"	0.2656"	2-1/8"	3-5/8"	17/64"		4.78	3.80
9/32"	0.2812"	2-1/4"	3-3/4"	9/32"		5.22	4.13
19/64"	0.2969"	2-3/8"	3-7/8"	19/64"		5.95	4.79
5/16"	0.3125"	2-1/2"	4"	5/16"		6.11	4.89
21/64"	0.3281"	2-9/16"	4-1/16"	21/64"		6.65	5.32
11/32"	0.3438"	2-5/8"	4-1/8"	11/32"		6.98	5.54
23/64"	0.3594"	2-11/16"	4-3/16"	23/64"		7.61	6.09
3/8"	0.3750"	2-5/8"	4-1/4"	3/8"		8.17	6.52
25/64"	0.3906"	2-11/16"	4-5/16"	3/8"		9.10	7.28
13/32"	0.4062"	2-3/4"	4-3/8"	3/8"		9.73	7.83
27/64"	0.4219"	2-13/16"	4-7/16"	3/8"		11.52	9.24
7/16"	0.4375"	2-7/8"	4-1/2"	3/8"		12.64	10.11
29/64"	0.4531"	3"	4-5/8"	3/8"		13.85	11.09
15/32"	0.4688"	3-1/8"	4-3/4"	3/8"		14.87	11.85
31/64"	0.4844"	3-1/4"	4-7/8"	3/8"		15.51	12.39
1/2"	0.5000"	3"	5"	3/8"	82143	16.08	12.83

29156



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		118.41	100.65
82 Degrees		118.41	100.65
90 Degrees		118.41	100.65
100 Degrees		118.41	100.65
120 Degrees	64021	118.41	100.65

Quantity - 7			
Point Angle (SIG)	Order No.	Regular Price	SALE
60 Degrees		168.22	142.98
82 Degrees		168.22	142.98
90 Degrees		168.22	142.98
100 Degrees		168.22	142.98
120 Degrees	64023	168.22	142.98

9955



6 Flute Chatterless Countersink Sets High Speed Steel • In Plastic Case

- 7 Piece sets include: 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 1" diameter tools
- 4 Piece sets include: 1/4, 1/2, 3/4 and 1" diameter tools
- M A Ford Series #79



	60 Degrees				90 Degrees				82 Degrees				100 Degrees				90 Degrees, TiN				60 Degrees, TiN				82 Degrees, TiN			
Quantity	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE				
4	79003	124.75	106.04	79013	124.75	106.04	79008	124.75	106.04	79019	124.75	106.04	79384	171.61	145.91	79380	171.61	145.91	79382	171.61	145.91	79382	171.61	145.91				
7	79001	181.54	154.31	79011	181.54	154.31	79006	181.54	154.31	79016	181.54	154.31																

9905

CUTTING TOOLS

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

• Style #HG-4C-TC



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	3/8"	2-5/16"	3/8"	4	C33240	54.90	38.43
5/32"	3/8"	2-3/8"	1/2"	4	C33242	55.52	38.84
3/16"	3/8"	2-3/8"	1/2"	4	C33244	50.03	35.00
3/16"	3/8"	3-1/16"	1-1/4"	4	C33406	54.80	38.36
3/16"	3/8"	3-9/16"	1-3/4"	4	C33457	60.74	42.55
7/32"	3/8"	2-7/16"	5/8"	4	C33246	50.71	35.49
1/4"	3/8"	2-7/16"	5/8"	4	C33248	50.71	35.49
1/4"	3/8"	3-1/16"	1-1/4"	4	C33408	64.96	45.43
17/64"	3/8"	2-1/2"	3/4"	4	C33249	54.98	38.46
5/16"	3/8"	2-1/2"	3/4"	4	C33252	51.52	36.09
5/16"	3/8"	3-1/8"	1-3/8"	4	C33410	69.67	48.79
11/32"	3/8"	3-1/4"	1-1/2"	4	C33411	63.78	44.65
3/8"	3/8"	4-1/4"	2-1/2"	4	C33463	84.91	59.45
13/32"	3/8"	2-11/16"	1"	4	C33258	72.09	50.47
7/16"	3/8"	2-11/16"	1"	4	C33260	78.08	54.67
7/16"	1/2"	3-3/4"	1-3/4"	4	C33414	81.07	56.70
15/32"	1/2"	3-1/4"	1-1/4"	4	C33262	79.74	55.86
1/2"	3/8"	2-11/16"	1"	4	C33264	72.16	50.46
1/2"	1/2"	3-1/4"	1-1/4"	4	C33265	70.10	49.03
1/2"	1/2"	4"	2"	4	C33416	91.57	64.14
17/32"	1/2"	3-3/8"	1-3/8"	4	C33266	128.01	89.60
9/16"	1/2"	3-3/8"	1-3/8"	4	C33267	140.32	98.18
5/8"	1/2"	3-3/8"	1-3/8"	4	C33269	126.64	88.65
5/8"	5/8"	3-3/4"	1-5/8"	4	C33270	124.28	87.02
21/32"	5/8"	3-3/4"	1-5/8"	4	C33271	144.61	101.18
11/16"	5/8"	3-3/4"	1-5/8"	4	C33273	144.61	101.18
3/4"	1/2"	3-5/8"	1-5/8"	4	C33275	152.58	106.81
3/4"	3/4"	3-7/8"	1-5/8"	4	C33277	148.10	103.69
3/4"	3/4"	5-1/4"	3"	4	C33418	191.51	134.02
3/4"	3/4"	6-1/4"	4"	4	C33469	236.67	165.67
7/8"	7/8"	4-1/8"	1-7/8"	4	C33283	190.01	133.06
1"	3/4"	4-1/8"	1-7/8"	4	C33288	222.17	155.47
1"	1"	4-1/2"	2"	4	C33290	222.17	155.47

29532

Solid Carbide, High Performance, 5-Flute, Variable Index, Center Cutting, Square, Single End, AP/Max Coated, End Mills for Ferrous Materials

• Style #CEM-V2-5R-TA



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
3/16"	3/16"	2"	3/8"	5	C80525	39.02	27.29
3/16"	3/16"	2"	7/16"	5	C80527	54.99	38.51
3/16"	3/16"	2-1/2"	3/4"	5	C80529	57.65	40.38
1/4"	1/4"	2"	1/2"	5	C80531	53.49	37.41
1/4"	1/4"	2-1/2"	3/4"	5	C80533	72.69	50.84
1/4"	1/4"	3"	1-1/4"	5	C80537	90.70	63.48
5/16"	5/16"	2"	1/2"	5	C80538	81.16	56.78
5/16"	5/16"	2-1/2"	13/16"	5	C80540	81.64	57.11
5/16"	5/16"	3"	1-1/4"	5	C80542	92.16	64.48
3/8"	3/8"	2"	5/8"	5	C80545	89.46	62.60
3/8"	3/8"	2-1/2"	7/8"	5	C80547	94.12	65.92
3/8"	3/8"	3"	1-1/8"	5	C80549	127.37	89.13
3/8"	3/8"	4"	2"	5	C80551	130.64	91.44
7/16"	7/16"	2-1/2"	5/8"	5	C80553	120.62	84.40
7/16"	7/16"	3"	1"	5	C80555	135.84	95.06
7/16"	7/16"	4"	2"	5	C80557	159.05	111.34
1/2"	1/2"	2-1/2"	5/8"	5	C80558	122.01	85.38
1/2"	1/2"	3"	1"	5	C80560	133.08	93.19
1/2"	1/2"	3"	1-1/4"	5	C80565	151.30	105.96
1/2"	1/2"	4"	2"	5	C80571	192.43	134.68
5/8"	5/8"	3"	3/4"	5	C80576	228.68	160.10
5/8"	5/8"	3-1/2"	1-1/4"	5	C80578	243.60	170.54
5/8"	5/8"	5"	2-1/4"	5	C80583	354.68	248.33
3/4"	3/4"	3"	1"	5	C80588	291.52	204.09
3/4"	3/4"	4"	1-1/2"	5	C80590	353.83	247.67
3/4"	3/4"	5"	2-1/4"	5	C80595	454.06	317.87
1"	1"	4"	1-1/2"	5	C80600	571.17	399.84
1"	1"	5"	2-1/4"	5	C80605	687.97	481.60
1"	1"	6"	3"	5	C80610	904.71	633.32

29538

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

• Style #HGC-4C



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/4"	3/8"	3-9/16"	1-3/4"	4	C32691	60.46	42.32
9/32"	3/8"	3-1/8"	1-3/8"	4	C32647	50.18	35.13
5/16"	3/8"	3-1/8"	1-3/8"	4	C32648	53.92	37.76
5/16"	3/8"	3-3/4"	2"	4	C32693	63.52	44.45
3/8"	3/8"	3-1/4"	1-1/2"	4	C42857	51.06	35.72
3/8"	3/8"	4-1/4"	2-1/2"	4	C42913	66.10	46.29
7/16"	3/8"	3-3/4"	1-3/4"	4	C32651	66.12	46.27
1/2"	1/2"	4"	2"	4	C42861	71.16	49.81
5/8"	5/8"	3-3/4"	1-5/8"	4	C42703	109.26	76.48
5/8"	5/8"	4-5/8"	2-1/2"	4	C42864	164.74	115.33
3/4"	3/4"	3-7/8"	1-5/8"	4	C42707	138.95	97.21
3/4"	3/4"	6-1/4"	4"	4	C42924	224.44	157.15
7/8"	7/8"	5-3/4"	3-1/2"	4	C32653	175.60	122.88
1"	1"	4-1/2"	2"	4	C42715	188.02	131.62
1"	1"	6-1/2"	4"	4	C42876	306.73	214.70
1-1/2"	1-1/4"	10-1/2"	8"	6	C32699	933.44	653.44

29540

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

• Style #HGC-2-TN



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
3/8"	3/8"	2-3/4"	1"	2	C75138	47.37	33.16
3/8"	3/8"	3-1/4"	1-1/2"	2	C75139	47.59	33.31
1/2"	1/2"	2-11/16"	3/16"	2	C75140	41.40	29.00
1/2"	1/2"	3-1/2"	1-1/2"	2	C75141	58.93	41.22
5/8"	5/8"	3-3/8"	1-1/8"	2	C75144	79.76	55.83
3/4"	3/4"	3-5/8"	1-5/16"	2	C75145	102.72	71.91
7/8"	7/8"	4"	1-1/2"	2	C75167	151.00	105.71
7/8"	7/8"	4-1/8"	1-1/2"	2	C75168	153.60	107.55
1"	1"	4-1/8"	1-1/2"	2	C75170	173.23	121.26

29863

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

• Style #HGC-4C-TC



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/4"	3/8"	3-1/16"	1-1/4"	4	C32673	60.93	42.67
1/4"	3/8"	3-9/16"	1-3/4"	4	C32718	69.16	48.42
9/32"	3/8"	3-1/8"	1-3/8"	4	C32674	57.48	40.19
5/16"	3/8"	3-1/8"	1-3/8"	4	C32675	64.33	45.07
5/16"	3/8"	3-3/4"	2"	4	C32720	77.07	53.95
3/8"	3/8"	3-1/4"	1-1/2"	4	C32677	60.18	42.08
3/8"	3/8"	4-1/4"	2-1/2"	4	C32722	77.59	54.35
7/16"	3/8"	3-3/4"	1-3/4"	4	C32679	77.14	53.95
1/2"	1/2"	3-1/4"	1-1/4"	6	C32634	71.59	50.11
1/2"	1/2"	3-1/4"	1-1/4"	4	C32633	64.70	45.32
5/8"	5/8"	3-3/4"	1-5/8"	4	C32635	127.80	89.42
5/8"	5/8"	4-5/8"	2-1/2"	4	C32682	173.65	121.55
3/4"	3/4"	3-7/8"	1-5/8"	4	C32637	163.42	114.37
3/4"	3/4"	6-1/4"	4"	4	C32728	263.37	184.37
7/8"	7/8"	5-3/4"	3-1/2"	4	C32685	208.75	146.13
1/2"	1/2"	4"	2"	4	C32681	84.57	59.23
1"	1"	4-1/2"	2"	4	C32639	219.79	153.86
1"	1"	6-1/2"	4"	4	C32687	343.96	240.77

29531

**Solid Carbide High Performance, 4-Flute, Variable Index, Center Cutting, Square, Single End, AP/Max Coated, End Mills for Ferrous Materials**

• Style #CEM-V-4R-TA



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	1-1/2"	1/4"	4	C80001	44.39	31.04
1/8"	1/8"	1-1/2"	3/8"	4	C80003	43.65	30.59
1/8"	1/8"	1-1/2"	1/2"	4	C80005	45.77	32.02
3/16"	3/16"	2"	3/8"	4	C80007	46.16	32.35
3/16"	3/16"	2"	7/16"	4	C80009	49.96	34.99
3/16"	3/16"	2-1/2"	3/4"	4	C80011	61.36	42.92
1/4"	1/4"	2"	1/2"	4	C80013	56.43	39.50
1/4"	1/4"	2-1/2"	3/4"	4	C80015	69.15	48.41
1/4"	1/4"	3"	1-1/8"	4	C80018	75.92	53.14
1/4"	1/4"	3"	1-1/4"	4	C80020	83.10	58.20
5/16"	5/16"	2"	1/2"	4	C80021	85.34	59.75
5/16"	5/16"	2-1/2"	13/16"	4	C80023	91.99	64.36
5/16"	5/16"	3"	1-1/4"	4	C80025	102.36	71.63
3/8"	3/8"	2"	5/8"	4	C80027	93.86	65.69
3/8"	3/8"	2-1/2"	7/8"	4	C80029	101.10	70.74
3/8"	3/8"	3"	1-1/8"	4	C80031	126.10	88.25
3/8"	3/8"	4"	2"	4	C80033	148.81	104.19
7/16"	7/16"	2-1/2"	5/8"	4	C80035	129.56	90.66
7/16"	7/16"	3"	1"	4	C80037	141.32	98.92
7/16"	7/16"	4"	2"	4	C80039	155.73	109.04
1/2"	1/2"	2-1/2"	5/8"	4	C80040	149.18	104.42
1/2"	1/2"	3"	1"	4	C80043	157.69	110.36
1/2"	1/2"	3"	1-1/4"	4	C80048	145.77	101.99
1/2"	1/2"	4"	2"	4	C80054	197.20	138.08
5/8"	5/8"	3"	3/4"	4	C80059	230.28	161.18
5/8"	5/8"	3-1/2"	1-1/4"	4	C80061	257.51	180.22
5/8"	5/8"	5"	2-1/4"	4	C80066	350.24	245.13
3/4"	3/4"	3"	1"	4	C80072	345.68	241.95
3/4"	3/4"	4"	1-1/2"	4	C80074	364.90	255.38
3/4"	3/4"	5"	2-1/4"	4	C80079	509.93	356.93
1"	1"	4"	1-1/2"	4	C80084	617.71	432.41
1"	1"	5"	2-1/4"	4	C80089	755.32	528.68
1"	1"	6"	3"	4	C80094	781.60	547.17

29536

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

• Style #HGC-2



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
3/8"	3/8"	2-3/4"	1"	2	C75128	42.29	29.60
3/8"	3/8"	3-1/4"	1-1/2"	2	C75129	42.49	29.72
1/2"	1/2"	2-11/16"	3/16"	2	C75130	36.95	25.91
1/2"	1/2"	4"	2"	2	C75132	51.52	36.09
5/8"	5/8"	3-3/8"	1-1/8"	2	C75134	71.21	49.87
7/8"	7/8"	4"	1-1/2"	2	C75158	134.82	94.42
1"	1"	4"	1-1/2"	2	C75160	137.53	96.23
1"	1"	4-1/8"	1-1/2"	2	C75161	154.68	108.25

29862

**Solid Carbide High Performance Ball Nose End Mills****4-Flute • Variable Index • Center Cutting • AP/Max Coated • for Ferrous Materials • Single End**

• Style #CEM-V-4B-TA



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	1-1/2"	3/8"	4	C80108	53.21	37.24
3/16"	3/16"	2"	7/16"	4	C80109	68.92	48.25
1/4"	1/4"	2-1/2"	3/4"	4	C80110	83.71	58.65
5/16"	5/16"	2-1/2"	13/16"	4	C80111	97.66	68.33
3/8"	3/8"	2-1/2"	7/8"	4	C80112	120.02	84.06
7/16"	7/16"	3"	1"	4	C80113	153.45	107.38
1/2"	1/2"	2-1/2"	5/8"	4	C80114	155.12	108.59
1/2"	1/2"	3"	1"	4	C80115	163.05	114.10
5/8"	5/8"	3-1/2"	1-1/4"	4	C80116	262.70	183.86
3/4"	3/4"	4"	1-1/2"	4	C80117	383.05	268.14
1"	1"	5"	2-1/4"	4	C80118	719.23	503.49

29537

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

• Style #CEM-AM3-ZN



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	1-1/2"	3/8"	3	C72341	36.71	25.75
3/16"	3/16"	2"	5/16"	3	C72342	43.90	30.70
3/16"	3/16"	2"	9/16"	3	C72343	48.14	33.68
1/4"	1/4"	2-1/2"	3/4"	3	C72345	61.70	43.24
5/16"	5/16"	3-1/2"	1-1/4"	3	C72349	98.73	69.10
3/8"	3/8"	2"	1/2"	3	C72351	68.62	48.08
3/8"	3/8"	2-1/2"	1"	3	C72352	86.58	60.62
3/8"	3/8"	3-1/2"	1-1/2"	3	C72353	113.16	79.23
1/2"	1/2"	2-1/2"	5/8"	3	C72358	124.42	87.14
1/2"	1/2"	3"	1-1/4"	3	C72359	153.20	107.28
1/2"	1/2"	4"	2"	3	C72360	169.03	118.29
5/8"	5/8"	5"	2-1/2"	3	C72364	345.38	241.73
3/4"	3/4"	3"	1"	3	C72366	316.57	221.59
3/4"	3/4"	4"	5/8"	3	C72367	372.72	260.88

29864

CUTTING TOOLS

IMCO® enDURO® M525 Solid Carbide 5 Flute Variable Index End Mills (cont.)

Square End and Corner Radius Styles

- Advanced cutting edge design for higher metal removal rates in hard to machine materials
- Unique vibration dampening geometry for maximum tool stability and longer tool life
- Specifically designed to run wet or dry on today's high speed, high -efficiency machines
- Round shank
- 40° Helix, AlCrN-X coated



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	0.015"			0.03"			0.06"		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	1/4"	3/8"	2"	65025	38.10	30.48	65026	50.63	40.50	65027	50.63	40.50
1/4"	1/4"	3/4"	2-1/2"	65049	50.79	40.63	65050	63.33	50.66	65051	63.33	50.66
1/4"	1/4"	1-1/8"	3"	65055	62.06	49.65	65056	74.59	59.67	65057	74.59	59.67
5/16"	5/16"	1"	2"	65061	61.15	48.92	65062	72.22	57.78	65063	72.22	57.78
5/16"	5/16"	1"	2-1/2"	65067	64.49	51.59	65068	75.54	60.43	65069	75.54	60.43
5/16"	5/16"	1"	3"	65073	85.17	68.14	65074	112.21	89.77	65075	112.21	89.77
5/16"	5/16"	1-1/4"	4"	65079	140.37	112.30	65080	152.21	121.77	65081	152.21	121.77
3/8"	3/8"	1/2"	2"	65085	70.78	56.62	65086	82.60	66.08	65087	82.60	66.08
3/8"	3/8"	1"	2-1/2"	65133	80.54	64.43	65134	92.36	73.89	65135	92.36	73.89
3/8"	3/8"	1-1/4"	3"	65141	107.54	86.03	65142	119.36	95.49	65143	119.36	95.49
3/8"	3/8"	2"	4"	65173	133.38	106.70	65174	145.16	116.13	65175	145.16	116.13
7/16"	7/16"	1-1/4"	2-3/4"	65197	114.36	91.49	65198	125.28	100.22	65199	125.28	100.22
1/2"	1/2"	50 mm	2-1/2"	65213	121.67	97.34	65214	133.46	106.77	65215	133.46	106.77
1/2"	1/2"	1-1/4"	3"	65258	130.94	104.75	65259	142.75	114.20	65260	142.75	114.20
1/2"	1/2"	5/16"	3"	65267	135.89	108.71	65268	147.70	118.16	65269	147.70	118.16
1/2"	1/2"	2-1/8"	4"	65294	173.60	138.88	65295	184.97	147.98	65296	184.97	147.98
1/2"	1/2"	2-5/8"	5"	65303	232.29	185.83	65304	243.67	194.94	65305	243.67	194.94
1/2"	1/2"	19 mm	6"	65312	261.31	209.05	65313	273.11	218.49	65314	273.11	218.49
5/8"	5/8"	1-1/4"	3"	65321	206.34	165.07	65322	235.41	188.33	65323	235.41	188.33
5/8"	5/8"	1-5/8"	3-1/2"	65361	209.53	167.62	65362	235.37	188.30	65363	235.37	188.30
5/8"	5/8"	1-1/4"	4"	65371	281.95	225.56	65372	292.42	233.94	65373	292.42	233.94
5/8"	5/8"	16 mm	5"	65391	334.55	267.64	65392	344.88	275.90	65393	344.88	275.90
5/8"	5/8"	3-1/4"	6"	65401	387.42	309.94	65402	406.67	325.34	65403	406.67	325.34
3/4"	3/4"	1-1/4"	3"	65421	365.09	292.07	65422	378.91	303.13	65423	378.91	303.13
3/4"	3/4"	1-5/8"	4"	65461	367.39	293.91	65462	380.40	304.32	65463	380.40	304.32
3/4"	3/4"	2-3/8"	5"	65471	451.58	361.26	65472	463.41	370.73	65473	463.41	370.73
3/4"	3/4"	25 mm	6"	65491	542.63	434.10	65492	551.75	441.40	65493	551.75	441.40
3/4"	3/4"	4-1/8"	7"	65501	635.43	508.34	65502	642.56	514.05	65503	642.56	514.05
1"	1"	1-1/4"	4"	65555	634.44	507.55	65556	646.28	517.02	65557	646.28	517.02
1"	1"	1-1/4"	5"	65566	686.64	549.31	65567	681.28	545.02	65568	681.28	545.02
1"	1"	1-1/4"	6"	65588	781.91	625.53	65589	772.69	618.15	65590	772.69	618.15

9813

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

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



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"			Corner Radius (RE) - 0.125"		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16"	3/16"	3/8"	2"	63478	61.44	49.19	-	-	-	-	-	-
3/16"	3/16"	9/16"	2"	63481	63.21	50.54	-	-	-	-	-	-
3/16"	3/16"	3/4"	2-1/2"	63484	80.45	64.36	-	-	-	-	-	-
1/4"	1/4"	1/2"	2"	63487	71.14	56.88	63488	75.63	60.52	-	-	-
1/4"	1/4"	3/4"	2-1/2"	63491	76.44	61.15	63492	80.92	64.69	-	-	-
1/4"	1/4"	1"	3"	63495	95.21	76.13	63496	99.69	79.76	-	-	-
3/8"	3/8"	3/4"	2-1/2"	63499	102.13	81.74	63500	106.56	85.28	-	-	-
3/8"	3/8"	15/16"	2-1/2"	63504	103.55	82.89	63505	108.04	86.43	-	-	-
3/8"	3/8"	1-1/8"	3"	63509	115.45	92.35	63510	119.95	95.99	-	-	-
3/8"	3/8"	1-1/2"	3-1/2"	63514	145.26	116.17	63515	149.74	119.81	-	-	-
1/2"	1/2"	1"	3"	63517	152.45	121.97	63518	156.95	125.53	63520	166.59	133.23
1/2"	1/2"	1-1/4"	3-1/4"	63215	169.16	135.31	63216	173.87	139.05	63218	184.01	147.16
1/2"	1/2"	1-1/2"	3-1/2"	63527	170.79	136.66	63528	175.26	140.19	63530	184.91	147.89
1/2"	1/2"	1-3/4"	4"	63220	191.24	152.98	-	-	-	63238	205.39	164.32
1/2"	1/2"	2"	4"	63537	200.50	160.36	63538	204.99	164.00	63540	214.62	171.69
1/2"	1/2"	2-1/4"	4"	63542	221.28	177.01	63543	225.76	180.64	63545	235.39	188.32
5/8"	5/8"	1-1/4"	3-1/2"	63547	283.62	226.93	63548	288.74	230.99	63550	299.79	239.82
5/8"	5/8"	1-9/16"	4"	63242	312.48	250.02	63244	317.70	254.18	63247	328.65	262.90
5/8"	5/8"	1-7/8"	4"	63559	316.61	253.24	63560	321.65	257.29	63562	332.73	266.14
5/8"	5/8"	2-3/16"	4-1/2"	63258	363.77	290.99	63262	368.65	294.94	63264	379.87	303.89
5/8"	5/8"	2-1/2"	5"	63569	411.66	329.37	63570	416.47	333.21	63571	426.99	341.64
3/4"	3/4"	1-1/2"	4"	63573	392.86	314.29	63574	397.90	318.33	63575	408.81	327.07
3/4"	3/4"	1-7/8"	4-1/2"	63270	452.77	362.23	63271	458.43	366.75	63275	470.63	376.48
3/4"	3/4"	2-1/4"	5"	63586	483.67	386.97	63587	488.86	391.13	63589	500.13	400.09
3/4"	3/4"	2-5/8"	5"	63593	503.30	402.68	63594	508.40	406.72	63596	519.60	415.68
3/4"	3/4"	3"	6"	63598	583.92	467.16	63599	588.94	471.12	63600	599.81	479.86

9795

HSS M Co Titanium Nitride (TiN) Coated Spiral Point Plug Taps

List 2047G - Fractional



Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Thread Tolerance Class (TCTR)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/4"	20	H3	2	1"	2-1/2"	92500	15.74	12.58
1/4"	28	H3	2	1"	2-1/2"	92501	15.29	12.24
5/16"	18	H3	2	1-1/8"	2-23/32"	92502	19.78	15.80
5/16"	24	H3	2	1-1/8"	2-23/32"	92503	19.78	15.80
3/8"	16	H3	3	1-1/4"	2-15/16"	92504	21.35	17.06
3/8"	24	H3	3	1-1/4"	2-15/16"	92505	21.35	17.06
7/16"	14	H3	3	1-7/16"	3-5/32"	92506	32.02	25.62
7/16"	20	H3	3	1-7/16"	3-5/32"	92507	32.02	25.62
1/2"	13	H3	3	1-21/32"	3-3/8"	92508	30.77	24.63
1/2"	20	H3	3	1-21/32"	3-3/8"	92509	30.77	24.63
5/8"	11	H3	3	1-13/16"	3-13/16"	92510	65.45	52.41
5/8"	18	H3	3	1-13/16"	3-13/16"	92511	65.45	52.41
3/4"	10	H3	3	2"	4-1/4"	92512	86.99	69.55
3/4"	16	H3	3	2"	4-1/4"	92513	86.99	69.55

