

MEUNIER TOOLS



**GET BIG
SAVINGS**
ON TOP BRANDS

PG. 20

CRESCENT



**150 Pc. Mechanic's
Tool Set**

\$213.25

PG. 35

NOGA
SIMPLY SOPHISTICATED



Dial Gage Holder

UP TO
15% OFF

PG. 36

PROCHECK



1/8" Steel Parallel Set