29212

HSS M Co Taper Pipe Taps

High Speed Steel

- NPT/ANPT, NPTF
- Regular thread
- Morse List #2119



					Morse Cutting Tools, NPT, Bright			Morse Cutting Tools, NPTF, Bright		
Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Overall Length (OAL)	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
1/16"	27	4	11/16"	2-1/8"	36121	31.57	25.23	36141	31.57	25.23
1/8"	27	4	3/4"	2-1/8"	36122	30.75	24.59	36142	30.75	24.59
1/8"	27	4	3/4"	2-1/8"	36123	30.75	24.59	36143	30.75	24.59
1/4"	18	4	1-1/16"	2-7/16"	36124	31.59	25.29	36144	33.60	26.90
3/8"	18	4	1-1/16"	2-9/16"	36125	45.07	36.05	36145	45.07	36.05
1/2"	14	4	1-3/8"	3-1/8"	36126	68.99	55.14	36146	70.20	56.11
3/4"	14	5	1-3/8"	3-1/4"	36127	95.38	76.32	36147	101.50	81.21
1"	11.5	5	1-3/4"	3-3/4"	36128	153.01	122.44	36148	153.01	122.44
1-1/4"	11	5	1-3/4"	4"	36129	216.66	173.35	36149	216.66	173.35
1-1/2"	11.5	7	1-3/4"	4-1/4"	36130	290.79	232.61	36150	290.79	232.61
2"	11.5	7	1-3/4"	4-1/2"	36131	399.27	319.44	36151	399.27	319.44

†Small shank .3125 diameter

10007

HSS M Co Taper Pipe Taps

Interrupted Thread

- Chamfer - 2 - 3-1/2 threads
- Interrupted thread taper pipe taps reduce friction, increase chip capacity, and enhance coolant flow to the cutting teeth for reduced chance of torn threads and improve thread quality
- Recommended for a wide variety of materials, especially soft ductile materials and materials producing long continuous chips
- Morse List #2113



					NPT			NPTF		
Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Overall Length (OAL)	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
1/8"	27	5	3/4"	2-1/8"	36002	48.93	39.14	36022	48.93	39.14
1/8"	27	5	3/4"	2-1/8"	36001	48.93	39.14	36021	48.93	39.14
1/4"	18	5	1-1/16"	2-7/16"	36003	55.31	44.27	36023	55.31	44.27
3/8"	18	5	1-1/16"	2-9/16"	36004	69.52	55.64	36024	69.52	55.64
1/2"	14	5	1-3/8"	3-1/8"	36005	108.55	86.87	36025	108.55	86.87
3/4"	14	5	1-3/8"	3-1/4"	36006	155.74	124.57	36026	155.74	124.57
1"	11.5	5	1-3/4"	3-3/4"	36007	247.38	197.91	36027	247.38	197.91
1-1/4"	11	5	1-3/4"	4"	36008	340.96	272.81	-	-	-
1-1/2"	11.5	7	1-3/4"	4-1/4"	36009	457.90	366.30	-	-	-
2"	11.5	7	1-3/4"	4-1/2"	36010	621.68	497.29	-	-	-

† Small shank .3125 diameter

10034

HSS M Co NC & NF Tap & Die Set

List 7120

- Each set contains
- 1/4" to 1/2" NC & NF HSS Plug Taps
- 1/4" to 1/2" NC & NF Carbon Steel 1" OD Adjustable Dies
- 1/16 Pipe Tap 1/8-27 Carbon Steel 1" OD Round
- #3 Die Stock, #4 "T" Handle Tap Wrench, & Screw Driver



Quantity	Contains	Order No.	Regular Price	SALE
25	Fractional• 1/4 to 1/2 NC & NF HSS Plug Taps• 1/4 to 1/2 NC & NF Carbon Steel 1 OD Dies• #3 Die Stock• #4 T Handle Tap Wrench• Screw Driver• See Related Products for replacement Taps, Dies, Wrench and Die Stock.	37001	1065.17	852.15
49	Tap & Die Set - Master • 1/4 to 1/2 NC & NF HSS Plug Taps • 1/8-27 NPT HSS Tap • 1/4 to 3/8 NC & NF, 1/8 NPT Carbon Steel 1 OD Dies • 7/16 to 5/8 NC & NF Carbon Steel 1-1/2 OD Dies • 3/4 to 1 NC & NF Carbon Steel 2 OD Dies • #3, #5 & #6 Tap Die Stock • #13 & #15 Tap Wrenches • 2 Screwdrivers	37002	3290.46	2632.42

29157

MORSE CUTTING TOOLS Helical Flute Thread Mills - UN

Threads



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

Tolerance:

- Shank diameter -.0001 to -.0003"
- Cutter diameter ±.0005"
- Length of cut ±.050 to .000"
- Overall length ±.015"
- T.I.R. maximum .0005"

Thread Size	Threads per Inch (TPI)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Flute Count (NOF)	Order No.	Regular Price	SALE
#6	32	1/8"	0.218"	3	98600	96.62	77.31
#8	32	1/8"	1/4"	3	98602	96.43	77.10
#8	36	1/8"	1/4"	3	98601	98.57	78.82
#10	24	3/16"	0.312"	3	98603	135.03	108.06
#10	32	3/16"	0.312"	3	98604	135.03	108.06
1/4"	20	3/16"	1/2"	3	98605	142.82	114.30
1/4"	28	3/16"	1/2"	3	98606	142.82	114.30
5/16"	18	1/4"	5/8"	3	98607	174.92	139.89
5/16"	24	1/4"	5/8"	3	98608	174.92	139.89
3/8"	16	5/16"	3/4"	4	98609	223.56	178.82
3/8"	24	5/16"	3/4"	4	98610	223.56	178.82
7/16"	14	3/8"	7/8"	4	98611	265.10	212.05
7/16"	20	3/8"	7/8"	4	98612	265.10	212.05
1/2"	13	3/8"	7/8"	4	98613	267.29	213.87
1/2"	20	3/8"	7/8"	4	98614	267.29	213.87
9/16"	12	1/2"	7/8"	4	98615	291.39	233.12
9/16"	18	1/2"	7/8"	4	98616	293.09	234.52
5/8"	11	1/2"	1-1/4"	5	98617	312.15	249.68
5/8"	18	1/2"	1-1/4"	5	98618	305.63	244.51
3/4"	10	1/2"	1-1/4"	5	98619	349.86	279.89
3/4"	16	1/2"	1-1/4"	5	98620	348.16	278.49
7/8"	9	5/8"	1-1/4"	5	98621	472.46	377.96
7/8"	14	5/8"	1-1/4"	5	98622	472.46	377.96
1"	8	3/4"	1-3/8"	5	98623	525.11	420.11
1"	12	3/4"	1-3/8"	5	98624	525.43	420.32

10382

CUTTING TOOLS



Helical Flute Thread Mills - NPT, NPTF, Pipe Threads

- AlTiN coated
- Helical flute design for reduced cutting forces, smoother cuts, longest tool life, and maximum thread milling performance
- 100% thread form; superior threads vs. tapping
- Cuts right hand and left hand high quality threads
- Internal and external threads
- Suitable for all types of materials, including heat treated and difficult to machine workpieces



Thread Size	Threads per Inch (TPI)	Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Flute Count (NOF)	Morse Cutting Tools, NPT			Morse Cutting Tools, NPTF		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/16"	27	0.245"	1/4"	2-1/2"	3	98641	161.51	129.25	98648	161.51	129.25
1/8"	27	0.31"	5/16"	2-1/2"	4	98642	173.81	139.04	98649	173.81	139.04
1/4"	18	0.37"	3/8"	3"	4	98656	221.11	176.88	98658	221.11	176.88
3/8"	18	0.37"	3/8"	3"	4	98657	221.11	176.88	98659	221.11	176.88
1/2"	14	0.495"	1/2"	3-1/2"	4	98645	332.74	266.24	98652	332.74	266.24
3/4"	14	0.495"	1/2"	3-1/2"	4	98646	332.74	266.24	98653	332.74	266.24
1"	11.5	0.62"	3/4"	4"	5	98647	531.14	424.95	98654	531.14	424.95

10009



ZErO Flute Countersinks & Deburring Tool Sets

Straight Shank, CNC Precision Cam Ground, M35 Cobalt, Chatterless Cutting Action

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



		82 Degrees			60 Degrees			90 Degrees		
Diameter	Quantity	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/2" 3/8" 5/16" 5/8"	4		94.23	84.81		94.23	84.81		94.23	84.81
1/2" 1" 3/8" 5/16" 3/4"	5	53519	166.50	149.81	53509	166.50	149.81	53529	166.50	149.81

9891



Tap and Drills Kits

List 8001

- 10 Popular high speed steel hand taps and drills



Quantity	Standard	Order No.	Regular Price	SALE
20	NC	37103	251.60	201.26
20	NF	37104	328.85	263.09
20	-	37105	263.25	210.62

29209



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

- 60° Plain type
- High speed steel



Order No.	Regular Price	SALE
10000	63.95	57.51

22312



Tool Tap Extension Sets



Tap Size	Style	Order No.	Regular Price	SALE
#0 thru 1/2"	5" Extension	96119	719.03	575.22
#0 thru 1/2"	9" Extension	96120	757.53	606.02

10669

Starrett® Univerz® Portable Bands

With Starrett Bi-Metal Unique Technology

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



Length	Width (W)	Thickness (H)	Teeth per Inch (TPI)	Order No.	Regular Price	SALE
44-7/8"	1/2"	0.02"	10	BM10	19.68	13.78
44-7/8"	1/2"	0.02"	14	BM14	19.68	13.78
44-7/8"	1/2"	0.02"	18	BM18	19.68	13.78
44-7/8"	1/2"	0.02"	24	BM24	19.68	13.78
44-7/8"	1/2"	0.02"	10/14 VT	BM1014	19.68	13.78
44-7/8"	1/2"	0.02"	14/18 VT	BM1418	19.68	13.78

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

25065



Replacement Blades



ProductName	Blade Type	Shaviv Equivalent	Order No.	Regular Price	SALE
Deburring Blade, for Steel, Plastic and Aluminum	B10CO	None	B10CO	2.76	1.93
Deburring Blade-TiN Coated, HSS-HD, for Very Small Holes	S150-TiN	None	BK3112	3.75	2.63
N1 Right-Handed HSS Deburring Swivel Blade Deburring Blade for Steel, Plastic and Aluminum.	N1	B10	N1	2.18	1.53
Deburring Blade, for Steel, Plastic and Aluminum	N1C	B10C	N1C	7.77	5.44
Deburring Blade, for Steel, Plastic and Aluminum	N1D	None	N1D	13.13	9.19
Deburring Blade, left handed, for Steel, Plastic and Aluminum	N1LH	None	N1LH	3.09	2.16
Deburring Blade, for High Wear Materials	N1TiN	B10P	N1TiN	2.83	1.98
Deburring Blade, for Brass and Cast Iron	N2	B20	N2	2.18	1.53
Deburring Blade, for Brass and Cast Iron	N2C	B20C	N2C	7.78	5.45
Deburring Blade, to Remove External & Internal Burrs	N3	B30	N3	2.80	1.96
Deburring Blade, for Inside Cross Holes & Back	N6	B60	N6	4.20	2.94
Deburring Blade, for Steel, Aluminum and Plastic	S10	E100	S10	2.86	2.00
NOGA S100 COBALT HD BLADE	S100	None	S100	3.32	2.32
Deburring Blade, HSS-HD, for Small Holes	S101	None	S101	2.96	2.07
Deburring Blade, left handed, for Small Holes	S101LH	None	S101LH	3.48	2.44
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10D	None	S10D	13.50	9.45
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10LH	None	S10LH	3.95	2.77
NOGA S10TiN HD BLADE TiN	S10TiN	E100P	S10TiN	3.59	2.51
NOGA S150 HEAVY DUTY	S150	None	S150	3.27	2.29
Deburring Blade, HSS-HD, for Brass and Cast Iron	S20	E200	S20	3.14	2.20
Deburring Blade, for Fine Point for Brass & Cast Iron	S202	None	S202	3.27	2.29
Deburring Blade, for Removing External & Internal Burrs	S30	E300	S30	3.14	2.20
Deburring Blade, HSS-HD, for Straight Edges	S35	E350	S35	3.23	2.26
Deburring Blade, for Inside Cross Hole & Back	S60	E600	S60	4.45	3.12

24088



S Promo Set

- Deburr: steel, aluminum and plastic.
- Includes: NogaGrip 1 handle, 10 Pcs. S10 blades



Order No.	Regular Price	SALE
NG8150	17.25	15.50

10113



NG Handles & S & N Holders



For Use With	Type	Order No.	Regular Price	SALE
N Blades	N Blade Holder	EL01003	7.33	5.50
S Blades	S Blade Holder	EL02003	7.33	5.50
S Blades	NG-1 Handle	NG1000	9.15	6.86
N Blades	NG-2 Handle	NG2000	9.38	7.04
All Blade Holders	NG-3 Handle	NG3000	9.38	7.04

24075



Ceramic Convexed Cera-Cut

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



Order No.	Regular Price	SALE
CR2000	36.78	33.07

24068



Reversible Countersinks

- 00 - 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.
- similar to only larger
- 00 - similar to 00 only larger



Included	Order No.	Regular Price	SALE
Steel Handle / R1 Blade	RC1000	31.53	28.40
Steel Handle / R2 Blade	RC2000	31.53	28.40
Steel Handle / R3 Blade	RC2200	37.53	33.80
Set of all 3	RC3300	100.60	90.51

22419



Double Burr

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



Order No.	Regular Price	SALE
DB1000	24.70	22.22

10075



Universal Handy Chuck Holder

Model 00-

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



Order No.	Regular Price	SALE
PV1000	61.28	45.96

10120

FLUIDS

CRC Greases

Extreme Pressure Moly-Graph Multi-Purpose Grease:

- Improves metal finish, reduces wear, increases parts life, reduces down-time and increases relubrication intervals
- Contains rust and oxidation inhibitors and extreme pressure additives

Extreme Pressure Sta-Plex Premium Red Grease:

- An NLGI grade lithium complex premium grease
- Provides superior rust protection and oxidation resistance
- Tackiness additive prevents grease from slinging-off bearings at high RPMs

Lithium General Purpose Grease:

- Economical general purpose grease designed for light duty applications
- Highly water resistant
- Will not break down or run out
- NLGI #2 Lithium-12 based



SL3190



SL3310



SL3330

Type	Container Size	Order No.	Regular Price	SALE
Extreme Pressure	14 oz	SL3190	17.33	15.63
Multi Purpose	14 oz	SL3310	9.53	8.58
Extreme Pressure	14 oz	SL3330	12.23	10.96

8176

JET-LUBE Premium EP Greases

- CB-2** contains no solids. Has buttery consistency and a high melting point. Color: amber. Service rating: -10°F to 300°F
- 202 Moly-Lithium** is highly adhesive lubricant with low friction properties. Color: black. Service rating: -10°F to 300°F
- AP-5** is a non-melting grease containing moly for reduced friction and increased load carrying capacity. Color: black. Service rating: -10°F to 550°F
- AP-1** is clear grease for roller bearing, electric motor, blower and dryers. Color: amber. Service rating: -10°F to 550°F
- Marine** multi-purpose grease with EP additives is a versatile water resistant lithium grease. Color: purple. Service rating: -10°F to 325°F



Series	Order No.	Regular Price	SALE
AP-5	25050	16.36	15.88
CB-2	31050	16.01	15.20
AP-1	31550	13.51	12.83
Moly	33050	17.74	16.85
Marine	63050	14.63	13.92

8335

Accu-Lube LB-6800

- Aluminum sawing lubricant
- Designed for aluminum extruders
- Non-staining and easily burns off during post heat treat processes
- Environmentally safe, biodegradable and non-toxic



Container Size	Order No.	Regular Price	SALE
1 gallon	LB6800	144.51	130.04
55 gallon	LB6855	7805.82	7025.25

†All 55 Gallon Drums FOB Factory

8272

ASHBURN APEX 6000 Heavy Duty Synthetic Coolant

- Excellent lubricity
- Excellent tool life and finish
- Provides long sump life
- Superb corrosion protection
- Non-foaming
- Transparent
- Does not contain nitrites, chlorine or sulfur



Container Size	Order No.	Regular Price	SALE
1 gallon	A600311	54.73	51.99
5 gallon	A600405	190.53	180.97
55 gallon	A605555	1847.64	1755.24

All 55 Gallon Drum FOB Factory

8126



7700EP

Heavy Duty Semi-Synthetic Coolant

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



Container Size	Order No.	Regular Price	SALE
5 gallon	A770405	175.47	166.70
55 gallon	A770455	1597.96	1518.06

All 55 Gallon Drums FOB Factory

8140



9500 Heavy Duty Soluble Oil

- Excellent sump life
- Superb lubricity and EP properties
- Good tramp oil rejection
- Provides good rust and corrosion protection
- Additional handling charges may apply
- Additional UPS charges may apply
- 55 Gallon F.O.B. Factory by truck only

A heavy duty water soluble oil. It is designed to be effective in a wide variety of machining and grinding applications. Can be used on ferrous and non-ferrous materials.



Container Size	Order No.	Regular Price	SALE
1 gallon	A950111	72.47	68.84
5 gallon	A950205	251.44	238.84
55 gallon	A950355	2364.87	2246.60

All 55 Gallon Drums FOB Factory

8141



Edge Lube

For Sawing and Grinding Applications

- White, solid, waxy bar, biodegradable
- Excellent for abrasive belt, grinding wheels/discs & saw blades
- Eliminates heat build-up and belt loading
- Extends grinding wheel & saw blade life
- Does not contain any hazardous chemicals
- Low toxicity, safe on all metals



Container Size	Order No.	Regular Price	SALE
13 oz	43200	30.02	25.47

8369



TRIM® MicroSol® 585XT

Extended Life Non-Chlorinated Semi-Synthetic

- Extends useful life without the need for tank-side biocides or fungicides
- Low foaming ideal for high-pressure, high-volume applications
- Compatible with cast iron, steels, copper, titanium, and aluminum alloys, plastics and composites
- Cooling and lubricity for titanium machining applications
- Corrosion inhibition on cast iron and eliminates "hot chip" and clinkering problems
- Excellent alternative to chlorinated soluble oils on high-silica aluminum alloys
- Contains no nitrites, triazines, phenols, chlorinated, or sulfurized EP additives
- Provides superior corrosion inhibition on all ferrous and nonferrous metals
- Keeps machines very clean for reduced maintenance
- Requires no special disposal or recycling techniques



Container Size	Order No.	Regular Price	SALE
5 gallon	6245	228.90	217.47
54 gallon	6250	1882.98	1788.83

All 54 Gallon Drums FOB Factory

8486

Master Fluid SOLUTIONS TRIM® E206**Long Life Emulsion**

- Versatile product works in heavy-duty broaching, gear hobbing, surface and centerless grinding, and replacing straight oil on some types of screw machines
- Contains highly effective extreme-pressure additives to control built-up edge
- Compatible with all ferrous and nonferrous materials
- Extremely stable emulsion to reduce carry-off and to facilitate getting the fluid to the point of cut
- Rejects tramp oil to help extend sump life and increase recycling options
- Leaves a soft fluid film to prevent sticky ways, chucks, tool holders, and fixtures
- Coolant residue is easily removed with water, working solution, or aqueous cleaners
- Easy recycling or disposal with conventional techniques and equipment



Container Size	Order No.	Regular Price	SALE
1 gallon		50.73	48.16
5 gallon		233.03	221.36
54 gallon	6010	1921.32	1825.24

All 54 Gallon Drums FOB Factory

8490

Master Fluid SOLUTIONS TRIM® O-**General Purpose Se etic**

- Good sump life in "stand-alone" machines
- Low odor and mist
- Effective in most grinding, sawing, drilling, and CNC turning and milling operations by varying concentrations
- Provides sufficient lubricity to do down-the-hole operations in aluminum, cast iron, and most steels, including many stainless steels
- Compatible with cast iron, steels, copper, and aluminum alloys, as well as, most plastics and composites
- Rejects tramp oils rapidly for easy recycling with good sump life
- Easily recycled or disposed of using conventional techniques and equipment



Container Size	Order No.	Regular Price	SALE
1 gallon		39.53	37.57
5 gallon		177.04	168.16
54 gallon	6810	1401.30	1331.26

† All 54 Gallon Drums FOB Factory

8491

Master Fluid SOLUTIONS TRIM® SOL®**General Purpose Emulsion**

- Proven to be highly effective in controlling built-up edge (BUE)
- Soluble oil (emulsion) coolant concentrate
- Used for production surface and centerless grinding, heavy-duty broaching, gear hobbing, and replacing straight oil on some types of screw machines
- Leaves a fluid, non-gumming film to prevent sticky ways, chucks, tool holders, and fixtures
- Coolant residue is easily removed with either water, working solution, or aqueous cleaners
- Easy recycling or disposal with conventional techniques and equipment



Container Size	Order No.	Regular Price	SALE
1 gallon		49.21	46.79
5 gallon		225.47	214.18
54 gallon	6910	1851.12	1758.55

All 54 Gallon Drums FOB Factory

8492

Master Fluid SOLUTIONS STAGES™ Whamex™**Machine Tool Sump and System Cleaner**

- Quickly breaks down and lifts off insoluble scum deposits hidden in lines and difficult to reach
- Very hard water tolerant allowing it to be effective in raw water or used coolant
- Compatible with most waste treatment (including ultrafiltration) and will not degrade when used as directed
- Will remove heavy soils from machines without affecting paints, coatings, seals, hoses, or skirting, and it won't leave a slippery residue
- Short-term corrosion inhibitors prevent flash rusting of machine surfaces and ways



Container Size	Order No.	Regular Price	SALE
1 gallon		48.70	46.31
54 gallon	5710	222.91	211.75

† All 54 Gallon Drums FOB Factory

8493

Rustlick WS-5050**Heavy-Duty Soluble Oil**

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



Container Size	Order No.	Regular Price	SALE
1 gallon	74016	69.15	62.28
5 gallon	74056	276.28	248.66

8314

Mobil Vactra Numbered Series 2 & 4 Way Oil

- Helps eliminate chatter and stick-slip of slides and ways
- Improves finish and quality of parts
- Helps reduce wear and keeps sliding surfaces smooth, lubricated and clean
- Mobil Vactra Oil No. 2 is recommended for horizontal slideways on small to medium size machine tools. It is also suitable for flood application in large machines
- Mobil Vactra Oil No. 4 is the normal recommendation for large machines where way pressures are high or good precision is required. It is also recommended for vertical and inclined slideways where drain-down cohesion can be a problem
- Additional handling charges may apply



		Vactra No.2			Vactra No.4		
Container Size	SAE Grade	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 gallon	68	VACTRA21	44.46	37.76	-	-	-
5 gallon	68	VACTRA25	220.00	187.00	VACTRA45	221.30	188.10

Available qty to purchase could be limited

8241

LOCTITE Retaining Compoud

- Fully cure in 24 hours
- Low viscosity
- Bond rigid metal assemblies
- Agency approvals: CFIA, MIL-R-46082B for existing designs, ASTM-D-5363 for new designs
- General purpose, 50ml, max. temp. (F) 300, shear strength (PSI) 3000, full cure 24 hrs., filling gap size up to .005"
- T Primer, general purpose low viscosity, fast cure, shaft mount, press fit or slip fit/housing mount, press fit



Container Size	Order No.	Regular Price	SALE
10 ml	60921	20.61	16.48
50 ml	60931	56.77	45.42
250 ml	60941	199.14	165.28

23736

DYKEM Layout Fluid (Steel Blue)

- Machine shop operators depend on DYKEM layout fluids to scribe sharp clear precise lines
- Toluene free formula for workers' safety
- Provides a uniform, deep color that prevents glare
- Dries in minutes, reduces eyestrain
- Provides an extremely thin coating which adds practically no thickness to the workpiece
- Remains flexible without cracking or chipping



Container Size	Container Type	Order No.	Regular Price	SALE
2 oz	Felt Tip Applicator	80200	10.33	9.27
4 oz	Brush in Cap Bottle	80300	12.36	11.08
8 oz	Brush in Cap Bottle	80400	17.07	15.40
12 oz	Aerosol Can	80000	19.24	17.32
31 oz	Jug with Handle	80600	30.53	27.48

23342

ABRASIVES



Small Diameter Cut-Off Wheels

Gemini:

- Aluminum oxide grain
- Best for steel and ferrous metals as well as aluminum and foundries

Bluefire:

- Zirc/AO blend
- For light to heavy applications on gray iron, carbon, stainless steel and alloys



Gemini					
Diameter	Thickness	Arbor Hole	Order No.	Regular Price	SALE
3"	0.035"	1/4"		3.60	2.86
3"	0.035"	3/8"		3.60	2.86
3"	1/16"	1/4"		3.60	2.86
3"	1/16"	3/8"		3.55	2.86
3"	1/16"	1/4"		2.43	1.94
4"	0.035"	1/4"		4.95	3.98
4"	0.035"	3/8"		5.55	4.48
4"	1/16"	1/4"		4.90	3.90
4"	1/16"	3/8"	040010655	4.90	3.90

Blue Fire					
Diameter	Thickness	Arbor Hole	Order No.	Regular Price	SALE
3"	0.035"	3/8"		17.36	13.89
3"	0.035"	3/8"		5.86	4.67
3"	1/16"	3/8"		5.95	4.79
4"	1/16"	3/8"		8.07	6.46
4"	0.035"	3/8"	040043173	8.07	6.46

24139



Reinforced Toolroom Cut-Off Wheels

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



Diameter	Thickness	Arbor Hole	Specification	Order No.	Regular Price	SALE
3"	0.06"	1/4"	A60-OBNA2	030028471	8.31	6.61
3"	0.06"	3/8"	A60-OBNA2	030028552	8.31	6.61
6"	0.035"	1/2"	A60-OBNA2	060035053	25.43	20.38
6"	0.06"	1/2"	A60-OBNA2	060035164	52.64	42.16
6"	0.06"	1-1/4"	A60-OBNA2	060035165	32.38	25.88
7"	1/16"	5/8"	57A364-TB25N	070022673	60.33	48.26
7"	0.035"	5/8"	A60-OBNA2	070038787	32.38	25.88
7"	0.035"	1-1/4"	A60-OBNA2	070038788	35.55	28.39
7"	0.06"	1-1/4"	A602-OBNA2	070038796	35.55	28.39
7"	0.06"	5/8"	A60-OBNA2	070038811	32.88	26.31
8"	0.035"	5/8"	A60-OBNA2	080042979	41.29	33.01
8"	0.06"	5/8"	A60-OBNA2	080042981	41.29	33.01
8"	0.06"	1-1/4"	A60-OBNA2	080042983	41.29	33.01

24155



Long Life Premium Aluminum Oxide

Cutting Wheels

- Delivers the right combination of performance and value
- Versatile line up offers a long life solution for all your general purpose applications
- Best on carbon steel, structural steel, cast iron and general purpose metal use



				Arbor Hole - 7/8", Type 1			Arbor Hole - 5/8"-11, Type 27			Arbor Hole - 7/8", Type 27		
Diameter	Thickness	Grit	Specification	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	.045"	60	A60T	57020	3.83	3.06	57040	6.50	5.20	57041	4.08	3.26
4 1/2"	1/4"	24	A24R	-	-	-	57120	7.22	5.78	57121	4.25	3.40

25434



Premium Aluminum Oxide

Cutting Wheels

- Premium aluminum oxide grains provide an even, sharp, clean cut and a hard bond extends life and maximizes performance
- Type 1



Diameter	Thickness	Arbor Hole	Specification	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
3"	.035"	3/8"	A60T	25,000	100	57001	2.72	2.18
3"	1/16"	3/8"	A36T	25,000	100	57060	2.72	2.18

788



Zip One Aluminum Oxide Type 1

Cut Off Wheel

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



Diameter	Thickness	Arbor Hole	Grit	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
4 1/2"	1/32"	7/8"	60	13,000	25	11T542	5.82	5.24

710

3M 3M™ Silver Type 1 Cut Off Wheels

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



Diameter	Thickness	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
3"	.035"	1/4"	25,465		2.44	2.18
3"	.035"	3/8"	25,465		2.41	2.18
3"	.060"	3/8"	25,465		2.76	2.48
4"	.035"	1/4"	19,100		2.62	2.38
4"	.035"	3/8"	19,100		2.62	2.38
4"	.060"	3/8"	19,100		3.08	2.78
4-1/2"	.040"	7/8"	13,300		3.32	2.97
4-1/2"	.045"	7/8"	13,300		3.32	2.97
4-1/2"	.045"	7/8"	13,300		3.32	2.97
5"	.045"	7/8"	12,250		3.50	3.17
5"	.045"	7/8"	12,250		3.52	3.17
6"	.045"	7/8"	10,200		5.49	4.95
6"	.045"	7/8"	10,200	87470	6.08	5.45

147



Thin Flex Cut-Off

Wheels

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



Diameter	Arbor Hole	Thickness	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	.035"	60	0450357160Z	2.69	1.88
5"	7/8"	.040"	60	0500407160Z	3.06	2.14
6"	7/8"	.040"	60	0600407160Z	3.46	2.42

25178

SURF PRO Small Diameter Thin Cut-Off Wheels - Aluminum Oxide - Type 1

- Aluminum oxide grain
- Fiberglass reinforced
- General purpose rapid cutting applications
- Use for thin gauge sheet stock, thin walled tubing and small diameter cross sections
- Economical choice for cutting iron, steel, stainless steel and other materials

Diameter	Arbor Hole	Thickness	Grit	Specification	Maximum RPM	Order No.	Regular Price	SALE
2"	1/8"	.060"	36	A36-T-BF	30,550	0200601136A	3.45	2.42

30933



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

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

Diameter	Thickness	Arbor Hole	Grit	Order No.	Regular Price	SALE
2"	.060"	1/4"	46	0200602146Z	3.41	2.39

30934



SURF PRO High Performance Cut-Off Wheels

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

Diameter	Thickness	Arbor Hole	Wheel Type	Order No.	Regular Price	SALE
3"	.040"	3/8"	Type 1	0304038HPA	1.24	0.87
3"	1/16"	3/8"	Type 1	0311638HPA	1.24	0.87
4 1/2"	.045"	7/8"	Type 1	4504578HPA	1.55	1.09
6"	.045"	7/8"	Type 1	0604578HPA	3.28	2.30

680



CGW Fast Cut Stationary Saw Wheels

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

Diameter	Thickness	Arbor Hole	Specification	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
12"	1/8"	1"	A24-RBF	5100	10	70105	8.27	7.45
20"	5/32"	1"	A24-RBF	3100	10	70108	37.03	33.33
20"	3/16"	1"	A24-RBF	3100	10	70109	41.73	37.59

215



CGW Super Quickie Cut Reinforced Cut-Off Wheels

Type 1 & Type 27

#1 Wheel choice for steel applications.

			Type 1			Type 27		
Diameter	Thickness	Arbor Hole	Maximum RPM	Specification	Standard Pack	Order No.	Regular Price	SALE
4 1/2"	.045"	7/8"	13300	A60-TBF	50	45102	3.38	2.99
						45103	3.27	2.97

22873



CGW Reinforced Cut-Off Wheels

For Hand Held Grinders

- Ideal for cutting off ferrous metals, alloy steels and cast iron.
- Aluminum oxide abrasive - fast cutting action.
- Resinoid bond - long life - burn free cutting.
- High strength reinforcement - resists breakage



Aluminum Oxide								
Diameter	Thickness	Arbor Hole	Specification	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
1 1/2"	1/32"	1/4"	A60-RBF	45000	50		2.01	1.82
1 1/2"	1/16"	1/4"	A60-RBF	45000	50		2.01	1.82
2"	1/32"	3/8"	A60-RBF	30000	50		2.01	1.82
2"	1/16"	1/4"	A36-TBF	30000	50		2.01	1.82
2"	1/16"	3/8"	A36-RBF	30000	50		2.01	1.82
2"	1/8"	3/8"	A24-RBF	30000	50		2.21	1.98
3"	1/32"	1/4"	A60-RBF	25000	50		2.01	1.82
3"	1/32"	3/8"	A60-RBF	25000	50		2.01	1.82
3"	1/16"	1/4"	A36-RBF	25000	50		2.03	1.81
3"	1/16"	1/4"	A60-RBF	25000	50		2.03	1.81
3"	1/16"	3/8"	A36-RBF	25000	50		2.03	1.81
3"	1/16"	3/8"	A60-RBF	25000	50		2.03	1.81
3"	1/8"	1/4"	A24-RBF	25000	50		2.30	2.04
3"	1/8"	3/8"	A24-RBF	25000	50		2.30	2.04
4"	1/32"	1/4"	A60-RBF	19100	50		2.59	2.34
4"	1/32"	3/8"	A60-RBF	19100	50		2.59	2.34
4"	1/16"	1/4"	A36-RBF	19100	50		2.84	2.58
4"	1/16"	1/4"	A60-RBF	19100	50		2.84	2.58
4"	1/16"	3/8"	A36-RBF	19100	50		2.84	2.58
4"	1/16"	3/8"	A60-RBF	19100	50		2.84	2.58
4"	1/16"	5/8"	A36-RBF	19100	50		2.84	2.58
4"	1/8"	1/4"	A24-RBF	19100	50		3.20	2.87
4"	1/8"	3/8"	A24-RBF	19100	50	35512	3.20	2.87

Aluminum Oxide, Fast Cut								
Diameter	Thickness	Arbor Hole	Specification	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
4"	1/32"	1/4"	A60-RBF	19100	50	59106	1.09	0.97

236

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		55.12	49.57
1"	50 yard	X	60	5		51.50	46.40
1"	50 yard	J	80	5		43.50	39.14
1"	50 yard	J	120	5		42.06	37.81
1"	50 yard	J	150	5		42.06	37.81
1"	50 yard	J	180	5		42.06	37.81
1"	50 yard	J	220	5		42.06	37.81
1"	50 yard	J	240	5		42.06	37.81
1"	50 yard	J	280	5		42.06	37.81
1"	50 yard	J	400	5		42.06	37.81
1 1/2"	50 yard	X	50	5		76.88	69.18
1 1/2"	50 yard	J	80	5		60.92	54.87
1 1/2"	50 yard	J	120	5		58.74	52.84
1 1/2"	50 yard	J	150	5		58.74	52.84
1 1/2"	50 yard	J	180	5		58.74	52.84
1 1/2"	50 yard	J	220	5		58.74	52.84
1 1/2"	50 yard	J	240	5		58.74	52.84
1 1/2"	50 yard	J	280	5		58.74	52.84
1 1/2"	50 yard	J	400	5		58.74	52.84
2"	50 yard	X	50	5		99.35	89.42
2"	50 yard	X	60	5		93.57	84.21
2"	50 yard	J	80	-		78.33	70.51
2"	50 yard	J	100	5		74.70	67.25
2"	50 yard	J	120	5		74.70	67.25
2"	50 yard	J	150	5		74.70	67.25
2"	50 yard	J	180	5		74.70	67.25
2"	50 yard	J	220	5		74.70	67.25
2"	50 yard	J	240	5		74.70	67.25
2"	50 yard	J	280	5		74.70	67.25
2"	50 yard	J	320	5		74.70	67.25
2"	50 yard	J	400	5	19814	74.70	67.25

150

ABRASIVES

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"	001414SH	7.83	5.48
1/4" or 3/8"	1/4"	2.15"	3/4"	143814SH	9.01	6.31
3/8"	1/4"	2.15"	3/4"	003814SH	7.83	5.48

Arbor Adapter, Nut Type						
Arbor Hole	Shank	Length	Washer OD	Order No.	Regular Price	SALE
1/4"	1/4"	2.50"	1"	001414NT	7.42	5.19
3/8"	1/4"	2.50"	1"	003814NT	7.42	5.19
1/2"	1/4"	2.50"	1 1/2"	001214NT	8.03	5.62

696

SURF PRO Air Cooled Quick Change Holder Pads

- Serated pad air cools disc for reduced loading and longer disc life
- Multiple mounting option available



Diameter	Disc Mount	Style	Maximum RPM	Order No.	Regular Price	SALE
1 1/2"	TR	Air Cooled Quick Change	30,000	QCH15TR14SC	12.54	8.78
1 1/2"	TS	Air Cooled Quick Change	30,000	QCH15TS14SC	12.54	8.78
2"	TR	Air Cooled Quick Change	30,000	QCH20TR14SC	13.05	9.14
2"	TS	Air Cooled Quick Change	30,000	QCH20TS14SC	13.05	9.14
3"	TR	Air Cooled Quick Change	20,000	HK3TR14M58A	37.93	26.55
3"	TR	Air Cooled Quick Change	20,000	QCH30TR14SC	14.76	10.33
4"	TR	Air Cooled Quick Change	15,000	QCH40TR14SC	23.87	16.71
4"	TS	Air Cooled Quick Change	15,000	QCH40TS14SC	23.87	16.71
3"	TS	Air Cooled Quick Change	20,000	QCH30TS14SC	14.76	10.33

22031

NORTON R766 Cloth Discs

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



TR Type III						TS Type II		
Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
2"	24	100	D0219013	0.90	0.68	-	-	-
2"	P36	100	-	-	-	D0218999	1.52	1.26
2"	P40	100	-	-	-	D0219000	1.45	1.21
2"	P60	100	-	-	-	D0219003	1.48	1.16
2"	P80	100	D0219009	1.45	1.16	D0219004	1.45	1.16
3"	P36	50	D0319027	2.26	1.80	-	-	-
3"	P40	50	-	-	-	-	-	-
3"	P50	50	D0319029	2.19	1.70	-	-	-
3"	P60	50	D0319030	2.05	1.61	D0319024	2.14	1.68

1-1/2" Holder: TS - A43200, TR - A475002, Holder: TS - A43210, TR 471
- A4551033, Holder: TS - A43225, TR - 55105

22

3M Scotch-Brite™ Surface Conditioning Discs - Hook-and-Loop

- Aluminum Oxide
- Great general purpose surface conditioning disc
- For finishing, cleaning and light deburring
- Attach and remove easily to 3M™ Hook-and-Loop Backup Pads
- Use with right angle and random orbital tools
- 7" Available



Diameter	Maximum RPM	Grade	Color	Standard Pack	Order No.	Regular Price	SALE
4 1/2"	13000	Coarse	Brown	50		4.74	4.22
4 1/2"	13000	Medium	Maroon	50		4.17	3.75
4 1/2"	13000	Very Fine	Teal	50		4.17	3.75
5"	10000	Coarse	Brown	50		5.69	5.14
5"	10000	Medium	Maroon	50		5.00	4.52
5"	10000	Very Fine	Teal	50		5.00	4.52
7"	6000	Coarse	Brown	25		9.79	8.83
7"	6000	Medium	Maroon	25		8.60	7.71
7"	6000	Very Fine	Teal	25	04305	8.60	7.71

145

3M Stikit™ Disc Rolls 236U

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



Diameter - 6"			
Grit	Order No.	Regular Price	SALE
P80	55560	99.93	89.93
P120	55562	92.24	82.98
P320	55567	92.24	82.98

Diameter - 5"			
Grit	Order No.	Regular Price	SALE
P150	55543	65.32	58.77
P120	86490	65.32	58.77
P180	86492	65.32	58.77
P320	86495	65.32	58.77

149

3M PSA Discs 348D



Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
2"	80	50	20909	1.00	0.92

30940

SURF PRO Ceramic Grain Quick Change Abrasive Discs



Diameter	Grit	Order No.	Regular Price	SALE
2"	36	QCR20036C	1.24	1.02

30932



Metallurgical Silicon Carbide Sanding Discs

- Pasco Metallurgical Silicon Carbide Sanding Discs



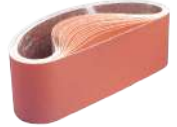
Plain Back					
Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
8"	60/60	25		0.84	0.73
8"	120/120	100		0.53	0.48
8"	600/1200	100		0.43	0.39
12"	240/240	100	52941	0.89	0.77

PSA					
Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
8"	120/P120	100		0.74	0.67
8"	180/P180	100		0.69	0.59
8"	240/P240	100		0.63	0.57
8"	320/P400	100		0.63	0.57
8"	600/P1200	100		0.63	0.57
12"	60/P60	100		2.34	2.09
12"	180/P180	100		1.40	1.27
12"	320/P400	100		1.29	1.16
12"	400/P800	100	52957	1.29	1.16

261

3M Abrasive Belts - 241D

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



Width	Length	Grit	Order No.	Regular Price	SALE
1"	42"	60	01450	3.24	2.87
1"	42"	80	01451	2.93	2.66
1"	42"	100	01452	2.74	2.45
1"	42"	120	01453	2.74	2.45
6"	48"	60	01457	14.27	12.88
6"	48"	80	10454	12.96	11.65
6"	48"	100	10455	12.15	10.93
6"	48"	120	10456	12.15	10.93
2"	72"	180	26309	5.22	4.71
2"	72"	60	26316	6.11	5.53
2"	72"	80	33067	5.56	5.01
2"	72"	240	81752	5.22	4.71

22576



Abrasive Belts

- Norton Abrasive Belts - Premier belts for production metal finishing
- Aluminum Oxide - Versatile abrasive for general purpose applications, X weight cloth back
- Zirconia Alumina - Recommended for removal and finish on ferrous 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	B0422095	9.33	7.46	B0627698	23.93	19.18
6"	48"	40	B0120900	3.95	3.13	B0627697	25.38	20.30
6"	48"	40	B0622585	30.98	24.81	B0628937	22.45	17.97
6"	48"	60	B0622575	22.05	17.67	B0628931	19.81	15.88
2"	48"	80	B0622570	17.17	13.77	B0227099	6.40	5.13
2"	48"	120	B0622560	16.64	13.36	B0228615	6.98	5.57

24108



Flexible Diamond Hand Pads

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



Width	Length	Grit	Color	Order No.	Regular Price	SALE
2 1/8"	3 1/2"	400	Yellow		34.26	27.45
2 1/8"	3 1/2"	60	Green		62.83	50.31
2 1/8"	3 1/2"	120	Black		51.31	41.07
2 1/8"	3 1/2"	200	Red		43.45	34.72
2 1/8"	3 1/2"	800	White		34.26	27.45
2 1/8"	3 1/2"	1800	Blue	HP06364	34.26	27.45

24138



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



Diameter	40			60			80			100			120			36		
	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"		0.26	0.20	PSAD02060A	0.27	0.21		0.48	0.37		-	-		-	-		-	-
3"	PSAD03040A	0.47	0.36		-	-		0.42	0.32	PSAD03100A	0.37	0.28		0.37	0.28		-	-
5"		-	-		-	-		1.08	0.83		-	-		1.02	0.79	PSAD05036A	1.47	1.13
6"		1.86	1.43		-	-		1.52	1.17		1.08	0.83		1.37	1.05		-	-
8"		2.28	1.76	PSAD08060A	2.86	2.20		2.63	2.03	PSAD08100A	1.97	1.52		1.97	1.52	PSAD08036A	3.83	2.95
9"		4.02	3.10		-	-		3.49	2.69		-	-	PSAD09120A	3.66	2.82		-	-
10"	PSAD10040A	4.91	3.78		-	-		5.30	4.08		4.15	3.20		-	-		-	-
12"		-	-		-	-		6.02	4.64		5.84	4.34	PSAD12120A	5.64	4.34		8.69	6.69
15"		-	-		-	-		9.57	7.37	PSAD15100A	9.28	7.15		-	-		11.42	8.79
16"		-	-		9.12	7.02		8.59	6.61		-	-		8.10	6.24	PSAD16036A	13.41	10.33
20"		-	-	PSAD20060A	15.77	12.14		14.79	11.39		11.03	8.49		14.92	11.49		-	-
24"	PSAD24040A	27.29	21.01		-	-	PSAD24080A	25.02	19.27	PSAD24100A	23.14	17.82	PSAD24120A	23.14	17.82		-	-

25147

ABRASIVES



Abrasive Sheets - 9" x 11"

Aluminum Oxide Cloth Sheets - Metalworking

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

Silicon Carbide Waterproof Paper Sheets - Metalworking & Woodworking

- Ideal for all materials, and prepaint applications
- Waterproof
- Standard pack: 60, 80 Grit, 25 pack - 100-800 grit, 50 pack



Aluminum Oxide				
Grit	Sheets Per Package	Order No.	Regular Price	SALE
P60	25		2.71	2.12
P80	25		2.31	1.82
P100	50		2.14	1.71
P120	50		2.14	1.71
P150	50		2.14	1.71
P180	50		2.14	1.71
P240	50		2.14	1.71
P320	50	S91126332	2.14	1.71

Silicon Carbide				
Grit	Sheets Per Package	Order No.	Regular Price	SALE
180	50		2.00	1.63
220	50		1.79	1.46
240	50		1.79	1.46
320	50		1.79	1.46
400	50		1.79	1.46
500	50		1.79	1.46
600	50	S91139360	1.79	1.46

24112



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		0.80	0.60
80		0.76	0.60
120		0.74	0.60
150		0.60	0.50
180		0.55	0.40
220		0.55	0.40
240		0.48	0.40
280		0.55	0.40
320		0.52	0.40
360		0.52	0.40
400		0.52	0.40
500		0.52	0.40
600		0.52	0.40
1000	S9111000S	0.55	0.40

10739



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		26.00	18.72
6"	3/4"	1"	60		32.27	23.23
6"	3/4"	1"	80		26.00	18.72
6"	1"	1"	36		29.93	21.55
6"	1"	1"	60		29.93	21.55
6"	1"	1"	80		37.14	26.74
7"	1"	1"	36		41.86	30.14
7"	1"	1"	60		41.85	30.13
8"	1"	1"	36		56.09	40.38
8"	1"	1"	60		56.08	40.38
8"	1"	1"	80	084041A080M	56.08	40.38

28695



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

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



Diameter	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	5/8"-11	13,580		22.21	17.77
4 1/2"	7/8"	13,580		19.00	15.20
5"	5/8"-11	12,225		24.86	19.89
5"	7/8"	12,225		22.21	17.77
6"	5/8"-11	10,185		30.69	24.55
6"	7/8"	10,185		27.02	21.62
7"	5/8"-11	8,600		32.24	25.79
7"	7/8"	8,600	D070070800	28.33	22.66

478



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

Use with Right Angle Air/Electric Grinders

A24 N Grade

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

A24 R Grade

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



				A24R			A24N		
Diameter	Width	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	1/4"	7/8"	13,300		3.86	3.14		3.86	3.14
4 1/2"	1/4"	5/8"-11	13,300	20163	6.80	5.44	20160	6.80	5.44

25344

3M Cubitron II Type Q Depressed Center Grinding Wheels

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



Diameter	Width	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	1/4"	5/8"-11	13,300		6.85	6.15
4 1/2"	1/4"	5/8"-11	13,300		4.30	3.86
5"	1/4"	5/8"-11	12,250		7.80	7.04
5"	1/4"	7/8"	12,250		15.59	14.08
5"	1/4"	7/8"	12,250		4.99	4.46
7"	1/4"	5/8"-11	8,500		11.06	10.00
7"	1/4"	5/8"-11	8,500		9.52	8.52
7"	1/4"	7/8"	8,500		19.94	17.96
9"	1/4"	5/8"	6,650		29.92	26.94
9"	1/4"	5/8"-11	6,650		16.24	14.66
9"	1/4"	5/8"-11	6,650		14.36	12.88
9"	1/4"	7/8"	6,650	64316	27.51	24.76

95



3-in-1 Cut-Grind-Finish Depressed Center Wheels - Type 27

- Cuts quickly, grinds easily and finishes work surfaces
- Contaminant free: less than 0.1 percent iron, sulfur or chlorine
- Fiberglass net reinforcement provides added strength and flexibility
- Ideal for stainless steel and a wide variety of metals and cutting metal profiles and thin pipes, and removing weld slag
- Use instead of a flap disc to complete the job with an excellent finish



Diameter	Arbor Hole	Width	Grit	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	7/8"	3/32"	36	13,300	45218	3.02	2.68
4 1/2"	5/8"-11	3/32"	36	13,300	45219	5.79	5.22
5"	7/8"	3/32"	36	12,250	45220	3.65	3.31
5"	5/8"-11	3/32"	36	12,250	45221	6.55	5.89
6"	7/8"	3/32"	36	10,200	45222	5.38	4.82
6"	5/8"-11	3/32"	36	10,200	45223	8.17	7.36

**Mini Flap Discs**

- Plate steel/structural steel
- Civil/construction/military equipment
- Propane tanks
- Farm equipment
- Strong zirconia alumina plus abrasive delivers aggressive cut rate and up to 30% longer life on mild carbon steel welds
- Semi-open coat retards loading on aluminum



		TR			TS		
Diameter	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
2"	P36 Grit		8.36	6.66		9.33	7.46
2"	P40 Grit		8.36	6.66		9.33	7.46
2"	P60 Grit		8.36	6.66		9.33	7.46
2"	P80 Grit		8.36	6.66		9.33	7.46
2"	P120 Grit	D0290169	8.36	6.66	D0290179	9.33	7.46

24124

**BobCat® Quick Change 2 & 3" Abrasive Flap Discs - Zirconia**

- BobCat flap discs outperform conventional quick change discs at least 19 to 1
- Ideal for grinding, deburring and blending steel and stainless metal fabrication
- Applications include aggressive and rapid stock removal
- Angled style for maximum contact
- Flat style for smoother grinding and enhanced conformability



Diameter - 2", Mount - R							
		Type 29			Type 27		
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	30,000		5.81	5.05		5.81	5.05
40	30,000		5.81	5.05		5.81	5.05
60	30,000		5.81	5.05		5.81	5.05
80	30,000		5.81	5.05		5.81	5.05
120	30,000	50950	5.81	5.05	50960	5.81	5.05

Diameter - 3" Mount - S							
		Type 29			Type 27		
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	20,000		7.51	6.53		7.51	6.53
40	20,000		7.51	6.53		7.51	6.53
60	20,000		7.51	6.53		7.51	6.53
80	20,000	50905	7.51	6.53		7.51	6.53
120	20,000	-	-	-	50916	7.51	6.53

Diameter - 3", Mount - R							
		Type 29			Type 27		
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	20,000		7.51	6.53		7.51	6.53
40	20,000		7.51	6.53		7.51	6.53
60	20,000		7.51	6.53		7.51	6.53
80	20,000	50954	7.51	6.53		7.51	6.53
120	20,000	-	-	-	50965	7.51	6.53

Diameter - 2" Mount - S							
		Type 29			Type 27		
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	30,000	-	-	-		5.81	5.05
40	30,000		5.81	5.05		5.81	5.05
60	30,000		5.81	5.05		5.81	5.05
80	30,000	50925	5.81	5.05		5.81	5.05
120	30,000	-	-	-	50936	5.81	5.05

Drive Mandrel 07766

773

**Single Point Diamond Dressing Tools****Features:**

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



Model No	Shank Diameter	Shank Length	Maximum Compatible Wheel Diameter	Order No.	Regular Price	SALE
BC2M6	3/8"	2"	7"	BC95000	82.88	66.29
BC2M7	7/16"	2"	7"	BC95001	82.88	66.29
BC3M6	3/8"	2"	10"	BC95002	92.10	73.69
BC3M7	7/16"	2"	10"	BC95003	92.10	73.69
BC5M6	3/8"	2"	14"	BC95004	109.71	87.80
BC5M7	7/16"	2"	14"	BC95005	109.71	87.80

24162

**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



Product Name	Order No.	Regular Price	SALE
3" x 1" Brake Controlled Truing Device Replacement Wheel	3100	21.07	14.01
For Use On: Diamond & Carbon Wheels - Brake Truing Device	DT100	441.47	353.21

658

**6" Diamond Cut Off Wheel**

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



Grit	Order No.	Regular Price	SALE
100	1807829	226.36	177.26

30943

**Surface Conditioning Quick Change Discs**

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



		Surface Conditioning		
Diameter	Grade	Order No.	Regular Price	SALE
1-1/2"	CRS		1.41	1.16
2"	CRS		1.83	1.57
2"	MED		1.77	1.48
2"	VFN		1.77	1.48
3"	CRS		3.36	2.87
3"	MED		3.18	2.66
3"	VFN	10549	3.18	2.66

2" Holder Roll-On -64922

- Turn-On -64198

10738

3" Holder Roll-On -64949

- Turn-On -64113

**EZ Red Heavy Duty Strip Wheels**

- Cleans welds and removes rust, paints, sealants and other clogging materials
- Can be used on stainless steel, steel, aluminum, titanium, non-ferrous metals, fiberglass, stone and wood
- Red: faster removal
- Black: cleans, and can provide a satin finish



Diameter	Color	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
4 1/2"	Black	11000	10	59200	12.51	11.22
4 1/2"	Red	11000	10	59204	13.88	12.47
4 1/2"	Black	11000	10	59201	14.62	13.15
4 1/2"	Red	11000	10	59205	16.07	14.43
7"	Black	7000	10	59203	21.73	19.52

213

PRM PRO Carbons

Pointed or Jointed

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



Pointed				
Diameter	Length	Order No.	Regular Price	SALE
3/16"	12"	22033003	18.20	15.50
1/4"	12"	22043003	21.59	18.35
5/16"	12"	22053003	26.69	22.70
3/8"	12"	22063003	33.97	28.90

Jointed				
Diameter	Length	Order No.	Regular Price	SALE
3/8"	17"	24064003	219.09	186.20
1/2"	17"	24084003	275.12	233.85

2950

PRM PRO Tungsten Electrodes

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



Pure

2% Ceriated

1.5% Lanthanated

E3

Size	Pure			2% Ceriated			1.5% Lanthanated			E3		
	Order No.	Reg. Price	SALE	Order No.	Reg. Price	SALE	Order No.	Reg. Price	SALE	Order No.	Reg. Price	SALE
1/16"	1167G	2012	17.10	1167GC2	22.11	18.80	1167GL	21.05	17.90	1167000	18.52	15.70
3/32"	3327G	39.92	33.90	3327GC2	44.18	37.98	3327GL	42.14	35.80	3327000	36.35	30.90
1/8"	187G	67.98	57.80	187GC2	75.00	63.75	187GL	71.44	60.70	187000	62.74	53.30

2910

PRM PRO 20 Series Tig Torch Packages

- 250 Amp Water-cooled



Type	Length	Includes		Order No.	Regular Price	SALE
Torch Package	12.5'	Gas & Water Hose, Power Cable, Torch, Handle, Back Cap		2012R	146.92	124.90
Torch Package	25'	Gas & Water Hose, Power Cable, Torch, Handle, Back Cap		2025	109.22	92.80
Torch Package	25'	Gas & Water Hose, Power Cable, Torch, Handle, Back Cap		2025R	208.38	177.10
Flex Torch Package	25'	Gas & Water Hose, Power Cable, Torch, Handle, Back Cap		20F25R	209.13	177.80

2903

PRM PRO 26 Series Tig Torch Packages

- 200 Amp Air-cooled



Type	Length	Includes		Order No.	Regular Price	SALE
Flex Torch Package	25'	Power Cable, Torch, Handle, Back Cap		26FV252	215.68	183.30
Flex Torch Package	25'	Power Cable, Torch, Handle, Back Cap		26FV25R	201.77	171.50

2904

Fiberglass Welding Blankets

Toughguard 18 oz. Fiberglass

- Resists heat up to 1000°
- Effective protection in light to medium duty applications
- Blankets are grommeted on all four sides
- Also used as a heat stress blanket in heat treating applications



Width	Length	Color	Order No.	Regular Price	SALE
-	6 feet	Tan	37246	49.50	39.59
-	8 feet	Tan	37286	50.74	40.55
-	10 feet	Tan	37208	99.72	79.75

3135

Goldenglass 28 oz. Fiberglass Blankets

- Coated fiberglass resists heat to 1000°
- Heavy duty fiberglass has an acrylic coating on both sides for increased burn through protection
- Blankets are grommeted on all four sides



Width	Length	Color	Order No.	Regular Price	SALE
-	10 feet	Yellow	37408	180.62	144.50
-	8 feet	Yellow	37486	100.47	80.36

3138

Protect-O-Screens

- Protects workers from hazards of welding sparks, spatter and UV flash
- Can be used individually or joined together to form multiple panel enclosures
- Features sturdy 18 gauge steel frame and your choice of 12 oz. olive duck or orange transparent vinyl curtain
- Other material and sizes are available
- UPS dimensional weight shipping rates apply



Width	Height	Color	Order No.	Regular Price	SALE
6 feet	6 feet	Olive Drab Cotton	50166	251.73	201.38
6 feet	8 feet	Olive	50186	304.20	243.41
6 feet	6 feet	Orange	53866	226.31	181.05
6 feet	8 feet	Orange	53886	273.63	218.86

3141

**ADF Helmet 600S**

- Cool Bloodshot Eye design
- Absorbent, oversized sweatband
- Solar powered to eliminate the need for batteries
- ANSI .1, CSA Z94.3 and CE 9 compliant
- Polycarbonate construction



Type	Lens Type	View Width	View Height	Color	Order No.	Regular Price	SALE
Auto Darkening Helmet	Variable/Auto Darkening	3.82"	1-3/4"	Red/Gray	K31901	141.60	133.13

28749

**Fire Resistant Black Welding Sleeves**

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



Color	Material	Order No.	Regular Price	SALE
Black	Cotton	KH813	13.58	12.95

29101

**Welding Helmets**

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



Order No.	Regular Price	SALE
41279	222.16	155.49

25291

**Magnetic Soldering Clamp**

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



Order No.	Regular Price	SALE
55000	22.70	16.99

2763

**301AR/CD Shielding Gas Kit**

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



Fuel Type	Flow Capacity	Max Inlet PSIG	Outlet Connection	ManufacturerNo	Order No.	Regular Price	SALE
Ar + Mixes	60	3000	5/8-18 RH (F)	4400229	10100	185.99	167.42

2651

**6011 Mild Steel Electrodes**

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



Diameter	Length	Container Type	ManufacturerNo	Order No.	Regular Price	SALE
3/32"	12"	5 Lb Package	6011505	20100	5.81	5.23
3/32"	12"	10 Lb Package	60115010	20130	5.58	5.06
1/8"	14"	5 Lb Package	6011605	20110	5.58	5.06
1/8"	14"	10 Lb Package	60116010	20140	5.11	4.60
5/32"	12"	5 Lb Package	6011705	20120	5.58	5.06
5/32"	14"	10 Lb Package	60117010	20150	5.11	4.60

2652

**MIG 308L**

- Similar usage as 308, but the 0.03% maximum carbon content increases resistance to intergranular corrosion
- Most frequently used for base metals of similar composition. The dual grade division ensures the max carbon content is 0.03 % increase resistance to inter-granular corrosion.
- Sold by the pound



Wire Size	ManufacturerNo	Order No.	Regular Price	SALE
0.0300"	0308LE2	20290	18.93	17.07
0.0350"	0308LF2	20300	17.72	15.95
0.0350"	0308LF5	20310	16.48	14.81

2666

POWER TOOLS

DEWALT 14" Abrasive Chop Saw with Quick Change™ Blade Change System

- Powerful 15 Amp/5.5 HP (maximum motor HP)
- QUIK-CHANGE™ blade change system providing the ability to change wheels without a wrench
- Exclusive QUIK-FENCE™ tool-free, 45° adjustable fence allows for fast and accurate angle cuts without using a wrench
- Quick-lock vise allows for fast clamping on different size materials
- Soft start extends gear and motor life by reducing start up torque
- Ergonomically designed "D" handle provides a more comfortable hand position, reducing fatigue
- Extra wide solid steel base provides increased stability when cutting longer material. Four pre-drilled holes in the base allow easy bolt down to any work bench
- Heavy-duty lock down pin allows head of the saw to be locked in the carrying position
- Large cutting capacity (5" round / 4-1/2" x 6-1/2" rectangle) provides the ability to cut a wide variety of materials



Order No.	Regular Price	SALE
D28715	300.38	270.51

2078

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

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



Drill Capacity	Maximum RPM	Torque	Clutch Settings	Model No	Order No.	Regular Price	SALE
1/2"	535	535 inch/lbs	22	DCD985M2	DCD985M2	426.72	383.95

23063

PRM PRO Chicago Pneumatic Precision Air Grinders with 1/8" Collet

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



BrandName	Maximum RPM	Order No.	Regular Price	SALE
Chicago Pneumatic	60,000	CP9104QB	276.00	183.93
PRM Pro	54,000	TG11A	111.90	78.30

2316

Dynaflex® II Abrasive Belt Machine For 18" Long Belts

Model 40320

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

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



Belt Length	Belt Width	Maximum RPM	Horsepower	Air Inlet Size	Order No.	Regular Price	SALE
18"	3/4"	20,000	0.50 hp	1/4" NPT	40320	834.11	667.30

2166

'The Original' Dynaflex® Abrasive Belt Machine

Model 14000

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



Belt Length	Belt Width	Maximum RPM	Horsepower	Air Inlet Size	Order No.	Regular Price	SALE
24"	1/2"	20,000	0.50 hp	1/4" NPT	14000	847.90	678.32

2167



Prices effective **October 1** through **December 31 2025**

DeWALT

metabo *Milwaukee*

4-1/2", 5" & 6" Angle Grinders



4 1/2"							
Brand-Name	Features	Maximum RPM	Spindle Size	Amperage	Order No.	Regular Price	SALE
DeWALT	Dust ejection system, paddle switch with lock on button, auto-off brushes, 2 position side handle, one-touch guard	11,000	5/8"-11	11 A	PD-20DWE402	151.52	136.40
DeWALT	2-Position removable side handle	12,000	5/8"-11	9 A	PD-20DWE4120	134.67	121.22
DeWALT	Hex Wrench, Quick-Change™ Wheel Release, Slim ergonomic body design, One-Touch™ guard, Low profile, jam-pot gear, 2-position removable side handle, Depressed center wheel	12,000	5/8"-11	7 A	PD-20DWE4011	115.00	103.59
DeWALT	One-Touch™ Guard, Low profile, jam-pot gear case, 2-position removable side handle, Quick-Change™ wheel release, Wrench	12,000	5/8"-11	9 A	DW-	134.67	121.22
Milwaukee	3-Position handle, paddle switch, spindle lock, all ball and roller bearing aluminum gear housing, double insulated 8 cord	10,000	5/8"-11	8.5 A	61486	206.74	165.39
DeWALT	Low profile gear case allows for access into tighter spaces. One-Touch Guard allows for 360 degree rotation of the guard with a single action. Matching wheel flanges allow the use of common accessories. Quick-Change wheel release provides easier and quicker wheel removal without the need for a wrench. No Lock-On Paddle switch lock-off provides the user protection from accidental start up.	11,000	5/8"-11	11 A	DW-	151.52	136.40

4 1/2" / 5"							
Brand-Name	Features	Maximum RPM	Spindle Size	Amperage	Order No.	Regular Price	SALE
DeWALT	Anti-Rotation E-CLUTCH® System activates in less than a tenth of a second when a pinch/stall is detected, shutting down the motor. Power Loss Reset® prevents accidental restarts following a power disruption when the tool is left in the "on" position. Dust Ejection System provides durability by ejecting damaging dust and debris particles that enter through the air intake vents.	11,000	5/8"-11	13 A	PD-20DWE43115	265.82	238.64
DeWALT	Dust Ejection System, E-Clutch™, Power Loss Reset®, Side handle, Inner and Outer Flange, Type27 Guard	11,000	5/8"-11	13 A	PD-20DWE43114	252.56	227.65
DeWALT	Dust Ejection System, E-Clutch™, Power Loss Reset®, Side handle, Inner and Outer Flange, Type27 Guard	11,000	5/8"-11	13 A	DW-	252.56	227.65
DeWALT	Dust Ejection System, Side handle, Inner and Outer Flanges, Type 27 Guard	9,000	5/8"-11	13 A	PD-20DWE43113	244.22	219.94

5" / 6"							
Brand-Name	Features	Maximum RPM	Spindle Size	Amperage	Order No.	Regular Price	SALE
DeWALT	Dual Clutch Protection, Quick-Change™ wheel release, One-piece brush arm, Power-Off Advanced Overload Protection, Vibration-reducing side handle, Auto-off brushes, No Lock on paddle switch, Dust ejection system, Dual abrasion protection, E-Clutch, Power-Loss Reset, Low profile, jam-pot gear case, Keyless adjustable guard	9,000	5/8"-11	13 A	D28144N	301.88	271.64

6"							
Brand-Name	Features	Maximum RPM	Spindle Size	Amperage	Order No.	Regular Price	SALE
DeWALT	Power Loss Reset®, Dust Ejection System, Grinder, Side handle, Inner and outer flange, 6" Type27 Guard, 6" Type 1 Guard, 5" Type 27 Guard	9,000	5/8"-11	13 A	PD-20DWE43066	299.27	269.45
Metabo	Metabo Long life motor, M-Quick system for tool free disc change, S-automatic torque limiting clutch, restart protection	9,600	5/8"-11	13.5 A	WE15150	497.97	373.48
Metabo	Metabo Long life motor, Tacho-Constamatic full wave electronics, tool free disc change, electronic overload protection	9,600	5/8"-11	8 A	WEF9125	478.74	359.04
Metabo	Metabo Long life motor, Tacho-Constamatic full wave electronics, tool free disc change, electronic overload protection	9,600	5/8"-11	8 A	WEPF9125	478.74	359.03

1938

POWER TOOLS



Air Powered Grinders

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



CP872



CP875

Type	Features and Benefits	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Economy Die Grinder	22,000 RPM, 1/4" and 6mm collet, lock-off throttle, speed and power, precision control and safety, excellent tool for general high speed polishing and grinding	22,000	13 CFM	1/4" NPT	PF-50CP872	173.85	118.86
Right Angle	Mini angle grinder compact, lightweight design, 90° angle head allows flexibility in confined areas	22,500	11 CFM	1/4" NPT	PF-50CP875	170.62	113.58

28772



1.3 HP Right Angle Grinder

4-1/2" Diameter, 12,000 RPM

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

Specifications:

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



Order No.	Regular Price	SALE
52632	993.10	794.49

2149



1/4 hp. Rt. Angle Grinder 301B

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



Type	Type of Power	Collet/Chuck	Handle Type	Maximum RPM	Exhaust Type	Order No.	Regular Price	SALE
Air Die Grinder	Air	1/4"	Right Angle	21,000	Rear	301B	145.23	107.32

30868



1/3 hp. Rt. Angle Grinder 302B

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



Type	Type of Power	Collet/Chuck	Handle Type	Maximum RPM	Exhaust Type	Order No.	Regular Price	SALE
Air Die Grinder	Air	1/4"	Right Angle	20,000	Rear	302B	243.08	192.04

30889

PRM PRO Air Die Grinders

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



Type	Features and Benefits	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Right Angle	Lever throttle for positive speed control, complete with collet wrenches	20,000	4 CFM	1/4" NPT	SM522	68.39	51.30
Straight	All ball bearing construction, lever throttle for positive speed control, complete with collet wrenches	22,000	4 CFM	1/4" NPT	DG1	40.38	30.30
Straight	Extended heavy duty spindle, lever type throttle	22,000	16 CFM	1/4" NPT	RG38A	132.25	99.15

22669



5" Dynorbital-Spirit™ Non Vacuum Random Orbital Sander

Model 59020

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

Specifications:

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



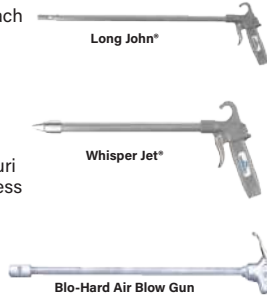
Disc Diameter	Type of Power	Air Inlet Size	Maximum RPM	Horsepower	Model No	Order No.	Regular Price	SALE
5"	Pneumatic	1/4" NPT	12,000	0.25 hp	59020	59020	246.17	196.90

2180



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
- UPS 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



Extension Size	Long John®			Whisper Jet®			Blo-Hard Air Blow Gun		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
6"	75LJ6	37.04	33.35	80LJ6	40.22	36.24	900LJ6	30.69	27.58
12"	75LJ12	39.16	35.28	80LJ12	42.33	38.06	900LJ12	32.81	29.52
18"	75LJ18	41.27	37.19	80LJ18	44.45	39.98	900LJ18	34.93	31.47
24"	75LJ24	43.39	39.01	80LJ24	46.57	41.92	900LJ24	37.04	33.30
36"	75LJ36	47.63	42.87	80LJ36	50.80	45.76	900LJ36	41.27	37.17
48"	75LJ48	51.86	46.71	80LJ48	55.03	49.50	900LJ48	45.51	40.95
60"	75LJ60	56.09	50.44	80LJ60	59.27	53.34	900LJ60	49.74	44.74
72"	75LJ72	60.33	54.30	80LJ72	63.50	57.19	900LJ72	53.97	48.63

2218



Safety and Blind Hole Air Guns

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



Tip Type	Features	Model No	Order No.	Regular Price	SALE
Blind Hole	Delivers a high velocity jet of air into deep crevices & blind holes (down to 1/8" dia.) to flush out chips and dirt	74BH006Z	74BH	39.69	35.76
Jet Guard	Safety air shield protects workers from hazardous chip fly-back	74SK	74SK	38.10	34.30
Conical	Unique nozzle design reduces noise levels 6-20 dB less than conventional air guns	80WJ	80WJ	34.93	31.48

23269



1HP 1/2 Pistol Grip Drill

- Design for high volume industrial production
- Advanced motor and clutch holds-up in the toughest working environments
- Chuck capacity of 1/2-inch and has free speed of 2600-rpm
- Ergonomic Rubber Grip offers increased operator comfort
- Power: 0.4 hp (0.30kW) - 1 hp (0.75kW)
- Speed Range 300 rpm - 23,000 rpm
- Chuck Capacity: 1/4" (6mm) - 1/2" (13mm)



Type	Average Air Consumption(New)	Drill Capacity	Chuck Style	Maximum RPM	Exhaust Type	Air Inlet Size	Chuck Size	ManufacturerNo	Order No.	Regular Price	SALE
Non-Reversing Drill	30 CFM	1/2"	Keyed	2,600	Handle	1/4" NPT	1/2"	SDR10P26N4	17380	49713	397.70

30609

PRM PRO Pneumatic Cut Off Tool & Right Angle Grinder Kit

Kit Includes:

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



Order No.	Regular Price	SALE
2060	114.87	86.15

1960

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	CTK150	217.60	174.06

30746

CRESCENT 180 Piece Mechanic's Tool Set

- Newly designed 72T Crescent quick release ratchet
- Carefully selected assortment of hand tools for most industrial, mechanical, and consumer applications. NewLine-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) 180 Pc 1/4 and 3/8 Dr 6 Pt SAE/Metric Professional Tool Set, 2 Ratchets 3 Extensions Adapter 51 Standard Sockets 31 Deep Sockets Spark Plug Socket 12 Combination Wrenches 24 Hex Keys 2 Pliers Adjustable Wrench 4 Screwdrivers Magnetic Bit Driver with 46 Bits Bit Adapter	CTK180	CTK180	301.30	241.06

30732

APEX Hex Drive Bit Holder with Quick Release

- Proprietary steel and heat treat process yields greater strength and longer bit life
- Cutting-edge machining process results in tighter tolerances and superior product consistency
- Better and more consistent fit to fasteners resulting to better torque transfer
- Power bits are best used with quick-release (QR series) chucks



Overall Length	Order No.	Regular Price	SALE
2 29/32"	60950	39.40	35.44

6458

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
	1 15/16"	49-10IPX	60465	11.95	10.74
	3 1/2"	49-B-10IPX	60510	15.12	13.61
	1 15/16"	49-15IPX	60470	11.95	10.74
	2 3/4"	49-A-15IPX	60425	12.90	11.61
	3 1/2"	49-B-15IPX	60515	15.12	13.61
	1 15/16"	49-20IPX	60475	11.95	10.74
	2 3/4"	49-A-20IPX	60430	12.90	11.61
	3 1/2"	49-B-20IPX	60520	15.12	13.61
	1 15/16"	49-25IPX	60480	11.95	10.74
	3 1/2"	49-B-25IPX	60525	15.12	13.61
	1 15/16"	49-27IPX	60485	11.95	10.74
	1 15/16"	49-30IPX	60495	11.95	10.74
	2 3/4"	49-A-30IPX	60445	12.90	11.61
	3 1/2"	49-B-30IPX	60535	15.12	13.61
	1 15/16"	49-40IPX	60415	11.95	10.74

6483

JACOBS Heavy Duty Plain Bearing Chucks

Taper Mounted

- Jaws center ground for absolute straightness and alignment
- One piece sleeve eliminates crack between driving teeth, often found in other designs
- Through hardened sleeve teeth, plus hardened nose and keyholes provide outstanding wear resistance
- Each chuck 100% inspected for performance and precision
- T.I.R .004" maximum at half capacity
- Fluted sleeve standard except Model 34-33C, which is smooth and ground
- (2) Equipped with positive drive slot
- (3) Equipped with pin type positive drive
- (4) Equipped with locking collar - 1-1/16-20 thread, smooth sleeve



Model No	Minimum Capacity	Maximum Capacity	Mount Type	Key Style	Order No.	Regular Price	SALE
0	0.035"	5/32"	Tapered	KO	6200	216.47	184.98
34-02	0.040"	1/2"	Tapered	K3	14442	267.84	228.08
34-06	0.040"	1/2"	Tapered	K3	6295	355.69	302.36
34-33	0.040"	1/2"	Tapered	K3	14445	302.77	258.15
3326A	0.080"	1/2"	Threaded	K32	6291	370.21	314.74
34-33C(4)	0.040"	1/2"	Tapered	K3C	14451	279.76	238.68
33	0.080"	1/2"	Tapered	K32	6279	342.63	291.74
3A	1/8"	5/8"	Tapered	K3	6223	426.49	362.50
33KD(3)	0.080"	1/2"	Tapered	K32	6281	324.73	277.59
3KD(2)	1/8"	5/8"	Tapered	K3	6228	567.03	482.77
3PD(3)	1/8"	5/8"	Tapered	K3	6230	662.70	564.13
36	0.180"	0.800"	Tapered	K4	6309	538.22	458.01
36KD(2)	0.180"	0.800"	Tapered	K4	14865	515.74	438.55

22155

JACOBS Ball Bearing Super Chucks

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



Model No	Maximum Capacity	Mount Type	Key Style	Minimum Capacity	Order No.	Regular Price	SALE
8 1/2N	1/4"	Tapered	K30	0.040"	30209	350.63	298.82
11N	3/8"	Tapered	K32	0.040"	30215	390.73	332.42
14N	1/2"	Tapered	K3	0.040"	30221	546.24	447.39
16N	5/8"	Tapered	K4	1/8"	30227	627.00	530.52
18N	3/4"	Tapered	K4	1/8"	30233	943.01	802.89
20N	1"	Tapered	K5	3/8"	30239	1269.85	1078.81

23491

Crescent NICHOLSON Mill & Flat Hand Files - Bastard Cut

- Bastard file - a coarse file designed for fast removal of stock material

**Flat Files:**

- Excellent for "hogging" or rapid stock removal
- Double cut on both sides, single cut on the edges and taper toward the point in width

Mill Files:

- Excellent for a wide range of applications such as sharpening, draw filing, lathe work and general shop use
- Single cut on the sides and edges, and taper towards the point in width

Overall Length	Order No.	Flat		Order No.	Mill	
		Regular Price	SALE		Regular Price	SALE
4"		12.70	10.80		9.30	7.86
6"		13.54	11.53		9.19	7.81
8"		16.86	14.36		11.04	9.38
10"		20.49	17.41		14.35	12.21
12"		28.51	24.22		23.40	19.92
14"	03863	39.83	33.86	08832	31.06	26.43

24057

Lufkin COMMAND CONTROL SERIES™**YELLOW CLAD TAPE MEASURE**

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



Blade Length	Blade Width	Graduation	Order No.	Regular Price	SALE
16'	1-3/16"	1/16"		20.47	13.67
25'	1-3/16"	1/16"		25.20	18.71
25'	1-3/16"	1/10ths, 1/100ths, 1/16"		28.34	20.83
8 m, 26'	1-3/16"	1/16"/MM		25.20	19.65
30'	1-3/16"	1/16"		33.34	25.19
35'	1-3/16"	1/16"	L1035C02	31.49	20.20

30815

Lufkin Shockforce Tapes

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



Measuring Tape					
Blade Length	Blade Width	Blade Color	Case Color	Order No.	Regular Price SALE
8 m, 26'	1-3/16"	Black	Black	L1025CB02	28.34 20.83

Shockforce Nite Eye Dual Sided Tape Measure					
Blade Length	Blade Width	Blade Color	Case Color	Order No.	Regular Price SALE
16'	1-3/16 in	Black Blade with Hi-Viz Green Markings	Black	L1116B02	28.99 26.21
25'	1-3/16 in	Black Blade with Hi-Viz Green Markings	Black	L1125B02	36.24 28.10

Shockforce Dual Sided Tape Measure					
Blade Length	Blade Width	Blade Color	Case Color	Order No.	Regular Price SALE
8 m	1-3/16 in	Black Blade with Hi-Viz Green Markings	Black	L1125C-	40.95 37.57
5 m	1-3/16 in	Black Blade with Hi-Viz Green Markings	Black	L1116C-	32.76 26.28
16'	1-3/16 in	Yellow Blade with Black Markings	Black		32.76 27.37
5 m	1-3/16 in	Yellow Blade with Black Markings	Black	L	32.76 29.62
25'	1-3/16 in	Yellow Blade with Black Markings	Black		36.24 28.10
35'	1-3/16 in	Yellow Blade with Black Markings	Black		52.42 39.44
10 m	1-3/16 in	Yellow Blade with Black Markings	Black		52.42 40.54
8 m	1-3/16 in	Yellow Blade with Black Markings	Black	L1125CME02	40.95 36.15

23742

Crescent NICHOLSON Mill & Knife Hand Files - Smooth & Bastard Styles

- Knife** files are for use on slots, keyways and acute angles. Knife files are double cut on the "knife edge" with a safe (uncut) back and taper toward the point in width and thickness.
- Mill** files are excellent for a wide range of applications such as sharpening, draw filing, lathe work and general shop use. Mill files are single cut on the sides and edges, and taper towards the point in width.
- Bastard cut, a coarse file designed for fast removal of stock material
- Smooth cut, a fine file designed for making an almost smooth surface



Overall Length	Order No.	Bastard		Order No.	Smooth	
		Regular Price	SALE		Regular Price	SALE
4"		24.84	21.08		26.07	22.13
6"		28.40	24.16		35.00	29.78
8"		33.84	28.73		38.08	32.40
10"	06992	39.97	33.97	07054	45.58	38.74

24059

Crescent WISS 8" Bent Trimmer Industrial Shears

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



Order No.	Regular Price	SALE
428	45.35	38.59

8045

Crescent H.K. PORTER Strap Cutters

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



Length	Flat Cut	Round Cut	Order No.	Regular Price	SALE
12"	1 1/4" x .050	-	1290G	216.98	184.47

6697

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"		30.73	26.14
Right	1 3/8"	9 3/4"		30.73	26.14
Left/Right	1 1/2"	9 3/4"	M3R	30.73	26.14

25565

HAND TOOLS

PRM PRO Torx® Long Arm L Key

- Exact fit machined tips
- S2 modified steel through hardness for maximum durability
- Lifetime warranty against mfg defect

Torx Size	Blade Length	Order No.	Regular Price	SALE
T6	3.15"	10206	2.20	1.65
T7	3.15"	10207	2.20	1.65
T8	3.15"	10208	2.01	1.55
T10	3.4"	10210	1.63	1.18
T15	3.5"	10215	1.70	1.23
T20	3.7"	10220	1.79	1.39
T25	4"	10225	1.92	1.45

6955

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"	468	26.00	20.80
5/8"	16"	469	33.44	26.74
3/4"	20"	471	42.16	33.76
3/4"	24"	472	48.89	39.07
7/8"	30"	473	67.06	53.66

6872

PRM PRO Pinch Bars

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

Overall Length	Order No.	Regular Price	SALE
14"	5031	9.90	7.38
18"	7794	11.00	8.25
20"	5032	12.93	9.67
24"	7795	14.31	10.70

6947

OLFA® Safety Carton Cutter

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

Order No.	Regular Price	SALE
40062	13.60	10.23

24223

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

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

Color	Order No.	Regular Price	SALE
White	96960	4.28	3.38
Yellow	96961	4.28	3.38
Red	96962	4.28	3.38
Black	96963	4.28	3.38
Orange	96964	4.28	3.38
Blue	96965	4.28	3.38
Green	96966	4.28	3.38
Silver	96967	4.39	3.49

23816

Markal Valve Action® Liquid Paint Marker

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

Color	Order No.	Regular Price	SALE
White	96820	3.52	2.83
Yellow	96821	3.52	2.83
Red	96822	3.52	2.83
Black	96823	3.52	2.83
Orange	96824	3.52	2.83
Blue	96825	3.52	2.83
Green	96826	3.52	2.83

23817

Markal B® Paintstik® Multi-Purpose Permanent Solid Paint Crayon

- Real paint for long-lasting, highly visible marks
- Superior marking on rough, rusty, or dirty surfaces
- Solid paint marker eliminates replacement tips, sharpening or priming, increasing productivity

Color	Order No.	Regular Price	SALE
White	80220	1.70	1.41
Yellow	80221	1.70	1.41
Red	80222	1.70	1.41
Black	80223	1.70	1.41
Orange	80224	1.70	1.41
Blue	80225	1.70	1.41
Green	80226	1.70	1.41

8478

CHAN NEL LOCK 3 Pc. Plier Sets**Tongue & Groove Set Includes:**

- 6-1/2" Tongue & Groove (426)
- 9-1/2" Tongue & Groove (420)
- 12" Tongue & Groove (440)

Combo Set Includes:

- 7-1/2" Long Nose Plier (3017)
- 7" Cutting Plier (337)
- 10" Tongue & Groove (430)



GS4

GS3

Type	Order No.	Regular Price	SALE
Tongue and Groove Pliers Set	GS3	65.46	52.45
Combo Pliers Set	GS4	81.42	63.78

22933

LANG 12 Pc. Combination Int/Ext Retaining Ring Pliers Set

- Includes 12 fixed tip pliers sizes .038, .047, .070, .090 in 0°, 45°, and 90° angles
- Pliers are convertible for use on internal and external snap rings with cushioned grip handles
- They have a knurled center screw with a spring for easy changing and secure hold



Order No.	Regular Price	SALE
3495	183.11	146.48

6819

MAYHEW Punch & Chisel Sets

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

Punch & Chisel Set - 14RC

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

All Sets Feature:

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



Number of Pieces	Type	Sizes Included	Case	Model No	Order No.	Regular Price	SALE
5	Pin Punch Set	1/8 x 4-3/4, 5/32 x 5, 3/16 x 5-1/4, 1/4 x 5-3/4, 5/16 x 6	Vinyl Pouch	-	KS-5045RC	43.42	34.78
6	Chisel Set	1/4" x 5", 5/16" x 5", 3/8" x 5 1/2"; 1/2" x 6"; 5/8" x 6 1/2"; 3/4" x 7"	Vinyl Pouch	60560	KS-5015RC	76.15	60.89
14	Punch & Chisel Set	1/4" x 5"; 3/8" x 5 1/2"; 1/2" x 6"; 5/8" x 6 1/2"; 3/4" x 7"	Vinyl Pouch	14RC	KS-5014RC	150.36	120.27

30676

PROTO 38 Pc. Insert - Power Bit Set

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



Model No	Order No.	Regular Price	SALE
J61906	50865	174.03	147.93

7155

SPELLWACO Transfer Punch Set**with Indexed Stand**

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



Order No.	Regular Price	SALE
317	185.98	158.10

7673

Young Bros. Heavy Duty Combination Stamps Sets

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



Character Size	Square Size	Overall Length	Weight	Order No.	Regular Price	SALE
1/32"	1/4"	2 3/8"	2 lbs	00363	249.84	199.91
1/16"	1/4"	2 3/8"	2 lbs	01363	197.66	158.11
3/32"	5/16"	2 1/2"	3 lbs	02363	197.66	158.11
1/8"	5/16"	2 1/2"	3 lbs	03363	197.66	158.11
5/32"	3/8"	2 3/4"	4 lbs	04363	222.52	178.00
3/16"	3/8"	2 3/4"	4 lbs	05363	234.43	187.51
1/4"	7/16"	3"	6 lbs	06363	270.11	216.10
5/16"	1/2"	3"	8 lbs	07363	337.98	270.41
3/8"	9/16"	3 1/8"	11 lbs	08363	388.00	310.41
1/2"	3/4"	3 3/4"	28 lbs	09363	617.55	494.01

8077

GENIUS Triple Pack (Ball & Torx®)

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



Order No.	Regular Price	SALE
14132	64.51	39.95

22811

HAND TOOLS

wiha "MagicRing" L-Key Ball End Drivers

Screw Holding Hex Keys

- 9 Pc. Metric Set: 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0mm
- 13 Pc. Inch Set: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"



66991

66990

Number of Pieces	Order No.	Regular Price	SALE
9		52.34	39.22
13	66991	64.81	48.64

25513

wiha 11 Pc. Insulated Tool Set

A Must for SAFE Electrical Repair

- 1000 Volt Rated
- (1) - 8" Combination linemans pliers
- (1) - 6-1/2" Long nose pliers
- (1) - 8" Long nose pliers
- (1) - 6-1/2" Diagonal cutters
- (1) - 8" Heavy duty high leverage cutter
- (1) - Canvas tool bag (made in USA)
- 6 Pc. Insulated screwdriver set - phillips & slotted (made in Germany)
- Tested & approved for the following standards: VDE 0680-201, ASTM F1505-01, EN 60900



Order No.	Regular Price	SALE
32977	273.49	205.15

While supplies last

28731

TITAN 60 Lumen LED Mini Flashlight

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



Order No.	Regular Price	SALE
36016	30.56	21.38

While Supplies Last

3179

wiha 1/4" Magnetic Bit Holder with Non-Slip Grip

- 1/4" x 125mm (5")
- Overall length 8.9"
- Safe, non-slip high torque grip
- Holds standard 1/4" insert bits



Order No.	Regular Price	SALE
52650	23.73	17.77

7933

PRM PRO 2" & 3-1/2" Torx® Power Bits

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



Overall Length - 2"				Overall Length - 3 1/4"		
Tip Size	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
T5		1.90	1.38	-	-	-
T6		1.90	1.38		2.44	1.86
T7		1.90	1.38		2.44	1.86
T8		1.63	1.26		2.18	1.66
T9		1.63	1.26		2.18	1.66
T10		1.63	1.26		2.18	1.62
T15		1.63	1.26		2.18	1.62
T20		1.63	1.26		2.18	1.62
T25		1.63	1.26	20195	2.18	1.62
T27		1.63	1.26	-	-	-
T30		1.63	1.26	20200	2.18	1.62
T40	20155	1.63	1.26	-	-	-

28703

WILLIAMS 6 Pc. Phillips® Screwdriver Set

Features:

- Comfort-grip handle with thumb stop allow for added turning power without discomfort or slippage
- Chrome blades prevent corrosion
- Blades are made from special alloy steel
- Vapor-blasted tips grip fasteners and prevent chipping, extending tool life
- Hex bolsters on shafts allow a wrench to be used for extra turning power



Order No.	Regular Price	SALE
100P6PD	90.66	68.04

25003

wiha Slotted & Phillips Individual Insulated Screwdrivers

- Ergo molded insulated cushioned grips, 1000 volt rated
- Each tool individually tested to 10,000 volts for insulation integrity
- Handle & insulation molded on for maximum durability
- Exact fit precision machined tips
- Wiha special CRM-72 tool steel blades hardened & tempered
- All tools made by Wiha Germany



Slotted				
Tip Size	Overall Length	Order No.	Regular Price	SALE
3 mm	204 mm		7.09	5.34
3.5 mm	204 mm		7.56	5.63
4.5 mm	236 mm		9.16	6.90
6.5 mm	268 mm	32039	12.72	9.52

Phillips				
Tip Size	Overall Length	Order No.	Regular Price	SALE
#1	7.5"		8.96	6.70
#2	8.6"		11.12	8.35
#3	10.6"	32103	15.98	11.94

25517

wiha Cushion Grip Screwdrivers 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



Tip Size	Order No.	Regular Price	SALE
T6		6.36	4.76
T7		6.19	4.66
T8		6.19	4.66
T9		6.88	5.14
T10		6.92	5.14
T15		7.46	5.63
T20		7.67	5.73
T25	36280	9.12	6.80

25525



Ratchets

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



Drive Size	Overall Length	Head Style	Handle Type	COO	Order No.	Regular Price	SALE
3/4"	20"	Narrow Pear	Plain	China		196.71	147.49
3/8"	9 3/4"	Narrow Pear	Smooth	USA	B52EHFB	84.20	63.14

7598



Hex, Torx® & Balldriver Socket Sets

- Polished chrome finish on a rail and clips
- Standard, metric and Torx®
- High polished chrome finish
- Bits are provided in black oxide finish
- Lifetime warranty



Drive Size	Set Includes	Type	Order No.	Regular Price	SALE
3/8"	4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm-3/8" Drive - Metric Socket Set	Hex Drive Set	31904	57.58	43.15
1/2"	8 mm-19 mm-1/2" Drive - Metric Hex Bit Socket Set	Hex Drive Set	32904	90.66	68.04
1/4", 3/8", 1/2"	T25, T27, T30, T40, T45, T47, T50 Torx Bits	Torx Set	31912	72.41	54.26
1/4", 3/8", 1/2"	T40, T45, T50, T55, T60-1/2" Drive - Socket Drive Torx Bit Set	Torx Set	32908	73.04	54.78

22450



72 Pc. Tools Bits

Set

Features:

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



Set Includes	Order No.	Regular Price	SALE
Bits included: Hex, Phillips, Square, Slotted, Pozzi-Drive, Torx®, Nut Drivers, Magnetic Holder, Cones in 1 & 2" lengths	24900	91.94	68.95

24984



Adjustable Spud Wrenches

- Heavy duty drop forged steel
- Chrome plated to resist corrosion
- Precision machined surfaces



Overall Length	Order No.	Regular Price	SALE
10"		40.81	28.60
15"	216	60.58	42.45

7880



12 Pc. Tool Kit

- The Klein Tools 12-Piece Tool Set includes many of the vital tools needed for electrical wiring and connecting work
- Featured in this tool set are four Klein pliers
- These pliers have plastic-dipped handles for comfort and ease of identification
- Also included are four Cushion Grip Screwdrivers
- This set also comes with a handy work belt and a 18-pocket tool pouch



Number of Pieces	Set Includes	Manufacturer No	Order No.	Regular Price	SALE
12	9" Lineman's Pliers (Cat. No. D2139NETP), 8" Angled Head Pliers (Cat. No. D2488), 8" Long Nose Pliers (Cat. No. D2038), 10" Pump Pliers (Cat. No. D50210), 10 to 18 AWG Solid Wire Stripper (Cat. No. 11045), 7.5 M Tape Measure (Cat. No. 86375), #2 Phillips Screwdriver 4" Shank (Cat. No. 6034), 1/4" Cabinet Tip Screwdriver 4" Shank (Cat. No. 6054), #1 Square Recess Tip 4" Shank Screwdriver (Cat. No. 661), #2 Square Screwdriver 4" Shank (Cat. No. 662), 18 Pocket Electrician Tool Pouch (Cat. No. 5719), Web Work Belt (Cat. No. 5705)	92003	10810	390.04	351.03

28990



14 Pc. Journeyman Apprentice Tool Set

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



Number of Pieces	Set Includes	Manufacturer No	Order No.	Regular Price	SALE
14	9" Journeyman Lineman's Pliers w/ Fish Tape Pulling (Cat. No. J2139NETP), 10" Journeyman Pump Pliers (Cat. No. J502-10), 8" Journeyman Long Nose Pliers (Cat. No. J2038), 8" Journeyman Diagonal-Cutters (Cat. No. J20048), Wire Stripper/Cutter (Cat. No. 11055), #1 Phillips Screwdriver, 3" (Cat. No. 603-3), #2 Phillips Screwdriver, 4" (Cat. No. 603-4), #2 Square Screwdriver, 4" (Cat. No. 662), 1/4" Cabinet-Tip Screwdriver 4" (Cat. No. 605-4), 3/16" Cabinet Tip Screwdriver 6" (Cat. No. 601-6), 1/4" Nut Driver (Cat. No. 630-1/4), 5/16" Nut Driver (Cat. No. 630-5/16), 12-Pocket Tool Pouch (Cat. No. 5720), Work Belt (Cat. No. 5705)	92914	10825	405.74	365.16

28992



Lineman's Crimping Pliers

- Crimping die behind hinge for superior leverage crimping of non-insulated connectors, lugs and terminals
- High-leverage design
- Induction hardened
- Smooth action and no handle wobble
- Streamlined design
- Unique handle tempering helps absorb the "snap" when cutting wire
- Precision-hardened plier head
- 5/8" Jaw thickness
- Plastic-dipped handles for comfort and ease of identification



Overall Length	Jaw Width	Jaw Length	Side Cutter	Handle Color	Manufacturer No	Order No.	Regular Price	SALE
9"	1-1/4"	1-19/32"	High Leverage	Yellow	D213-9NE-CR		60.79	54.70
9 1/2"	1-1/4"	1-19/32"	HD High Leverage	Blue/Black	J2000-9NECR		95.19	85.70
9 1/2"	1-1/4"	1-19/32"	High Leverage	Yellow/Black	J213-9NECR	11080	79.58	71.61

28923



8" Ironworker's Diagonal Cutting Pliers

- Includes split ring for tethering plier while working at height
- High leverage design for greater cutting and gripping power
- Induction hardened cutting knives for long life
- Plastic dipped handles
- Tether not included



Overall Length	Jaw Width	Jaw Length	Manufacturer No	Order No.	Regular Price	SALE
9"	1 3/16"	13/16"	D248-9ST	11245	48.37	43.53

28841

MEASURING TOOLS



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	16175	41.16	37.00

30017



Dial Depth Gauge

- 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	52125006	260.00	208.00
Procheck	DG0221BDF †	96.95	72.70

† Black dial face

3749



PREMIUM 0-16"

Origin Mini Depth Gauge

- Absolute encoding technology - memorize
- Origin zero position
- Includes 5 interchangeable depth rods, 1, 2, 3, 4 and 5", to extend the measuring depth to 16"
- 3-Reading functions: inch, metric & fractional
- Use as an indicator or depth gauge
- Resolution: 0.0005" / .01mm / 1/128" indicator
- Travel: 1" Resolution: 0.0005" / .01mm / 1/128"
- Indicator travel: 1"
- 1 Year Warranty



Order No.	Regular Price	SALE
EDG016IMFAB	57.94	43.50

4344



0 - 1" Pocket Depth Gauge

- Same features as above except 1"/25mm range



Order No.	Regular Price	SALE
54225500	38.00	32.30

3756



Depth Gauge

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
54225555	99.00	84.15

3784



Micrometers

- Resolution: .00005"/0.001mm
- Absolute and incremental mode
- Ratchet thimble and spindle lock
- protection against water drops and dust
- Carbide measuring faces
- Ball attachment included
- Supplied with storage case
- Replacement battery: ECR2032
- 1 Year Warranty



Measuring Range	Order No.	Regular Price	SALE
1"-2" / 25.4 mm-50.8 mm	EM12505IP5	128.22	96.20
2"-3" / 50.8 mm-76.2 mm	EM23755IP5	151.82	113.90
0"-1" / 0 mm-25.4 mm	EM01255IP5	113.90	85.40
0"-3" / 0 mm-76.2 mm	EM03755IP5	393.65	295.20

4628



Indicating Micrometers

- Insulated frame, and satin chrome finish
- Micro-fine graduations
- Carbide anvil & spindle
- Plain thimble
- Retracting button conveniently located to operators hand
- Includes case
- 1 Year Warranty



Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
0"	1"	IDM01005	576.12	432.10

4640

Starrett® 436 Series Outside Micrometers

- .0001" Graduation
- Staggered lines and distinct, quick reading figures on sleeve
- Every thousandth numbered
- Black enamel finished frames
- Satin chrome finish on sleeve and thimble
- Spindle lock
- Carbide face



Order No.	Regular Price	SALE
67997	211.00	189.86
67999	214.00	192.61
68005	257.00	231.25
68007	266.00	239.41
68013	319.00	287.11
68015	329.00	296.07

4955

Fowler XTRA-VALUE^{Plus} Electronic Caliper**Features:**

- Range: 0 - 12" / 0 - 150mm
- Accuracy: $\pm 0.0015"/0.02\text{mm}$
- Resolution: $0.0005"/0.01\text{mm}$
- Inch/Metric/Fraction reading: $0.0005"/0.01\text{mm}/1/128"$
- Dust, water and oil resistant to standards making it great for shop environments
- Heavy Duty frame for extra rigidity and wear
- Super large, easy to read 14 x 52mm display
- Combined thumbrest and thumbroll for fine adjustment



Order No.	Regular Price	SALE
541030120	177.00	159.30

29364

Fowler Electronic Calipers

- Stainless steel frame
- Large easy-to-read display
- Resolution: $.0005"/0.01\text{mm}$
- Direct inch/metric conversion
- Absolute/incremental measurement
- 4 way measuring
- Complete in case



Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	541011501	64.00	57.60
0-8" / 0-200 mm	54101200	119.00	107.10
0-12" / 0-300 mm	541013001	146.00	131.40
0-6" / 0-150 mm	541016001	88.00	79.20
0-12" / 0-300 mm	541019001	192.00	172.80

3781

Fowler Internal & External Electronic Caliper Gages

- Robust housing
- Large LCD display
- Reading: $.01"/0.1\text{mm}/64\text{ths}$
- Accuracy: $.01"/0.1\text{mm}/64\text{ths}$
- Spring loaded with locking nut
- Battery: 32 (included)



Type	Measuring Range	Order No.	Regular Price	SALE
Outside Caliper	0 - 6" / 0 - 150 mm	54554630	70.00	59.50
Inside Caliper	0.5-6" / 150 mm	54554730	70.00	59.50

3790

INSIZE[®] Digital Outside Calipers

- Battery 32
- Data output
- Made of stainless steel
- Supplied with certification



Measuring Range	Resolution	Model No	Order No.	Regular Price	SALE
0-6" / 0-150 mm	$0.0005"/0.01\text{mm}$	1108-150	1108150	81.80	73.62
0-8" / 0-200 mm	$0.0005"/0.01\text{mm}$	1108-200	1108200	120.95	108.86
0-12" / 0-300 mm	$0.0005"/0.01\text{mm}$	1108-300	1108300	181.42	163.28

3946

Mitutoyo Dial Calipers

- Smooth sliding
- Shock protection
- Lock screw on bezel
- 6" and 8" main beam coated with titanium nitride
- $\pm .002"$ Accuracy



Measuring Range	Graduation	Range Per Revolution	Dial Face Color	Order No.	Regular Price	SALE
0-12"	0.001"	0.1"	White	505-746	331.00	281.36

30938

PRC[®]CHECK ABSOLUTE 6" ABS Digital Caliper - Tube Type

- Absolute encoding technology - memorize
- Origin zero position
- Single frame depth base
- Data output port
- Protective rating
- Fitted case
- 1 Year Warranty



Order No.	Regular Price	SALE
EC065TTAB	127.69	95.80

4402

PRC[®]CHECK ABSOLUTE Electronic Calipers with Output

- Absolute encoding technology memorize origin zero
- $.0005"/0.01\text{mm}$ Resolution
- Data output port (PC26DCBL5PIN USB/SPC kit optional)
- protection against water drops and dust
- Inside & outside measures
- Hardened stainless steel with precision lapped finish
- Replacement battery: ECR2032
- 1 Year Warranty



Measuring Range	Resolution	Inside Jaw Depth	Order No.	Regular Price	SALE
0-6" / 0-150 mm	$0.0005"/0.01\text{mm}$	1-9/16"	PC20E-C061505AB	95.84	71.90
0-8" / 0-200 mm	$0.0005"/0.01\text{mm}$	1-15/16"	PC20E-C082005AB	132.14	99.10
0-12" / 0-300 mm	$0.0005"/0.01\text{mm}$	2-1/2"	PC20E-C123005AB	177.71	133.30

4430

PRC[®]CHECK Heavy Duty Dial Calipers

- Long range measurement of both outside and inside dimensions
- Covered rack
- Hardened stainless steel rack
- 1 Year Warranty



Measuring Range	Graduation	Inside Jaw Depth	Range Per Revolution	Dial Face Color	Order No.	Regular Price	SALE
18"	0.001"	3-1/8"	0.1"	White	D-	289.84	217.40
24"	0.001"	4"	0.1"	White	D-	318.17	238.60

4616

MEASURING TOOLS

PRC CHECK PREMIUM 6" Electronic Caliper With Wireless Connect

Protection

- Inside & outside measures
- Hardened stainless steel with precision lapped finish
- Measuring Range: 0 - 6 / 0 - 150mm
- Resolution: .0005" / 0.
- Replacement battery: ECR2032
- 1 Year Warranty



Measuring Range	Caliper Type	Order No.	Regular Price	SALE
0-6" / 0-150 mm	Bluetooth	EC061505I6W	130.16	97.60

4637

PRC CHECK PREMIUM Stainless Steel Dial

Calipers

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



Measuring Range	Graduation	Order No.	Regular Price	SALE
0-6"	0.001"	CDC6	82.84	62.13
0-6"	0.001"	CDC6B	82.84	62.13
0-6"	0.001"	CDC6CJ	150.44	112.83
0-6"	0.001"	CDC6EM	87.91	65.93
0-150 mm	0.02 mm	CDC6M1	87.91	65.93
0-6"/0-150mm	0.001" / 0.02 mm	CDC6M2	116.66	87.50
0-8"	0.001"	CDC8	83.41	62.56
0-12"	0.001"	CDC12	120.78	90.59

†PC21CDC6EM Metric on scale only

4812

Starrett® 0 - 6" Dial Calipers

Model No. 3202-6

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



Measuring Range	Model No	Order No.	Regular Price	SALE
0-6"	3202-6	61467	158.00	142.20

4945

FLUKE 179 Digital Multimeter

The Fluke 179 True-rms Digital Multimeter is the industry-standard troubleshooting tool for electrical and electronic systems. This incredibly versatile multimeter makes a perfect front-line troubleshooting tool with an input protection rating of CAT III 1000 V, CAT IV 600 V. The built-in temperature measurement with the included thermocouple, analog bar graph and backlit digital display make it easier to take the measurements you need.

- Manual and automatic ranging
- Display hold and auto hold
- Frequency and capacitance measurements
- Resistance, continuity and diode measurements
- Temperature measurements (179)
- MIN/MAX/Average recording
- Closed case calibration through front panel
- Ergonomic case with integrated protective holster



Order No.	Regular Price	SALE
12850	494.39	469.67

29876

FLUKE 115 True RMS Multimeter with Clamps

With its simple operation, compact design and ease of use, the Fluke 115 True RMS digital multimeter provides the perfect answer for general purpose electrical and electronic test requirements. The Fluke 115 displays True RMS voltage and current readings.

- Large white LED backlight to work in poorly lit areas
- Resistance and continuity
- Frequency and capacitance
- Maximum voltage AC/DC 600 V
- 10 A AC/DC current measurement (20 A overload for 30-seconds maximum)
- Min/Max And Average Recording With Display Hold
- Continuity Capture™ Records Opens/Shorts
- Diode Test



Order No.	Regular Price	SALE
12805	275.00	261.25

29882

FLUKE 77 IV Digital Multimeter

The Fluke 77 IV digital multimeter has the features needed to repair most electrical and electronic problems. This meter is simple to use and has significant improvements over Fluke's original 70 Series with more measurement functions, conformance to the latest safety standards, and a much larger display that's easier to view.

- Large display
- Backlight for work in dim areas
- Ergonomic overmolded housing with integrated probe holders
- Free your hands with the optional TPAK magnetic hanger
- Auto and manual ranging
- Meets Measurement Category 1000 V CAT III and Category IV 600 V safety standards



Order No.	Regular Price	SALE
12910	458.34	435.42

29885

FLUKE 2AC VoltAlert™ Electrical Tester

The Fluke 2AC is the latest addition to the VoltAlert™ AC non-contact voltage tester family. It is designed to be pocket-sized and easy to use. The tip of the pocket-sized tester will glow red when within close proximity of an outlet, terminal strip, or power cord where voltage is present.

- Voltage detection from 90 to 1000 V ac, suitable for a wide range of residential, commercial and industrial needs.
- New! always on, using special low power circuitry to sustain battery life and ensure your 2AC is always ready.
- Innovative 'battery check' button function ensures battery is in good condition*
- Category IV - 1000 V over voltage rated product for best in class user protection
- Expanded range: 90 V AC to 1000 V AC
- Integrated clip design, optimized for pocket storage
- Powered by 2x AAA batteries (included)
- Fluke ruggedness and reliability



Order No.	Regular Price	SALE
12970	44.28	38.97

29890

FLUKE T5-1000 Voltage, Continuity and Current Tester

The T5-1000 is a versatile troubleshooting tool to carry to every job site. Use it to check voltage, continuity, and current with one compact tool. Just select volts, ohms, or current and the tester does the rest.

- Automatically measures volts AC and volts DC with precise digital resolution
- Displays resistance to 1000 Ω
- Easy and accurate OpenJaw™ current measurement
- 1000 V model
- Continuity beeper
- Rugged enough to withstand a 10 ft (3 m) drop
- Auto off mode to conserve battery life
- 2 year warranty



Order No.	Regular Price	SALE
13135	205.99	195.69

29898

FLUKE 117 Electrician's Digital Multimeter with Non-Contact Voltage

The Fluke 117 Electricians Multimeter is a compact, CAT III 600 V, True-rms meter that includes an easy-to-use interface with a bright backlight for darker worksites. It saves you time and enables you to move from job to job more quickly. With a quick turn of the dial you can get measurements for:

- VoltAlert™ technology for non-contact voltage detection
- AutoVolt automatic AC/DC voltage selection
- Compatible with optional magnetic hanger (ToolPak™) for hands free operation
- Measures 10 A (20 A overload for 30-seconds)
- Resistance, continuity, frequency and capacitance
- Low input impedance: helps prevent false readings due to ghost voltage
- Large white LED backlight to work in poorly lit areas
- 3 year warranty



Order No.	Regular Price	SALE
12825	298.69	283.76

29884

KLEIN TOOLS Non-Contact Voltage Tester Pen with Infrared Thermometer

- Voltage Tester designed specifically for HVAC applications
- Volt Pen provides non-contact determination of AC voltage in cables, cords, circuit breakers, switches, outlets and wires, as well as AC voltage in security, entertainment, communications, environmental control, and irrigation systems
- Detects AC voltage from 12 to 1000V with visual and audible indicators
- 4:1 distance-to-spot ratio IR thermometer with user selectable Degrees Fahrenheit or Degrees Celsius from -22 to 482-Degree Fahrenheit (-30 to 250-Degree Celsius)
- Convenient laser pointer to target measurement area for temperature measurement
- Backlit LCD display with 0.1-Degree resolution
- Auto power-off conserves and extends battery life
- Screw-thread battery cap with O-ring ensures dust and water resistance
- Lightweight, compact tool with pocket clip provides easy storage and quick access



ManufacturerNo	Order No.	Regular Price	SALE
NCVT-4IR	16125	75.42	67.87

30014

PRO-CHECK PREMIUM Extended Range Dial Bore Gage Sets

- Extend range 1.4 to 6" (35mm to 160mm) range covers two of the most popular sets
- Easy to read dial face
- Insulated grip
- Carbide anvils and chrome plated handle
- Includes extension holder and fitted case
- 1 Year Warranty



Minimum Measurement	Maximum Measurement	Graduation	Depth	Number of Anvils/Rods	Number of Spacers	Order No.	Regular Price	SALE
1.4"	6"	0.0005"	6"	15	3	DBG14065	204.66	153.50
35 mm	150 mm	0.01 mm	150 mm	16	3	DBG35150M	204.66	153.50

4527

PRO-CHECK ABSOLUTE Extended Range Electronic Bore Gage Sets with Output

Bore Gage Set Features:

- Extended range 1.4 to 6" (35mm to 160mm) range covers two of the most popular sets
- Insulated grip
- Carbide anvils and chrome plated handle
- Includes extension holder and fitted case

Electronic Indicator Features:

- Bar graph and numeric digital display
- Preset with recall
- ABS/INC measurement
- 1 Year Warranty
- Min/max/TIR



Minimum Measurement	Maximum Measurement	Resolution	Depth	Number of Anvils	Number of Spacers	Order No.	Regular Price	SALE
1.4"	6"	0.00005" / 0.001 mm	6"	15	3	PC21EB-G14065EM	370.75	278.10

4428

Mitutoyo 6 Pc. Telescope Gage Set

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



Order No.	Regular Price	SALE
155-903	238.91	203.08

4082

PRO-CHECK 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"	TSG1P12	17.29	12.97
1/2"	3/4"	TSG2P12	17.29	12.97
3/4"	1 1/4"	TSG3P12	17.29	12.97
1 1/4"	2 1/8"	TSG4P12	23.11	17.28
2 1/8"	3 1/2"	TSG5P12	23.09	17.29
3 1/2"	6"	TSG6P12	23.08	17.29

4368

PRO-CHECK 5/16"-6" Telescoping Gage Sets

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



Style	Order No.	Regular Price	SALE
Economy	290100	33.12	23.21
TiN Coated	TGS6PST	75.18	56.43
Premium	TSG6PS	63.66	47.78

4392

PRO-CHECK Combination Square Blades - 4R

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



Blade Size	Order No.	Regular Price	SALE
12"	B124C	21.17	15.90
18"	B184C	26.01	19.50
24"	B244C	36.10	27.10

4507

MEASURING TOOLS

PRC CHECK 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	DS44	26.99	20.20
6"	3-3/4" Base	DS64	42.49	31.90

4556

PRC CHECK 10" Digital Protractor with Inch/ Metric Scale



- 8" (10" on back) Stainless steel rule blade with inch and metric scales
- Reversible reading, hold function and locking feature
- Measure inside and outside angles
- Lightweight, easy to use
- Measuring range: 0-360°, resolution: .05°
- Accuracy: $\pm 0.2^\circ$, repeatability: .05°
- Battery: 3V battery included (replacement part number ECR2032)
- 1 Year Warranty

Resolution	Accuracy	Order No.	Regular Price	SALE
0.05"	+/- .2°	EP10EM	43.41	32.60

4358

STANLEY 9" Extruded Torpedo Level

FEATURES & BENEFITS

- Magnified center block vial for durability and accuracy
- Extruded aluminum body for strength and lightweight
- Over-molded rubber end caps for non-marring leveling and shock resistance



Model No	Order No.	Regular Price	SALE
FMHT42437	4100	18.67	15.70

30067

PRC CHECK Magnetic Dial Protractor with Punch

- Range: 360° (90° x 4)
- Resolution: 1°
- Magnet insert on both inside and bottom of the legs
- Hardened steel center punch
- Mark center of flat, square, or round stock
- 1 Year Warranty



Order No.	Regular Price	SALE
MP490VO	95.06	71.30

4691

PRC CHECK Magnetic Dial Protractor

With Replaceable Center Punch

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



Order No.	Regular Price	SALE
MP490V	190.74	143.09

4692

PRC CHECK Mini Magnetic Level / Protractor

- 2-in-1 Digital level & protractor
- 4-Side measuring with magnets on 3 side
- Aluminum alloy body
- Large clear LCD display, reversible reading
- Measuring range: 4 x 90°, repeatability: 0.1°
- Resolution: .05°, accuracy: $\pm 0.2^\circ$
- Standard 9V battery included
- 1 Year Warranty



Type	Order No.	Regular Price	SALE
360° Electronic Protractor	MLP360	74.16	55.60

4717

PRC CHECK PREMIUM 2 Pc. Combination Square Set

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



Order No.	Regular Price	SALE
CS1224	61.82	46.40

4374

PRC CHECK PREMIUM 4" & 6" Precision Double Square Set

- 4" 4R blade with 2.5" base
- 6" 4R blade with 3.75" base
- Blades: Heavy duty hardened, precision ground satin chrome blade
- Easy to read marked increments
- Made to US Standard Accuracy and Squareness
- Comes with storage case with foam insert
- 1 Year Warranty



Order No.	Regular Price	SALE
DSS46	54.60	40.95

4744

Starrett® Exact® Steel Blade Long Tapes**530 Series • Closed Reel**

- Vinyl clad steel case
- Nylon rollers to reduce blade wear
- Easy to read 1/8" graduations
- Folding ring hook



Blade Width	Blade Length	Model No	Order No.	Regular Price	SALE
3/8"	50'	530-50	65945	65.93	50.15
3/8"	100'	530-100	65946	88.67	67.40

5035

Starrett® Exact® Plus Tape Measures

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



Blade Width	Blade Length	Model No	Order No.	Regular Price	SALE
1.06"	16'	KTXP106-16N	30636	34.71	26.35
1.06"	25'	KTXP106-25N	30638	47.91	36.40
1.06"	30'	KTXP106-30N	30641	57.26	43.46
1.06"	35'	KTXP106-35N	30645	64.56	49.08

5037

Starrett® Measure Stix™ Steel Measuring Tapes**Adhesive Backing**

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



Blade Width	Blade Length	Order No.	Regular Price	SALE
1/2"	4'	63168	13.69	10.44
1/2"	4'	63171	14.61	11.14
1/2"	12'	63170	20.22	15.31
3/4"	6'	63169	16.82	12.82

5086

Starrett® Aluminum Straight Edge Rules

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



Length	Thickness	Model No	Order No.	Regular Price	SALE
24"	0.081"	ASE24	36090	17.77	13.45
36"	0.081"	ASE36	36091	18.39	14.04
48"	0.125"	ASE48	36092	30.97	23.54
60"	0.125"	ASE60	36093	35.39	26.88

4972

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

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



Order No.	Regular Price	SALE
L10XLED9PCS	175.95	132.00

4661

Mitutoyo Radius Gage Sets

Number of Pieces	Minimum Radius	Maximum Radius	Order No.	Regular Price	SALE
8	9/32"	1/2"	186-904	135.00	114.76
10	0.550"	1.000"	186-907	645.00	548.25
17	1/64"	17/64"	186-903	113.00	96.02
25	1/64"	1/2"	186-901	191.00	162.33
26	0.010"	0.500"	186-906	193.00	164.08

4204

TESA

brown & shrope

Valueline Test Indicators**.030" Total Range**

- Dial reading .0005"
- Graduations .0005"
- Black dial face



Dial Face Diameter	Model No	Order No.	Regular Price	SALE
1.26	01889018	47439	138.00	124.15
1.54	01889023	47440	138.00	124.15

3390

Fowler Test Indicators and Sets

- Range: .060" (1.6mm metric)
- Dial reading: 0-15-0 (0-40-0 metric)
- Jeweled movement
- Revolution counter
- Easy-to-read tilted dial
- Automatic reversal
- 210° Swivel arc
- Tungsten carbide point .080" diameter

Set Includes:

- Dial test indicator
- Axial support
- Height gage bar with clamp
- Contact point case, contact point wrench
- Adaptor sleeve
- Complete in shop hardened case



Dial Test Indicator					
Graduation	Dial Face Diameter	Features	Indicator Style	Order No.	Regular Price SALE
0.0005"	1 1/2"	Indicator Only	Horizontal	52562001	216.00 172.80
0.0005"	1.0"	Indicator Only	Horizontal	52562002	216.00 172.78
0.0005"	1 1/2"	Indicator Only	Vertical	52562004	182.00 145.60

Dial Test Indicator w/Accessories					
Graduation	Dial Face Diameter	Features	Indicator Style	Order No.	Regular Price SALE
0.0005"	1 1/2"	Indicator 52-562-001 with Accessories	Horizontal	52562100	229.00 206.10
0.0005"	1.0"	Indicator 52-562-002 with Accessories	Horizontal	52562110	229.00 206.10
0.001"	1.0"	Indicator 52-562-003 with Accessories	Horizontal	52562120	254.00 228.56

3754

MEASURING TOOLS

Mitutoyo Digimatic Indicator

575 Series - Model IDU

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



Order No.	Regular Price	SALE
575-123	230.00	206.99

23943

Mitutoyo Dial Test Indicator Precision Tool Kit

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



Order No.	Regular Price	SALE
513-907-10E	254.00	215.92

4197

Mitutoyo Test Indicator with Ruby Stylus

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

Specifications:

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



Order No.	Regular Price	SALE
513-472-10E	171.00	145.34

4228

PR+CHECK PREMIUM Electronic Indicators with Output

- Absolute/incremental reading and floating zero
- Direct inch/metric conversion and auto-off feature
- Lug and, flat back, 3/8" stem diameter and carbide tipped point
- Tolerance indicators
- Optional USB data kit (PC26DCBS4PIN) available
- 1 Year Warranty



Total Range	Resolution	Indicator Style	Order No.	Regular Price	SALE
0 - 1" / 0 - 25mm	.0005" / 0.01mm	Drop Indicator	PC20EI-1025005EM	77.44	58.10

4583

PR+CHECK

Dial Indicator - 1" Travel,

.001" Gradu

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



Range per Revolution	Dial Reading	Dial Face Diameter	Dial Color	Order No.	Regular Price	SALE
.100"	0-100	2-1/4	White	DI211IP5SP	54.15	40.60

4626

PR+CHECK

Test Indicators with Center

Lock Quill

- water and dust protective rating
- led movement
- Satin chrome finish body
- Anodized center lock arm with strong lock
- Fitted tool set case for easy storage
- 1 Year Warranty



Total Range	Graduation	Dial Reading	Dial Face Diameter	Order No.	Regular Price	SALE
.030	0.0005"	0-15-0	1 1/2"	TIK0305IP6Q	137.73	103.30
.060	0.0005"	0-30-0	1 1/2"	TIK0605IP6Q	203.69	152.80

4636

PR+CHECK PREMIUM

Long Range Dial Test Indicators - .060" Range

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



Graduation	Dial Face Diameter	Dial Color	Order No.	Regular Price	SALE
.0005"	1-1/2	White	TI0601535W	143.74	107.80

† Vertical model

4670

Starrett 25-441J AGD 2 Dial Indicator

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



Order No.	Regular Price	SALE
53295	225.00	202.55

4937

PROCHECK 36 Pc. Millionths Space Block Set

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

Consists of the following sizes:

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



Order No.	Regular Price	SALE
PR1	81.43	57.04

4385

PROCHECK 1/8" Steel Parallel Set

Thin Styled, Matched Pairs - 10 Pair in Fitted Box

- Made of high grade alloy steel, hardened and ground from 1/8" stock
- Two holes in each parallel
- Accuracy: $\pm .0002$ " parallelism in height $\pm .001$ " to size in height



Order No.	Regular Price	SALE
TPS11	118.81	83.21

4356

PROCHECK 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"	E123	24.00	16.79
25 mm	50 mm	75 mm	E25M	40.41	28.27
2"	4"	6"	PR246	241.73	169.26

Tri Block Set					
Overall Width	Overall Length	Overall Height	Order No.	Regular Price	SALE
1"	2"	3"	PR123	55.11	38.58

4371

NOGA Dial Gage Holders with Power On/Off Magnetic Base

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



Bottom Arm Length	Top Arm Length	Pull Force	Style	Order No.	Regular Price	SALE
4.33"	3.98"	176 lbf	Standard	DG10533	151.78	136.57
4.33"	3.98"	176 lbf	Standard	DG61003	141.87	127.69
12.8"	9.50"	290 lbf	Super Long	MA61003	290.31	261.24
5.26"	5.24"	176 lbf	Long	MG10533	179.08	161.22
5.26"	5.24"	176 lbf	Long	MG61003	178.15	160.30
6.43"	4.45"	180 lbf	Extra Long	MG71003	197.93	178.14

4265



Replacement Magnetic Bases



Pull Force	Base Width	Base Length	Base Height	Order No.	Regular Price	SALE
180 lbf	2"	2 3/8"	2 3/16"	DG0036	26.40	23.75
225 lbf	2"	3"	2 3/16"	DG0038	49.49	44.54
290 lbf	2"	4 3/4"	2 3/16"	DG0039	72.59	65.34

4288

PROCHECK Magnetic Bases

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



Description	Order No.	Regular Price	SALE
Standard	300	31.01	23.21
Fine Adjustment	340	35.76	26.80

4569

PROCHECK Flexible Stem Magnetic Bases

- Stem flexes almost 360° and locks into position with cam lever-operated cable and tension adjustment
- Accepts all AGD indicators
- Permanent magnet (90 lb. pull)



Description	Order No.	Regular Price	SALE
Standard	350	80.20	60.13
Fine Adjustment	355	80.90	60.62

4604

Fowler Electronic Measuring Tool Kit

- 0-6" Electronic Caliper, 0-1" Electronic Micrometer, Shop-Hardened Case



Order No.	Regular Price	SALE
54004850	251.00	230.92

29120

MEASURING TOOLS

Mitutoyo Stem Mount Dial Test Indicators

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



Graduation	Dial Reading	Order No.	Regular Price	SALE
0.001"	0-20-0	513-518T	171.00	145.34

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

4224

Fowler Fine Adjust Mag Base Set

With Indi-X Blue Electronic Indicator

Indi-X Blue Indicator Features:

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

Magnetic Base Features:

- 85lb pull
- Fine adjustment
- V-bottom base

Magnetic Indicator Back Features:

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

All in a shop-hardened case



Order No.	Regular Price	SALE
54585075	269.00	247.48

3640

Fowler Flex Arm Base & White Face Dial Indicator Combo

Indicator features:

- 1" Travel
- AGD 2
- 2-1/4" Dial diameter
- Reading: .001"
- Continuous reading: 0-100
- Revolution counter
- Tolerance indicators

Flex-Arm Mag Base features:

- 85lb pull
- Holds rigidly in any position desired
- V-base for placing on round surfaces
- On-off lever release magnet



Order No.	Regular Price	SALE
52641300	150.00	135.00

3641

PRO-CHECK Central Lock Clamp with Indicator

- Anodized 7" universal clamp with fine adjustment magnetic base with on/off switch
- 0-1" Digital indicator
- Protective case
- 1 Year Warranty



Order No.	Regular Price	SALE
CLMB7FA35K	133.87	100.40

4492

PRO-CHECK Magnetic Bases & Electronic Indicator Sets

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



Order No.	Regular Price	SALE
MBFA15EK	100.39	75.30
MBFL15EK	124.17	93.10

4598

PRO-CHECK Workshop Measuring Sets



Set Includes	Order No.	Regular Price	SALE
Sciber, 3" divider, 1/32"-5/8" bore gage, screw cutting gage, 4-42 & 0.25-6.0 mm screw pitch gage, 4"/100 mm brass caliper, automatic center punch, protractor/depth gage, 6"/150mm flexible rule, 4" steel square, storage box	11PCMTS	91.38	64.00
2", 3", 4", & 6" Squares in storage box	4PCMTS	67.04	46.94
2", 4", & 6" Squares, 5" & 6" long scribers in storage box	6PCMTS	70.88	49.58

4881

Starrett Little Giant Jack Screw Set S190Model

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



Order No.	Regular Price	SALE
50680	104.00	93.64

5071

Starrett Plain Tap Wrenches

- For holding taps, drills, reamers and small tools to be turned by hand
- Body is centered for use on lathe centers or drilling machines to start tap straight
- Jaws heat treated to with stand hard use
- All wrenches have sliding handle
- Bodies are longer on 2nd one listed for each size which permits work at depths which cannot be reached with shorter wrenches



Size	Right Hand Thread Length	Order No.	Regular Price	SALE
1/16" to 3/16"	2"	50427	56.00	50.42
1/16" to 3/16"	6"	50430	85.00	76.49
7/32" to 7/16"	2-1/2"	50428	61.00	54.92
7/32" to 7/16"	10"	50431	107.00	96.27
1/4" to 1/2"	3-1/2"	50429	78.00	70.21
1/4" to 1/2"	13"	50432	118.00	106.20

10624

Starrett Tap Wrenches

- Highly finished tempered gripping surfaces
- Holds square or round shanks
- Plunger operated by knurled sleeve
- Spring inside sleeve causes plunger to back off when pressure removed



Size	Right Hand Thread Length	Order No.	Regular Price	SALE
1/16" to 1/4"	6"	50419	79.00	71.05
3/16" to 1/2"	9"	50420	109.00	98.12
1/4" to 5/8"	12"	50421	177.00	159.29
5/16" to 3/4"	16"	50422	239.00	215.10

10625

Starrett Drive Pin Punches

5505PC Model

- Hardened and highly polished and has a knurled grip
- Size of the punch is stamped on the head of each punch
- Set of 8 drive pin punches: 1/16" to 1/4" by 32nds plus 5/16" in attractive, protective case



Order No.	Regular Price	SALE
52587	82.00	73.82

25046

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	51136	36.00	32.41
0.025"-0.075"	Single End	51137	44.00	39.62
0.045"-0.135"	Single End	51138	48.00	43.25
0.110"-0.200"	Single End	51139	53.00	47.74
0.010"-0.200"	4 piece set in Protective Case	51140	187.00	168.28

5088

Fowler 11 Pc. Precision Screwdriver Kit

- This precision screwdriver and tool set is ideal for miniature work
- Features knurled and chromed swiveling handles
- Screwdriver and tool set contains nine screwdrivers, one tapered point scratch awl and one magnetic pick-up tool
- Screwdriver size range: #00, #0, #1, 1/32, 3/64, 1/16, 5/64, 3/32 & 1/8"
- Includes magnetic pick up tool and scratch awl



Order No.	Regular Price	SALE
52490003	36.00	32.34

23218

GENERAL Cordless Precision Engraver

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



Order No.	Regular Price	SALE
505	25.77	20.67

6651

PLANT & SAFETY



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



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Uncoated	Clear	BK010	2.23	1.72
Clear	Scratch Resistant	Clear	BK110	2.38	1.84
Clear	Anti-Fog & Scratch Resistant	Clear	BK110AF	3.20	2.47
Gray	Scratch Resistant	Gray	BK112	2.38	1.84
Light Blue	Scratch Resistant	Light Blue	BK113	3.00	2.32
Mirrored	Scratch Resistant	Clear	BK119	3.00	2.32

2529



OTG Rimless Safety Glasses with Clear Temple, Clear Lens and Anti-Scratch Coating

- Polycarbonate unilens
- Over-the-glass design fits over all prescription eyewear
- Can also be worn by itself as a regular safety glass
- Molded nose bridge design to fit the vast majority of users
- Indirect vent temples to reduce fogging
- Meets ANSI Z87.1+ | Meets CSA Z94.3



Lens Color	Lens Coating	Frame Color	Order No.	Price	SALE
Clear	Anti-Scratch	Clear	18765	2.16	1.58
Gray	Anti-Scratch	Gray	18770	2.34	1.71
Clear	Uncoated	Clear	18775	2.09	1.53

29821



Rimless Safety Glasses with Clear Temple, Clear Lens and Anti-Scratch / Anti-Fog Coating

- Lightweight, rimless design provides all day comfort
- Flexible bayonet temples contain rubber pads for a secure, non-slip fit
- Adjustable rubber nosepiece provides a comfortable fit
- Meets ANSI Z87.1+ | Meets CSA Z94.3



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Scratch / Anti-Reflective	Clear	18000	9.62	7.02
Clear	Anti-Scratch / Anti-Fog	Clear	18005	7.00	5.11
Gray	Anti-Scratch / Anti-Fog	Gray	18010	7.00	5.11
Gradient	Anti-Scratch / Anti-Fog	Black	18015	10.32	7.53
I/O Blue	Anti-Scratch / Anti-Fog	Translucent Brown	18020	10.20	7.45
Clear	Anti-Scratch / FogLess 3Sixty	Clear	18025	9.32	6.80
Gray	Anti-Scratch / FogLess 3Sixty	Gray	18030	9.32	6.80

29826



Rimless Safety Glasses with Black Temple, Clear Lens, Foam Padding and Anti-Scratch / Anti-Fog Coating

- Foam padding design forms a seal to keep out dust and airborne particles
- Lightweight, rimless design provides all day user comfort
- Thin, flexible temples provide a secure fit without uncomfortable pressure points
- 9.5 Base curve lens
- Meets ANSI Z87.1+



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Scratch / Anti-Fog	Black	17710	5.20	3.80

29824



Cortez Safety Glasses

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



SB3610S



SO3610S

Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black	SB3610S	4.65	3.45
Clear	Orange	SO3610S	4.65	3.45

24521



Safety Glasses

Alair

- Straight temples and integrated nose piece fits all facial sizes
- Superior scratch resistant frame and lens



Alair

Ztek

- Soft, non-slip rubber temple
- Integrated nose piece
- Scratch resistant



Ztek

Ztek				
Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Clear	S2510ST	4.77	3.55
Gray	Gray	S2520S	4.23	3.23
Blue Mirror	Blue	S2575	5.83	4.35

Alair				
Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Clear	S3210S	2.56	1.94
Gray	Gray	S3220S	3.12	2.34
Light Blue	Blue	S3260S	3.12	2.34
Mirror	Mirror	S3280S	3.27	2.47

† Indoor or outdoorExceeds ANSI Z87.1-2003 High Impact Requirements 24529

3M 3M™ BX™ Protective Eyewear with Readers

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



Lens Color	Frame Color	Magnification	Order No.	Regular Price	SALE
Clear	Silver	1.5x	11374	19.32	18.35
Clear	Silver	2.0x	11375	19.32	18.35
Clear	Silver	2.5x	11376	19.32	18.35

2391

Pyramex Capstone Shield for Welding or Grinding

- Removable shield provides full face protection
- Four ventilation holes provide appropriate airflow
- Polycarbonate high impact resistance shield conforms to the face offering increased impact & dust protection
- Fully adjustable elastic band
- Lense filters out more than 99.9% of harmful UV radiation
- Frame color: gray



Order No.	Regular Price	SALE
GG504TS	39.87	29.85

24520

Contender™ 18" Cut-resistant sleeves w/spark, heat and flame resistance protection

- Double-layer para-aramid provides heat-resistance and ANSI Level A3 cut protection
- Made with soft knit fabric
- 18" Sleeves provide a snug fit that conforms to your arm for stay-in-place comfort
- Strong resistance to sparks, flames, and heat
- Crafted with latex-free materials to limit the risk of allergic reactions
- Available with or without thumbholes



55270



55280

Style	Size	Cut Rating	ManufacturerNo	Order No.	Regular Price	SALE
without thumbhole	Large	ANSI A3	KAWC18	55270	11.48	9.18
with thumbhole	Large	ANSI A3	KAWC18TH	55280	12.38	9.93

30810



Endura® Stick/Arc welding gloves

- Select split cowhide for comfortable yet rugged service
- Continuous one-piece backs, leather welting in all vulnerable seams
- Full semi-sock thermal-knit cotton lining for comfort and added heat protection
- ANSI Level 2 heat protection
- Sewing thread is made with Kevlar® fiber for added seam integrity
- MIG WELDING, TIG WELDING



Size	Material	ManufacturerNo	Order No.	Regular Price	SALE
Large	Leather	505BU	54180	15.98	12.78

30812

Dexterity® Micropore Nitrile Palm Coated Glove- Maximum Durability

- Micropore nitrile palm coating does not absorb fluids, so hands stay dry
- Fine-gauge nylon knit is soft, flexible and hard-wearing
- Craters act like tiny suction cups to improve grip in wet and oily conditions
- ANSI Level 6 Abrasion resistant
- ANSI Level 2 Puncture resistant



Size	Abrasion Rating	ManufacturerNo	Order No.	Regular Price	SALE
Small	ANSI Level 6	S15NAPN-7	73725	4.50	3.63
Large	ANSI Level 6	S15NAPN-9	73735	4.50	3.63
X-Large	ANSI Level 6	S15NAPN-10	73740	4.50	3.63
2X-Large	ANSI Level 6	S15NAPN-11	73745	4.50	3.63

30828



3120 Split Leather Driver Gloves

- Straight thumb
- Regular grade
- Slip-on cuffs
- Unlined styles
- Shirred elastic backs
- Color-coded hem to identify size



Size	Color	Material	Order No.	Regular Price	SALE
Small	White	Cowhide	3120S	6.66	5.03
Medium	White	Cowhide	3120M	6.66	5.03
Large	White	Cowhide	3120L	6.66	5.03
X-Large	White	Cowhide	3120XL	6.96	5.23

30778

PLANT & SAFETY

SHOWA Atlas 451

- Quick drying
- Excellent wet & dry grip
- Breathable
- Good mechanical resistance
- Insulated, high warmth
- Ergonomic design
- Coating: natural rubber
- Liner: polyester/cotton/acrylic
- Color: light gray/gray palm



Size	Order No.	Regular Price	SALE
Small	02730	5.15	4.10
Medium	02735	5.15	4.10
Large	02740	5.15	4.10
X-Large	02745	5.15	4.10

30844

SHOWA 381

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



Size	Order No.	Regular Price	SALE
Small	02320	5.63	4.50
Medium	02325	5.63	4.50
Large	02330	5.63	4.50

30893

MCR SAFETY 4600 Blue Beast® Welder's

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



Size	Order No.	Regular Price	SALE
X-Large	4600XL	22.64	17.01
2X-Large	4600XXL	27.18	20.34

30708

W.L. 70062 Thermal Leather Driver

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



Size	Order No.	Regular Price	SALE
Small	10515	10.75	9.10
Medium	10520	10.75	9.10
Large	10525	10.75	9.10
X-Large	10530	11.49	9.80

30891

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

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

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



N-Ferno® Winter Liner 6821 Balaclava

- Long length
- Single wash FR treated
- Polyester fleece

Style	Order No.	Regular Price	SALE
N-Ferno Fleece Balaclava		8.81	6.61
2-Layer	6850	9.73	7.32
2-Layer		14.57	10.96

23167

N-Ferno® 6823 Wind-Proof Hinged Balaclava

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



	Regular Price	SALE
6823	22.71	17.02

2606

ISOtunes ISO Pro Aware Earplugs

- Aware Technology™ offers complete situational awareness and protection from harmful noises.
- ANSI-certified 25 dB NRR
- OSHA-compliant hearing protection
- SafeMax™ Technology limits volume output to 85dB.
- Up to 13 hours of battery life
- Up to 25 additional hours with charging case
- durability for dust, sweat, and waterproof protection
- Background noise-reducing microphone for clear communication in loud environments
- Bluetooth 5.2 connects devices up to 30 feet.
- Siri/Google Voice Compatible
- Automatic Power Off after 2 hours without Bluetooth connection for battery conservation
- True Wireless Design



Noise Reduction Rating	Style	Color		Regular Price	SALE
ANSI-certified 25 dB NRR	Uncorded	Lime/Black	5015	205.99	185.40

30836

ISOtunes ISO Link Aware Ear Muffs Green

- Aware Technology™ offers complete situational awareness and protection from harmful noises.
- ANSI-certified 25 dB NRR
- OSHA-compliant hearing protection
- SafeMax™ Technology limits volume output to 85dB.
- Up to 11 hour rechargeable battery life
- AAA battery compatible for up to 22 hours of connection (not included)
- IPX4 Durability for sweat and water resistance.
- Noise-Isolating Microphone for clear communication in loud environments
- Bluetooth 4.2 connects, and dual-connects, devices up to 30 feet.
- Siri/Google Voice Compatible
- Automatic Power Off after 4 hours without Bluetooth connection for battery conservation
- Vented headband
- Memory foam ear cushions



Type	Noise Reduction Rating	Style	Color	Order No.	Regular Price	SALE
Ear Muff	ANSI-certified 25 dB NRR	Ear Muff	Lime/Black	5034	144.19	129.80

30837



Disposable Earplugs

- Taper fit made of polyurethane material
- Plug gently expands and self adjusts to all size ear canals
- NRR: 31dB
- Priced per box



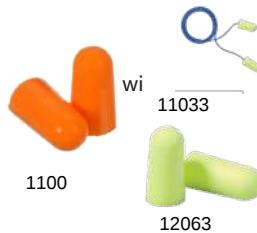
Style	Standard Pack	Order No.	Regular Price	SALE
Disposable / Uncorded	200	DP1000	42.82	32.11
Disposable / Corded	100	DP1001	42.82	32.11

*All styles meet ANSI S3.19 Specifications

24522

3M Disposable Earplugs

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



Noise Reduction Rating	Standard Pack	Order No.	Regular Price	SALE
29 dB	200	1100	0.18	0.17
33 dB	200	11033	0.33	0.30
33 dB	200	12063	0.18	0.17

Price Per Each Sold By Box

22583

3M 3M™ Peltor™ Optime™ 101, Helmet Attachable

- Liquid/foam filled ear cushions
- For noise levels to 101dBA
- Easily attaches to fit most helmets & caps
- RoHS Compliant: NA
- Color: green



Noise Reduction Rating	Order No.	Regular Price	SALE
24 dB	H7P3E	31.70	30.08

2422

PRM PRO Class 2 Hi-Vis Safety Vests

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



Size	Yellow/Silver, Zipper			Yellow/Orange/Silver, Zipper		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
X-Large	SV8040	14.50	11.56	SV8110	14.50	11.64
2X-Large	SV8045	14.50	11.56	SV8115	14.50	11.56
3X-Large	SV8050	14.50	11.56	SV8120	14.50	11.64

2932

3M 3M™ Particulate Respirator 8210V, N95

- Proprietary 3M™ CoolFlow™ valve helps keep wearer cool
- Cushioning nose foam
- Adjustable noseclip helps provide a custom fit and secure seal
- Min. 10 per box

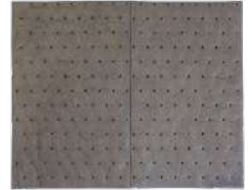


Order No.	Regular Price	SALE
49711	1.86	1.79

2419

OIL-DRY Universal Bonded SMF Pads

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



Width	Length	Standard Pack	Weight	Order No.	Regular Price	SALE
15"	19"	100	13 lbs	L91001	93.69	65.60
15"	19"	100	17 lbs	L90902	128.39	89.90
16"	20"	50	9 lbs	L90907	71.04	49.70

24219

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

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



Container Size	Order No.	Regular Price	SALE
24 oz	212109	21.62	20.50

22609

Kimberly-Clark Professional WYPALL X80™

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



41043



05930



41041

Container Type	Length	Width	Sheets Per Package	Weight	Order No.	Regular Price	SALE
Pop Up Box	16.8"	9.1"	80	12.4 lbs	05930	28.48	22.76
Brag Box	16.8"	12 1/2"	160	6.3 lbs	41041	56.76	45.38
Jumbo Roll	13.4"	12 1/2"	475	14.0 lbs	41043	127.16	101.76

2737

PLANT & SAFETY

Koehler BrightStar Vision 600 Rechg Lighthawk

Model No. 07712

- **Bulb:** LED
- **Lumens:** 600
- **Run time:** 6.25 Hours
- **Size:** 9.5 x 3.12 x 5.12"
- **Batteries:** Lithium ion battery pack (re-chargeable), 120V AC charger
- **Features:** Wall/vehicle mountable, micro-processor controlled, super tough nylon construction, LED charge status indicator, non-slip rubber bottom and handle, low battery indicator, high visibility flashing LED tail light. waterproof, floats, weighs 1.9 lbs.



Order No.	Regular Price	SALE
07712	356.50	320.85

2748

Koehler BrightStar Intrinsically safe Spot/Flood Headlamp

Model No. 200501

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



Order No.	Regular Price	SALE
200501	44.27	39.85

2749

Koehler BrightStar Freakin' Beacon™ Flasher

- 5 COLORS: Red, Blue, Amber, White and Green
- Green color runs 36 hrs. on steady, 144 hrs. on flash.
- Blue color runs 48 hrs. on steady, 192 hrs. on flash.
- Red, Amber, White colors run on 65 hrs. on steady, 200 hrs. on flash.
- Uses 2 AAA batteries (not included)
- Class I, Div 1
- Waterproof
- 3M Dual Lock included
- Light visible from 1000+ feet
- Drop rated to 2 meters
- Optional helmet band for metal, plastic and spring clips
- Limited Lifetime warranty
- LENGTH: 2.7" WIDTH: 2.6" HEIGHT: 1.5"



			Metal Clasp			Plastic Spring			Plastic Solid			Magnet		
LED Color	Lumens Range	Battery Size	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Amber	25/strobe	AAA	71000A	49.43	44.50	71010A	49.43	44.50	71020A	49.43	44.50	71030A	49.43	44.50
Blue	25/strobe	AAA	71000B	49.43	44.50	71010B	49.43	44.50	71020B	49.43	44.50	71030B	49.43	44.50
Green	25/strobe	AAA	71000G	49.43	44.50	71010G	49.43	44.50	71020G	49.43	44.50	71030G	49.43	44.50
Red	25/strobe	AAA	71000R	49.43	44.50	71010R	49.43	44.50	71020R	49.43	44.50	71030R	49.43	44.50
White	25/strobe	AAA	71000W	49.43	44.50	71010W	49.43	44.50	71020W	49.43	44.50	71030W	49.43	44.50

29684

PRM PRO Drum Dolly-Non-Marring Caster Wheels

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



For Use With	Drum Capacity	Order No.	Regular Price	SALE
55 Gallon Drums	1,500 lbs	DLO55M	221.45	177.20

30841

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	65018	33.37	25.03
Blue	65022	33.37	25.03

25101

PROCELL[®] Professional Industrial Batteries

The Procell Difference

- World's first dual portfolio of professional batteries: by conducting intensive device testing and analysis, Procell has discovered that a way to dramatically extend alkaline battery life and cut replacement costs is to engineer device-specific industrial alkaline batteries, each with unique power profiles.
- Premium brand exclusively focused on the professional battery market.
- Deep understanding of professional devices and the battery category through device testing and analysis in our labs.
- Available in Alkaline and Lithium
- Standard power and Intense extra strength power available
- Sold in box qty. only

Procell

- Alkaline battery
- General purpose
- Reliable long lasting power
- Operating temperature -4° to 129.2°F

Procell Intense

- Alkaline battery
- For high drain devices
- Date coded
- Operating temperature -4° to 129.2°F

Procell Lithium Coin/Cell

- Lithium coin battery
- For compact professional devices
- Operating temperature -4° to 140°F

Procell High Power Lithium

- High power lithium battery
- General purpose
- Operating temperature -4° to 140°F



PROCELL					
Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
AAA	24	4133353648	10000	0.80	0.76
AA	24	4133352148	10050	0.80	0.76
C	12	4133311440	10070	1.91	1.81
D	12	4133311340	10090	2.27	2.16
9V	12	4133352748	10200	3.38	3.20

PROCELL INTENSE					
Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
AA	24	4133303437	50000	0.93	0.88
AAA	24	4133303715	50005	0.93	0.85
C	12	4133303423	50050	2.21	2.10
D	12	4133303424	50070	2.50	2.37
9V	12	4133303716	50080	3.40	3.20

PROCELL Lithium Coin/Cell					
Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
3V	5	4133303459	10405	8.89	8.44
3V	5	4133303458	10410	8.89	8.44
3V	5	4133303457	10415	8.89	8.44

PROCELL High Power Lithium					
Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
3V	12	4133300438	10420	4.97	4.68
3V	12	4133303456	10425	4.97	4.68

29870



Handheld Lighted Magnifier

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



JMINI



J203HHM

Magnification	Battery Size	Number of Batteries	Lamp Type	Order No.	Regular Price	SALE
2.5X	AAA	4	24 x 0.5W Hi Brightness LEDs	J203HHM	84.46	80.20
2.5X	AAA	4	12 x 0.5W Hi Brightness LEDs	JMINI	75.19	71.40

2549



Heavy Duty Cord Reels

50' Heavy-Duty Cord Reel Triple-Tap "T" Style

- 50' Heavy-duty 14/3 cord, (SJTW)
- Tri (3) Polarized plug with four 13 amp grounded receptacles
- 40% Larger cord reel with smooth glide rewind
- Resettable 13 amp circuit breaker
- LED power status light
- Mounting brackets (included)



SL800



SL8903

Heavy-Duty Cord Reel 3-Tap Straight Plug

- 30' 16/3 Foot cord,(SJT)
- Polarized plug with three 10 amp grounded receptacles
- Heavy-duty metal retractable reel
- Brackets for wall or ceiling mounting (included)
- LED power status light

Cord/Cable Length	Order No.	Regular Price	SALE
30 feet	SL800	97.96	78.42
50 feet	SL8903	263.11	210.47

22769



Blow Guns

- Blow Guns 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	AG2	28.74	22.95
Safety	AG7	10.61	8.54

2239



Right Choice™

the Right Choice for YOU!



Facial Tissue

- Right Choice™ Facial Tissues offer quality, softness and performance
- Provides excellent value and good quality
- Controlled one-at-a-time dispensing
- Flat box fits on counters and in-wall dispenser
- Chlorine free



Sheet Size	Ply	Sheets per Package	Color	Order No.	Regular Price	SALE
7.25" x 8.5"	2	100	White	10185	68.17	54.51

28733



Paper Towels

- Great value and performance and meets EPA guidelines for recycled fiber content
- Embossing enhances better hand feel and improves absorbency
- Smaller footage fits more dispensers, taking up less storage
- Popular in education, industrial and food service markets
- Fits in universal dispensers



Type	Width	Length	Ply	Color	Number Per Case	Number of Sheets	Order No.	Regular Price	SALE
Hardwound Roll	7.875"	350'	1	White	12 Rolls	-		67.33	53.86
Hardwound Roll	7.875"	350'	1	Natural	12 Rolls	-		52.65	41.60
Hardwound Roll	7.875"	800'	1	White	6 Rolls	-		71.85	57.43
Hardwound Roll	7.875"	800'	1	Natural	6 Rolls	-		58.70	45.92
Hardwound Roll	7.875"	700'	1	White	6 Rolls	-		65.05	52.00
Hardwound Roll	7.875"	700'	1	Natural	6 Rolls	-		50.85	40.65
Kitchen Roll	11"	8"	2	White	12 Rolls	250 RL		61.38	49.10
Kitchen Roll	11"	7.8"	2	White	30 Rolls	85 RL		60.70	48.51
Center Pull	10"	7.3"	2	White	6 Rolls	600 RL		60.83	48.64
C-Fold	10"	11.42"	1	White	10 pks	200 PK		50.55	40.39
Multi-Fold	9"	9.45"	1	White	16 pks	250 PK		67.88	54.26
Multi-Fold	9"	9.45"	1	Natural	16 pks	250 PK		47.73	38.17
Single Fold	9"	9.45"	1	White	16 pks	250 PK	10160	54.78	43.78

28725



2-Ply Bath Tissue

- Individually wrapped
- Ideal for tight spaces and small use requirements
- 2-Ply embossing provides superior softness and absorbency
- Fits in universal dispensers



Style	Width	Diameter	Core Diameter	Number of Plies	Roll Length	Sheets per Roll	Number of Rolls	Order No.	Regular Price	SALE
Standard	4"	4.25"	1.75"	2	100'	400	96		93.68	74.94
Standard	4.5"	4"	1.5"	2	145.8'	500	96		118.60	94.88
Jumbo	3.25"	8"	3.5"	2	700'	-	12		62.05	49.60
Jumbo	3.3"	8.75"	3.25"	2	1000'	-	12	10175	80.45	64.35

28724



RIGHT PRODUCTS. ✓

RIGHT QUALITY. ✓

RIGHT VALUE. ✓

RIGHT CHOICE. ✓

SC Johnson PROFESSIONAL A family company **SBS® 40 Medicated Skin Cream**

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



Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
100 ml	Tube	-	SBS100ML	5.19	4.42
1 Ltr	Cartridge	RES1LDS	SBS1L	34.00	28.90

22171

SC Johnson PROFESSIONAL A family company **Solopol® Classic 2L & 4L Cartridges**

- For use in industrial environments to remove heavy soiling
- Solvent-free hand cleanser for removal of heavy contamination
- Astopon® natural scrubbing agent gently removes contaminants without damaging the skin
- Contains Eucornol® to minimize the risk of skin irritation



Container Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
2 liter	Cartridge	HVY2LDB	SOL2LT	36.29	30.85
4 liter	Cartridge	HVY4LDB	SOL4LTR	65.39	55.58

22174

SC Johnson PROFESSIONAL A family company **Kresto® Cherry 2L & 4L Cartridges**

- For use in industrial environments to remove extremely heavy soiling
- Cherry fragrance neutralizes petroleum odors on hands
- Contains toxicologically safe solvents to lift difficult to remove oil-based contaminants without harming the skin
- Contains Eucornol® to minimize the risk of skin irritation
- Astopon® natural scrubbing agent gently removes contaminants without damaging the skin



Container Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
2 liter	Cartridge	HVY2LDB	KCH2LT	43.45	36.90
4 liter	Cartridge	HVY4LDB	KCH4LTR	68.94	58.58

22175

SC Johnson PROFESSIONAL A family company **Solopol® GFX™ 3.25L Cartridge**

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



Container Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
3.25 liter	Cartridge	GPF3LDQ	GPF3LNA	68.51	58.24

22184

SC Johnson PROFESSIONAL A family company **Refresh™ Azure FOAM 1L Cartridge**

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



Container Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
1 liter	Cartridge	WRM1LDS	AZU1L	17.81	15.12

22187

SC Johnson PROFESSIONAL A family company **Estesol® Lotion 1L Cartridge**

- For use in general industrial environments
- Lightly fragranced lotion hand cleanser to remove general dirt and grime
- Contains Glycerin to help prevent skin dryness
- Mild blend of surfactants for fast and effective hand cleaning



Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
1 Ltr	Cartridge	LGT1LDS	LTW1L	9.92	8.40

22186

SC Johnson PROFESSIONAL A family company **Deb Stoko® Cleanse Heavy 2000 & 4000 Dispensers**

- Black manual dispenser
- BioCote Protected
- Guaranteed for Life



Refill Size	Order No.	Regular Price	SALE
2 Ltr	HVY2LDB	9.16	7.80
4 Ltr	HVY4LDB	18.31	15.60

22176

SC Johnson PROFESSIONAL A family company **Deb Stoko® Restore 1000 Dispenser**

- Manual white dispenser
- BioCote Protected
- Guaranteed for Life



Refill Size	Order No.	Regular Price	SALE
1 Ltr	RES1LDS	3.43	2.90

22179

SC Johnson PROFESSIONAL A family company **Deb Stoko® Heavy Duty FOAM 3250 Dispenser**

- Manual dispenser
- BioCote® Protected
- Guaranteed for Life



Refill Size	Order No.	Regular Price	SALE
3.25 Ltr	GPF3LDQ	11.44	9.70

22185

SC Johnson PROFESSIONAL A family company **Deb Stoko® Cleanse Washroom 1000 Dispenser**

- Manual white dispenser
- BioCote Protected
- Guaranteed for Life



Refill Size	Order No.	Regular Price	SALE
1 Ltr	WRM1LDS	3.43	2.98

22188

SC Johnson PROFESSIONAL A family company **Deb Stoko® Cleanse Light Soap Dispenser**

- Manual white dispenser
- BioCote Protected
- Guaranteed for Life



Refill Size	Order No.	Regular Price	SALE
1 Ltr	LGT1LDS	1.03	0.88

22192

MATERIAL HANDLING

PROTO General Purpose Tool Box with 3 Drawers

- 21 in General Purpose Toolbox, 3-Drawers
- Removable steel tote tray
- Heavy-duty side handles
- Padlock center feature hasp for security



Length	Width	Height	Depth	Model No	Order No.	Regular Price	SALE
18"	20 3/16"	11/34"	8 3/4"	J9993	92125	203.34	111.84

5494

STANLEY 50 Gallon Mobile Tool Chest

- Wide work surface on lid that includes two 2" x 4" saw grooves
- Pull-out steel handle with soft grip for easy maneuverability
- Large, nickel-plated metal latches
- Lock and keys included
- Wide, heavy-duty rubber-coated wheel



Height	Width	Model No	Order No.	Regular Price	SALE
23"	23"	037025H	8026	232.14	139.28

29408

National Public SEATING Corp. Kangaroo Stool

- Heavy duty 1-1/4" thick polyurethane seat with waterfall edge
- 10" of Kangaroo pneumatic height adjustment from 22"-32"
- Swivels 360° for unlimited functionality
- Integrated under seat spring system allows for control of backrest tilt
- Footrest adjusts 12" up or down for comfort
- Convenient backrest handhold for maneuverability
- Comes with casters and slides
- 300 Lb. weight capacity



Order No.	Regular Price	SALE
6722HB	490.28	367.71

5460

PRM PRO Mechanics Shop Stool Seat

- 14" Seat adjusts from 15-3/4" to 20"
- Cushion seat swivels 360°
- 2-1/2" diameter nonmarring nylon casters
- 300 lb maximum seat capacity
- Limited lifetime warranty
- Ships UPS



Order No.	Regular Price	SALE
3000	74.00	59.20

5480

PRM PRO Shop Stool with Cushion Seat

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



Height	Order No.	Regular Price	SALE
29"	6000	70.00	56.00

5481

DURHAM MFG Est. 1922 Sturdy All Steel Parts Bins

- Easy parts access
- Hemmed and ribbed dividers
- 1-1/8" Wide label holders
- Large capacity - all units are 12" deep and all bin openings are 11-7/8" deep
- UPS dimensional weight shipping rates apply on 40B



Number of Bins	Height	Order No.	Regular Price	SALE
40	23 7/8"	40B	228.12	193.90
72	42"	72B	352.59	299.70

† Ships By Truck

23115

Huot CNC Security Cart

- Clear polycarbonate doors allow for easy at-a-glance tool identification
- Comes with 2 sets of doors to secure both sides
- Doors are keyed alike for easy operation and security
- Shelves can be adjusted in 7 different mounting positions
- Side tray allows for optional tool changing vise or collect racks
- Large open tray area for utility transport
- Size: 41 x 35 x 20"



Taper Size	Tool Capacity	Order No.	Regular Price	SALE
30	48	16930	1,042.09	989.99
40	48	16940	1,042.09	989.99
HSK 50A	36	16950	1,042.09	989.99
HSK 63A	48	16970	1,042.09	989.99
HSK 100A	36	16980	1,042.09	989.99

Ships by common carrier

5361



CNC Tool Cart

- Constructed of prime 12 gauge steel for rugged heavy duty use
- New outrigger design for improved stability, easier maneuverability for a safe, smooth tool ride
- Heavy duty, extra smooth rolling casters load rated to 1600 lbs for long caster life, with locking caster mechanism
- Cart size 45-1/4 x 17-1/2 x 40"
- Ships by truck



Taper Size	Tool Capacity	Weight	Order No.	Regular Price	SALE
40	90	132 lbs	23940	804.24	683.60
50	52	132 lbs	23950	804.24	683.60
HSK 63A	52	132 lbs	23970	937.88	797.20
HSK 100A	52	132 lbs	23980	937.88	797.20

Ships by Common Carrier

5383



ToolScoot™ Carts

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



Taper Size	Tool Capacity	Weight	Order No.	Regular Price	SALE
HSK 63A	48	75	13970	674.29	573.15
HSK 100A	36	79	13980	674.29	573.15
30	48	75 lbs	30HU	599.51	509.58
40	48	75 lbs	40HU	599.51	509.58
50	36	75 lbs	50HU	599.51	509.58

Ships by Truck

5392



2" Wide General Duty Ratchet Assemblies

- Ultimate strength 5000 lbs
- Working load limit rounded to 1600 lbs
- 2" Wide yellow webbing with bright orange stripe one side
- 10" web length on fixed end



Length	Style	Order No.	Regular Price	SALE
27 feet	Ratchet Hook Buckle	60501	82.48	65.98
27 feet	Ratchet Hook Buckle	60507	110.53	77.37
30 feet	Ratchet Hook Buckle	60502	85.68	68.54
30 feet	Ratchet Hook Buckle	60508	113.72	79.60

23703



Storage Bins

AkroBins Industrial Grade Polymers Storage Bins That Hang or Stack

- AkroBins hang securely from louvered panels
- Extra-wide stacking ledge assures secure stacking
- Anti-slide stop prevents loaded bins from shifting forward when stacked
- Large label slot for clear identification
- Reinforced ribs prevent bins from spreading when loaded
- Finger grips allow easy handling
- Available in: Blue, Red, Stone, Yellow.



								Yellow			Stone			Red			Blue		
Outside Length	Outside Width	Outside Height	Inside Length	Inside Width	Inside Height	Standard Pack	Use Dividers	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
5 3/8"	4 1/8"	3"	4 3/4"	3 7/16"	2 13/16"	24	-40210	30210Y	2.54	1.91	30210S	2.54	1.91	30210R	2.54	1.91	30210B	2.54	1.91
7 3/8"	4 1/8"	3"	6 3/4"	3 7/16"	2 13/16"	24	-40220	30220Y	4.70	3.53	30220S	4.70	3.53	30220R	4.70	3.53	30220B	4.70	3.53
10 7/8"	5 1/2"	5"	10 1/4"	4 3/8"	4 3/4"	12	-40230	30230Y	11.43	8.57	30230S	11.43	8.57	30230R	11.43	8.57	30230B	11.43	8.57
10 7/8"	11"	5"	10 1/4"	10"	4 3/4"	6	-40230	30235Y	17.63	13.22	30235S	17.63	13.22	30235R	17.63	13.22	30235B	17.63	13.22
10 3/4"	8 1/4"	7"	10"	6 9/16"	6 3/4"	6	-40239	30239Y	18.90	14.18	30239S	18.90	14.18	30239R	18.90	14.18	30239B	18.90	14.18
14 3/4"	8 1/4"	7"	14"	6 9/16"	6 3/4"	12	-40245	30240Y	22.38	16.79	30240S	22.38	16.79	30240R	22.38	16.79	30240B	22.38	16.79
14 3/4"	16 1/2"	7"	14"	14 3/4"	6 3/4"	6	-40245	30250Y	31.52	23.64	30250S	31.52	23.64	30250R	31.52	23.64	30250B	31.52	23.64
18"	8 1/4"	9"	17 1/8"	6 1/2"	8 1/4"	6	-40265	30265Y	37.57	28.18	30265S	37.57	28.18	30265R	37.57	28.18	30265B	37.57	28.18
18"	16 1/2"	11"	17 1/8"	14 7/8"	10 1/2"	3	-40270	30270Y	56.73	42.55	30270S	56.73	42.55	30270R	56.73	42.55	30270B	56.73	42.55



Plastic Poly Trucks

- Heavy-duty molded plastic body
- All-welded steel angle-iron frame
- Casters welded to frame in a corner pattern
- Load capacity 400-1000 lbs.



Volume Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Color	Order No.	Regular Price	SALE
30 gallons	400 lbs	32-3/4"	21-1/4"	19-3/4"	Gray	10004	215.61	194.05
41 gallons	400 lbs	32-1/4"	23-1/4"	24"	Gray	10006	185.40	166.86
51 gallons	400 lbs	37"	24-1/2"	23-3/4"	Gray	10007	195.70	176.13
57 gallons	400 lbs	36-1/4"	24-1/4"	27"	Gray	10008	216.30	194.67
73 gallons	600 lbs	38-1/4"	29-1/4"	31"	Gray	10010	226.60	203.94
84 gallons	600 lbs	38"	28-1/4"	34-1/4"	Gray	10012	236.90	213.21
115 gallons	600 lbs	43-3/4"	31-3/4"	35"	Gray	10014	252.35	227.12
125 gallons	800 lbs	45"	31"	36"	Gray	10016	257.50	231.75
145 gallons	800 lbs	46-1/4"	34"	37-3/4"	Gray	10018	278.10	250.29
151 gallons	800 lbs	46"	34"	39"	Gray	10020	303.85	273.47
320 gallons	1000 lbs	71"	47-1/2"	36-3/4"	Gray	10040	597.40	537.66

Ships FOB from Mfg.

29954



ProCard

Versatile box-top to flat-top & portable storage all in one.

- Deep molded-in compartments hold hand-held computer, scanner, tools, etc
- Dent resistant & rust-proof
- Sized to hold Akro-Bins (sold separately)
- Rail kit to hang bins (sold separately)
- Maneuvers smoothly on durable non-marking
- 5 wheels Each shelf holds 200 lbs



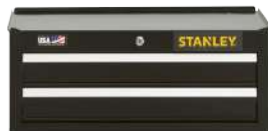
Type	For Use With	Order No.	Regular Price	SALE
Rail Kit	30936G	30906G	264.69	198.52

29419

MATERIAL HANDLING

STANLEY 26-1/2" Top and Middle Chests

- Double wall steel construction holds up to frequent use.
- 85 lb. full-extension ball-bearing drawer slides operate smoothly.
- Adds storage between the tool chest and rolling cabinet.
- Keyed internal locking system safeguards tools.
- Large drawer trim provides extra finger clearance.
- 1,896 cubic inches of storage.



6032



6040

Middle Tool Chest										
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Total Cubic Inches	ManufacturerNo	Order No.	Regular Price	SALE
2	Ball Bearing	10.25"	26"	16"	Black	1,896	STST22625BK	6032	282.52	237.32

Tool Chest										
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Total Cubic Inches	ManufacturerNo	Order No.	Regular Price	SALE
5	Ball Bearing	19.75"	26"	16"	Black	5,840	STST22657BK	6040	480.23	403.40

FOB Novi, Michigan common carrier

29393

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

- 85 lb. Full-Extension Ball-Bearing Drawer Slides for smooth operation and ease of use
- 4.5" x 1.5" Casters Support 650 lbs.; two lock and swivel
- Gas Struts Support the Chest Lid to easily open and close
- Keyed Internal Locking System safeguards tools
- Full-Grip Side Handle on Rolling Cabinet and Recessed Handles on tool chest for easy lifting and portability
- Non-Slip Open Weave Top Mat protects the cabinet surface
- Middle Chest Adds Storage between the tool chest and rolling cabinet
- Full-Width Aluminum Drawer Trim can be opened anywhere along the drawer
- 14,404 Cubic Inches of Storage
- White Carton with Full-Color Graphic Label on One Side



6030

Middle Tool Chest									
Number of Drawers	Drawer Type	Height	Width	Depth	Color	ManufacturerNo	Order No.	Regular Price	SALE
2	Ball Bearing	12.25"	26"	12"	Black	STST22623BK	6030	282.52	237.32

Ships Common Carrier

29394

PRM PRO 20" All Purpose Tool Bag

- Made from heavy duty water repellent polyester
- For easy storage of welding helmet, welding jacket, tools and gloves
- Closed top with zip
- Includes padded handle and detachable shoulder strap



Length	Width	Height	Order No.	Regular Price	SALE
20"	11"	13"	0001	48.76	36.60

5461

PRM PRO 25" Tote Tool Bag

- Made from heavy duty water repellent polyester
- Hard bottom reinforced base with studs for base protection
- Closed top with zip and framed opening
- 19 exterior pockets and 18 interior pockets; 2 side strapping for levels
- Includes padded handle and detachable shoulder strap



Length	Width	Height	Order No.	Regular Price	SALE
25"	12"	13"	7701	67.06	50.33

5462

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"	7697	38.11	28.60
24"	9"	12"	7699	42.48	31.82

5487

KENNEDY 5-Drawer Roller Cabinets Models 275 & 295

- Tamper proof internal drawer locking system. Fully lockable.
- Comes with side handle
- Brown wrinkle or Industrial red

Model 275X Features:

- 27"W x 18"D x 35"H
- Comes with 5" x 2" casters
- 1400 lb capacity

Model 295 & 295X Features:

- 29"W x 20"D x 35"H
- Comes with 5" x 2" casters
- 1400 lb capacity



Width - 27", Depth - 18", Height - 35"			
Color	Order No.	Regular Price	SALE
Brown Wrinkle	275XB	1,247.06	935.25
Red	275XR	1,247.06	935.25

Width - 29", Depth - 20", Height - 35"			
Color	Order No.	Regular Price	SALE
Brown Wrinkle	295XB	1,282.34	961.71
Red	295XR	1,282.34	961.71

* Available while supplies last . • Ships by Truck

23603

STANLEY 4 Drawer Tool Chest & Roller Cabinet Combo

- 50 lb. Full-Extension Ball-Bearing Drawer Slides for smooth operation and ease of use
- 4" x 2" Casters Support 500 lbs.; two lock and swivel
- Gas Struts Support the Chest Lid to easily open and close
- Keyed Internal Locking System safeguards tools
- Recessed Side Handles on tool chest allow for easy lifting
- Non-Slip Open Weave Top Mat protects the cabinet surface
- Middle Chest Adds Storage between the tool chest and rolling cabinet
- Full-Width Black Steel Drawer Trim can be opened anywhere along the drawer
- Each unit sold separately



Tool Cabinet												
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Drawers Sizes	Caster Diameter	Load Capacity	Manufacturer No	Order No.	Regular Price	SALE
4	Ball Bearing	32"	26.5"	18"	Black	(1) 22.125x16.5x4.125, (3) 22.125x16.5x6.375	4"	500 lbs	STST22742BK	6042	423.76	355.95

29387

STANLEY 5-Drawer Roller Cabinet

- Full-extension ball-bearing drawer slides for smooth operation
- Five 85 lb. load capacity drawers
- 650 lb. load rating with 4.5 in. x 1.5 in. casters, two lock and swivel
- Keyed internal locking system safeguards tools
- Full-grip tubular side handle for portability
- Non-slip open weave top mat helps protect the cabinet surface
- Full-width aluminum drawer trim for grip
- Double-wall steel construction provides strength and durability



Tool Cabinet													
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Drawers Sizes	Caster Diameter	Load Capacity	Total Cubic Inches	Manufactur- erNo	Order No.	Regu- lar Price	SALE
5	Ball Bearing	40.5"	26.5"	18"	Black	(1) 22.375x16.5x3.125, (1) 22.375x16.5x4.125, (2) 22.375x16.5x6.375, (1) 22.375x16.5x9.5	4 1/2"	650 lbs	8,030	STST22753BK	6046	734.55	617.03

29392

STANLEY 41"W 12-Drawer Tool Chest & Roller Cabinet Combo

- 85 lb. Full-Extension Ball-Bearing Drawer Slides for smooth operation and ease of use
- 4.5" x 1.5" Casters Support 650 lbs.; two lock and swivel
- Deep Drawers for hand tool cases and bulky power tools
- Gas Struts Support the Chest Lid to easily open and close
- Keyed Internal Locking System safeguards tools
- Full-Grip Side Handle on Rolling Cabinet and Recessed Handles on tool chest for easy lifting and portability
- Non-Slip Open Weave Top Mat protects the cabinet surface
- Middle Chest Adds Storage between the tool chest and rolling cabinet
- 22,117 Cubic Inches of Storage
- White Carton with Full-Color Graphic Label on One Side



Tool Cabinet												
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Drawers Sizes	Caster Diameter	Load Capacity	ManufacturerNo	Order No.	Regular Price	SALE
8	Ball Bearing	34"	41"	18"	Black	(1) 22.375x16.5x4.13, 22.375x16.5x3.125, (1) 11.75x16.5x4.13, (2) 11.75x16.5x3.125, (1) 22.375x16.5x6.38, (1) 22.375x16.5x9.5, (1) 11.75x16.5x12.75	4 1/2"	650 lbs	ST-181BK	6054	920.24	773.00

29397

Vestil Tilting Drum Rings

- Easily transport steel drums with your fork truck
- Manually rotate drum to dispense light materials
- The band secures around the belly of the drum
- Welded steel construction for durable strength
- Capacity 1200 lbs
- **Capacity is based on full drums / half-full drums are rated at 600 lbs**



For Use With	Material	Width	Height	Order No.	Regular Price	SALE
30 Gallon	Carbon Steel	33-13/16"	5"	TDR30G	103.97	93.60
30 Gallon	Stainless Steel 304	33-13/16"	5"	TDR30SS	248.14	223.30
55 Gallon	Carbon Steel	37-15/16"	5"	TDR55	89.51	80.60
55 Gallon	Carbon Steel	37-15/16"	5"	TDR55G	116.37	104.70
55 Gallon	Stainless Steel 304	37-15/16"	5"	TDR55SS	260.54	234.50

5588

HARPER 600 & 700 Lb. Drum Cradle

- Constructed of 1" OD x 14 gauge steel tubing
- "Non-skid" features on front rockers to prevent frame from sliding when drum is tipped
- 5" Rubber wheels and 3" rubber casters

#8818-41

- Welded
- Bung drain is 21" off floor in horizontal position
- For use with 30 and 55 gallon drums
- Comes with two break-over retractable handles
- Ships by truck



861841KD

#8618-41KD

- Shipped knocked down in a 36" x 23-1/2" x 3-1/2" carton
- Bung drain is 18-7/8" off floor in horizontal position
- For use with 55 gallon drums
- Comes with one break-over retractable handle
- Ships UPS Dimensional



881841

Style	Drum Capacity	Order No.	Regular Price	SALE
Knocked Down	600 lbs	861841KD	355.19	266.40
Welded	700 lbs	881841	309.74	232.30

Knockdown version may ship UPS dimensional rates

5345

ENERPAC Cylinders

- Equipped with hardened removable grooved saddles
- Unique GR2 bearing design, reduces wear, extending life
- Collar threads, plunger threads and base mounting holes enable easy fixturing
- Designed for use in all positions
- High strength alloy steel for durability
- Redesigned cylinder thread protector for ease of use
- Heavy-duty, pretensioned spring improves retraction speed
- Baked enamel finish for increased corrosion resistance
- CR-400 coupler and dust cap included on all models
- Plunger wiper reduces contamination, extending cylinder life



Type	Cylinder Effective Area	Stroke	Usage Oil Capacity	Weight	Model No	Order No.	Regular Price	SALE
General Purpose Cylinders	2.24	2.13	4.75	5.1 lbs	RC-102	300761	635.00	571.49
General Purpose Cylinders	2.24	6.13	13.7	9.8 lbs	RC-106	300822	775.00	697.45
General Purpose Cylinders	2.24	10.13	22.65	14 lbs	RC-1010	300860	1,023.00	920.67
General Purpose Cylinders	5.16	6.25	32.23	22 lbs	RC-256	301386	1,263.00	1,136.67

5327

WORKHOLDING

KANTWIST Standard "T" Handle Style Clamps

- Multi-purpose clamp that combines the best features of an ordinary "C" clamp and parallel clamps
- Free floating jaws adjusts to unparallel surfaces
- Copper plated jaws and screws are ideal for welding
- Built in "V" blocks is perfect for holding round stock
- Cantilever action provides 4:1 ratio



Maximum Opening Capacity	Open Throat Depth	Closed Throat Depth	Load Capacity	Order No.	Regular Price	SALE
1"	3/8"	1/2"	350 lbs		22.35	17.92
2"	1 1/8"	1 1/4"	800 lbs		311	24.87
3"	1 1/4"	1 3/4"	1500 lbs		50.95	40.72
6"	3 3/8"	5 1/4"	2500 lbs		135.45	106.37
12"	12"	7"	6000 lbs	440	241.41	193.14

1283

DESV 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		112.59	101.33
20"	4 3/4"	2,660 lbs		146.24	131.62
6"	4 3/4"	1330 lbs		55.59	50.07
8"	4 3/4"	2,660 lbs	SQ8	94.21	84.76

22787

MORSE CUTTING TOOLS



Collet Sets

in Wooden Tray



ER8					
Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
3	0.0429" - 0.1875"	Rego-Fix		157.59	141.85
9	0.5 mm - 5 mm	Rego-Fix		467.62	420.83
9	1 mm - 5 mm	Techniks	701198	313.12	250.50

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
13	0.5 mm - 7 mm	Rego-Fix		562.38	506.16
13	1 mm - 7 mm	Morse Cutting Tools		315.38	236.54
13	1 mm - 7 mm	Techniks		391.40	293.55
7	0.5 mm - 7 mm	Parlec		519.12	467.20
7	1/16" - 1/4"	Morse Cutting Tools		172.28	137.80
7	0.0429" - 0.25"	Rego-Fix		307.97	277.18
7	1/32" - 1/4"	Techniks	701199	213.21	159.90

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
10	0.5 mm - 10 mm	Parlec		363.59	327.20
10	0.5 mm - 10 mm	Rego-Fix		395.52	356.01
10	1/32" - 3/8"	Techniks		304.88	228.70
10	1 mm - 10 mm	Morse Cutting Tools		230.83	184.70
10	1 mm - 10 mm	Techniks		291.49	218.60
10	3/32" - 3/8"	Techniks		554.14	498.70
12	1/16" - 13/32"	Morse Cutting Tools		279.60	223.70
12	1/16" - 13/32"	Parlec		424.36	381.90
12	0.0429" - 0.4063"	Rego-Fix		500.58	450.54
8	3 mm - 10 mm	Techniks	04543MS	442.90	398.60

Quantity	Diameter Range	BrandName	Order No.	Price	SALE
11	2 mm - 13 mm	Techniks	04544MS	665.38	598.80
12	1/16" - 1/2"	Techniks		380.07	285.05
12	1 mm - 13 mm	Parlec		475.86	428.30
12	1 mm - 13 mm	Rego-Fix	1	469.68	422.74
12	2 mm - 13 mm	Morse Cutting Tools		269.85	215.90
12	2 mm - 13 mm	Techniks		398.61	299.00
12	5/32" - 1/2"	Techniks		725.12	652.60
14	3/32" - 1/2"	Parlec		545.90	491.30
7	0.085" - 0.5"	Rego-Fix	1	278.10	250.28
8	3/32", 1/8" - 1/2"	Morse Cutting Tools	26311	178.79	143.00

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
10	3/32", 1/8" - 5/8"	Morse Cutting Tools		248.71	199.00
14	3 mm - 16 mm	Techniks		936.27	842.60
14	7/32" - 3/4"	Techniks		908.46	817.60
15	1 mm - 16 mm	Parlec		579.89	521.90
15	2 mm - 16 mm	Rego-Fix	1	605.64	545.06
15	2 mm - 16 mm	Morse Cutting Tools		354.40	283.50
15	2 mm - 16 mm	Techniks		508.82	381.60
15	5/32" - 5/8"	Techniks		536.63	402.50
9	0.085" - 0.625"	Rego-Fix	112500002	365.65	329.11

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
12	1/8" - 13/16"	Morse Cutting Tools		331.65	265.30
12	0.085" - 0.8125"	Rego-Fix	1	516.03	464.44
18	2 mm - 20 mm	Parlec		711.73	640.60
18	2 mm - 20 mm	Rego-Fix		754.99	679.52
18	3 mm - 16 mm	Techniks		1,253.51	1,128.20
18	3 mm - 20 mm	Morse Cutting Tools		482.86	386.30
18	3 mm - 20 mm	Techniks		603.58	452.70
18	7/32" - 3/4"	Techniks		1,253.51	1,128.20
18	7/32" - 3/4"	Techniks		603.58	452.70
21	1/8" - 3/4"	Parlec	ER32SQ22	818.85	737.00

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
13	1/8" - 1"	Techniks		484.10	363.10
14	0.085" - 1"	Rego-Fix		766.32	689.72
14	2 mm - 16 mm	Techniks		1,222.61	1,100.35
15	1/8" - 1"	Morse Cutting Tools		520.27	416.20
15	3/8" - 1"	Techniks		1,135.06	1,021.55
23	3 mm - 26 mm	Rego-Fix	1	1,195.83	1,076.22
23	4 mm - 26 mm	Parlec		1,160.81	1,044.70
23	4 mm - 26 mm	Morse Cutting Tools		780.43	624.30
23	4 mm - 26 mm	Techniks	705000	854.90	641.20

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
10	3/32" - 3/8"	Techniks		1,305.01	1,174.50
12	10 mm - 34 mm	Rego-Fix		1,364.75	1,228.28
17	6 mm - 34 mm	Techniks	706000	1,208.19	906.10

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
15	1/8" - 9/16"	Techniks		292.52	263.30
21	1/4" - 9/16"	Techniks		408.91	368.00
29	1/8" - 9/16"	Techniks		565.47	508.90
33	1/16" - 9/16"	Techniks		642.72	578.45
8	1/8" - 9/16"	Techniks	016108S	156.56	140.90

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
17	1/4" - 3/4"	Techniks		423.33	381.00
21	1/8" - 3/4"	Techniks		523.24	470.90
33	1/4" - 3/4"	Techniks		820.91	738.80
41	1/8" - 3/4"	Techniks		1,020.73	918.70
9	1/4" - 3/4"	Techniks	016189S	224.54	202.10

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
17	1/8" - 3/8"	Techniks		331.66	298.50
21	1/16" - 3/8"	Techniks		408.91	368.00
9	1/8" - 3/8"	Techniks	016209S	176.13	158.50

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
14	3/64" - 1/4"	Techniks		272.95	245.70
7	1/16" - 1/4"	Techniks	016307S	136.99	123.30

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
15	1/8" - 1"	Techniks		552.08	496.90
41	3/8" - 1"	Techniks	0401041S	1,507.92	1,357.10

Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
11	1/8" - 3/4"	Techniks		400.67	360.60
22	1/8" - 3/4"	Techniks		798.25	718.40
43	1/8" - 3/4"	Techniks	0400843S	1,564.57	1,408.10

1093

MORSE CUTTING TOOLS

ER Collet Sets

in Wooden Tray



Quantity	Diameter Range	Order No.	Regular Price	SALE
12	1/16" - 13/32"	26310	279.60	223.70

Quantity	Diameter Range	Order No.	Regular Price	SALE
8	3/32", 1/8" - 1/2"	26311	178.79	143.00

Quantity	Diameter Range	Order No.	Regular Price	SALE
10	3/32", 1/8" - 5/8"	26312	248.71	199.00

Quantity	Diameter Range	Order No.	Regular Price	SALE
12	1/8" - 13/16"	26313	331.65	265.30

Quantity	Diameter Range	Order No.	Regular Price	SALE
15	1/8" - 1"	26314	520.27	416.20

30937

RAPIDHOLD™ 5C Collet Sets

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



Diameter Range	Quantity	Number of Stands Included	Opening Shape	Order No.	Regular Price	SALE
1/16" - 1 1/8"	18	1	Round		359.80	251.85
1/16" - 1 1/8"	35	1	Round		702.36	491.61
1/16" - 1 1/8"	69	1	Round	2308269	1346.76	942.72

24553

ER Collet Sets

in Wooden Tray



Quantity	Diameter Range	Order No.	Regular Price	SALE
12	2 mm - 13 mm	702200	398.61	299.00

Quantity	Diameter Range	Order No.	Regular Price	SALE
15	5/32" - 5/8"	702599	536.63	402.50

Quantity	Diameter Range	Order No.	Regular Price	SALE
18	7/32" - 3/4"	703999	603.58	452.70

Quantity	Diameter Range	Order No.	Regular Price	SALE
13	1 mm - 7 mm	701200	391.40	293.55

Quantity	Diameter Range	Order No.	Regular Price	SALE
10	1/32" - 3/8"	701699	304.88	228.70

Quantity	Diameter Range	Order No.	Regular Price	SALE
13	1/8" - 1"	704999	484.10	363.10

30936

WORLD CLASS QUALITY All Steel Bench Vises with Swivel Base

- Unbreakable all steel body
- Permanent pipe jaws and anvil
- 360° Swivel base with locks



Jaw Width	Jaw Height	Jaw Opening Capacity	Weight	Order No.	Regular Price	SALE
4"	2 1/4"	4"	17.00 lbs		137.44	96.20
5"	2 5/8"	5"	24.00 lbs		192.61	134.80
6"	3"	6"	32.00 lbs		227.13	159.00
8"	3 1/2"	8"	62.00 lbs	SV8	286.55	200.60

1196

KURT WORKHOLDING DX Series Crossover™ Vises

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



Model No	Jaw Width	Jaw Opening Capacity	Base Length	Base Width	Base Height	Weight	Order No.	Regular Price	SALE
DX4	4"	6.5"	12.5"	4.962"	2.250"	30 lbs		784.80	667.08
DX6	6"	9.08"	16.8"	7.391"	2.875"	67.8 lbs	DX6	803.70	683.15

1296

PALMGREN INC Angle Vises

- Cradle base has a 90° vertical scale in 1° graduations
- Quick setup at 0°, 30°, 45°, 60°, and 90° with positive pin stops
- Hand-tightened mechanism allows secure locking in all positions
- Base includes 1/2" shoulder slots for bolting to drill press



Jaw Width	Jaw Opening Capacity	Jaw Height	Base Length	Base Width	Weight	Order No.	Regular Price	SALE
2 1/2"	2 1/2"	1 1/8"	5 9/16"	6 3/8"	10 lbs		195.70	176.16
3 1/2"	3 1/2"	1 1/2"	7"	7 3/8"	17 lbs	AVC35	251.32	226.14

1423

RAPIDHOLD™ Low Profile Drill Press Vises

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



Jaw Width	Jaw Opening Capacity	Jaw Height	Weight	Order No.	Regular Price	SALE
3"	3"	1 1/8"	10 lbs		52.93	37.03
4"	4"	1 1/2"	15 lbs		72.37	50.62
6"	6"	2"	34 lbs		164.69	115.31
8"	8"	2"	54 lbs	8465	254.70	178.27

F.O.B. Warren, MI

1550

KURT WORKHOLDING Parallel Keepers 6" & 8"

- 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



For Use With	Order No.	Regular Price	SALE
All 6" Vises		110.00	93.25
All 8" Vises	KPS8000	142.00	121.00

1306

Jergens Forged Adjustable Clamps

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



Bolt Size	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	19101	56.24	50.82
5/8"	0-2 3/8"	2"	1 5/8"	3"	180 ft/lbs	10,600 lbs		70.10	63.09
3/4"	0-2 3/4"	2 1/2"	1 3/4"	3 3/4"	300 ft/lbs	16,000 lbs		106.40	95.76
7/8"	0-3 1/2"	3"	2 3/8"	4 1/4"	500 ft/lbs	21,800 lbs	19104	157.59	141.83

1256

KLEIN TOOLS Wireless Jobsite Speaker

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



Type	Watt-age	Color	ManufacturerNo	Order No.	Regular Price	SALE
Wireless	5 W	Orange, Black, Gray	AEPJ51	40000	72.12	64.89

28842

MACHINERY

JET Step Pulley Drill Presses

Features:

- Hinged metal belt and pulley cover coupled with quick adjustment motor mount allow rapid changing of spindle speed
- Rotating, 45° tilting, crank operated worktable with quick release clamp
- A 1/2" diameter external positive depth stop with three nut locking feature for quick adjustment
- Built in work light & 1/2" drill chuck included
- 2 Year Warranty



Order No.	Regular Price	SALE
354169	1,299.99	1,260.99
354170	1,899.99	1,842.99

F.O.B. Lavergne, TN • Ships by Truck JET BRAND PRODUCTS NOT AVAILABLE IN CANADA.

23526

PRM Heavy Duty 8" Bench Grinder

Features:

- 8 x 1 x 5 / 8" Wheel Size
- 3450 RPM
- 1/3HP, 115/230V, 1PH Motor
- Adjustable tool rest
- Adjustable spark arrestors
- Adjustable eye shields
- Locking toggle on/off switch
- Single port dust collection system
- One 36 grit and one 60 grit grinding wheel
- CSA listed, OSHA compliant
- Weight 63 lbs
- 1 Year parts warranty



Order No.	Regular Price	SALE
8	343.33	274.66

F.O.B. Warren, MI

6215

KALAMAZOO Industries Inc. 1" x 42" Belt Sander

Machine Specs:

- 1/3 HP, 110V, 1PH Motor
- 1,725 RPM
- 4" Drive Wheel
- 1,800 SPFM
- Weight: 35 lbs
- 1 Year Warranty



Order No.	Regular Price	SALE
1SM	437.75	415.86

F.O.B. Kalamazoo, MI • UPS Dimensional Weight shipping rates apply

23588

PRM 7" x 12" Horizontal/Vertical Portable Bandsaw**Medium Duty Non-Production****Features:**

- Hydraulic cylinder for adjustment of head pressure
- Horizontal and vertical cutting
- Four blade speeds
- Vise can miter 45° and 90°
- Blade tensioning adjustment, adjustable ball bearing blade guides
- Guarded automatic shut-off switch
- 1 Year warranty

Standard Equipment:

- One 3/4" saw blade
- Casters
- Coolant system
- Vertical table
- Adjustable stock stop
- Blade brush
- Hydraulic cylinder for head pressure adjustment
- Instructions & parts manual



Model No	Capacity	Blade Speeds	Blade Length	Blade Width	Horsepower	Voltage	Phase	Weight	Order No.	Regular Price	SALE
0AJ	7" x 12"	86, 132, 178, 260 SFPM	7' 9"	3/4"	3/4 hp	110 V/220 V	1 Phase	286 lbs	UC180AJ	1,663.90	998.34

F.O.B. Warren, MI • Ships By Truck

6168

PRM 9" x 16" Horizontal Wet-Cut Medium Duty Non-Production Bandsaw**Great for General Shop Use****Machine Specs:**

- Capacity: 9" x 16"
- Blade length: 10' x 1"
- Blade speeds: 82, 132, 178 & 235 SFPM
- Motor: 1.5HP, 1PH, 110/220V
- Weight: 625 lbs.
- One year parts warranty

Standard Equipment: Cast iron construction, 90° to 45° quick acting mitering vise, built-in wet coolant tank and pump, adjustable roller bearing, blade guides, full hydraulic downfeed regulator, and magnetic controls.



Model No	Capacity	Blade Speeds	Blade Length	Blade Width	Horsepower	Voltage	Phase	Weight	Order No.	Regular Price	SALE
THB916A	9" x 16"	82, 132, 178, 235 SFPM	114"	1"	1.5 hp	110 V/220 V	1 Phase	625 lbs	THB916A	4,385.70	2,631.42

F.O.B. Warren, MI • Ships by truck • Not CSA approved

6172

Sussex Tool & Supply

PRM PRO Universal Socket Toolset

- Perfect universal tool bit & socket set for unlimited applications
- Bits and socket made from chrome vanadium S2 Steel - S2 steel is stronger and longer lasting
- Universal socket has 40 spring adapted pins that auto-forms around fastener head or nut, ranging from 7-to 19mm or 9/32 to 11/16 standard
- Universal socket great helper for irregular shaped fastener bolts and nuts.
- Bits include: Pozi-drive, Phillips, slotted, hex, torx-star style, hex, and square.
- Set includes: 15pcs bits: PZ2 PH2 PH3 SL5 SL6 H3 H4 H5 SQ1 SQ2 T10 T15 T20 T25 T30, CRV universal socket with 40cr pins (grip-range 7-19mm, 9/32-11/16), 2" extension & reversable Ratchet."



Order No.	Regular Price	SALE
10018	20.55	14.40

Uniflute® Countersinks - High Speed Steel

- Designed for general purpose countersinking, chamfering or deburring
- Self piloting and completely chatterless
- No secondary burrs formed
- Steam homogeneous surface treatment (blackening) to prolong tool life and prevent galling
- M A Ford Series #61



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	100 Degrees			60 Degrees			120 Degrees			90 Degrees			82 Degrees		
			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
1/8"	1/8"	1-1/2"		11.31	9.61		11.31	9.61		11.31	9.61		11.31	9.61		11.31	9.61
3/16"	3/16"	1-1/2"		11.66	9.91		11.66	9.91		11.66	9.91		11.66	9.91		11.66	9.91
1/4"	1/4"	2"		12.16	10.33		12.16	10.33		12.16	10.33		12.16	10.33		12.16	10.33
3/8"	1/4"	2"		13.81	11.73		13.81	11.73		13.81	11.73		13.81	11.73		13.81	11.73
1/2"	1/4"	2"		16.83	14.30		16.83	14.30		16.83	14.30		16.83	14.30		16.83	14.30
5/8"	1/4"	2-3/4"		22.47	19.10		22.47	19.10		22.47	19.10		22.47	19.10		22.47	19.10
3/4"	1/2"	2-3/4"		32.81	27.88		32.81	27.88		32.81	27.88		32.81	27.88		32.81	27.88
1"	1/2"	2-3/4"	61191	54.65	46.46		54.65	46.46	61196	54.65	46.46		54.65	46.46		54.65	46.46
1-1/4"	1/2"	3"	-	-	-		106.91	90.88	-	-	-		106.91	90.88		106.91	90.88
1-1/2"	3/4"	3-1/2"	-	-	-		144.74	123.03	-	-	-		144.74	123.03		144.74	123.03
2"	3/4"	3-3/4"	-	-	-		259.85	220.87	-	-	-		259.85	220.87		259.85	220.87
2-1/2"	3/4"	5"	-	-	-		692.90	588.97	-	-	-		692.90	588.97		692.90	588.97
3"	3/4"	5-1/4"	-	-	-	61261	807.82	686.65	-	-	-	61271	807.82	686.65	61266	807.82	686.65

†Straight shank with tang drive. Standard angles may be modified from 55° to 119°.

9956

6 Flute Chatterless Countersinks - High Speed Steel

- Designed for economical, general purpose countersinking, chamfering or deburring
- Because of the multiple flute design, chip loads are generally smaller and even at maximum speeds, chatter-free machining is possible
- Steam homogeneous surface treatment (blackening) to prolong tool life and prevent galling
- M A Ford Series #79



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	60 Degrees			90 Degrees			100 Degrees			82 Degrees			120 Degrees		
			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
1/8"	1/8"	1-1/2"		10.82	9.20		10.82	9.20		10.82	9.20		10.82	9.20		10.82	9.20
3/16"	3/16"	1-1/2"		11.85	10.08		11.85	10.08		11.85	10.08		11.85	10.08		11.85	10.08
1/4"	1/4"	2"		12.00	10.22		12.00	10.22		12.00	10.22		12.00	10.22		12.00	10.22
5/16"	1/4"	2"		14.31	12.15		14.31	12.15		14.31	12.15		14.31	12.15		14.31	12.15
3/8"	1/4"	2"		14.85	12.58		14.85	12.58		14.85	12.58		14.85	12.58		14.85	12.58
1/2"	3/8"	2"		18.33	15.59		18.33	15.59		18.33	15.59		18.33	15.59		18.33	15.59
5/8"	3/8"	2-1/4"		26.47	22.47		26.47	22.47		26.47	22.47		26.47	22.47		26.47	22.47
3/4"	1/2"	2-3/4"		36.29	30.86		36.29	30.86		36.29	30.86		36.29	30.86		36.29	30.86
7/8"	1/2"	2-3/4"		49.81	42.37		49.81	42.37		49.81	42.37		49.81	42.37		49.81	42.37
1"	1/2"	2-3/4"		55.46	47.09		55.46	47.09		55.46	47.09		55.46	47.09		55.46	47.09
1-1/4"	1/2"	3"		84.97	72.26		84.97	72.26		84.97	72.26		84.97	72.26		84.97	72.26
1-1/2"	3/4"	3-1/2"		121.75	103.49		121.75	103.49		121.75	103.49		121.75	103.49		121.75	103.49
2"	3/4"	3-3/4"		206.54	175.59		206.54	175.59	79336	206.54	175.59		206.54	175.59	79341	206.54	175.59
2-1/2"	3/4"	5"		534.69	454.52		534.69	454.52	-	-	-		534.69	454.52	-	-	-
3"	3/4"	5-1/4"	79361	736.20	625.80	79371	736.20	625.80	-	-	-	79366	736.20	625.80	-	-	-

†Straight shank with tang drive.

9918

Prices Effective October 1 through December 31, 2025

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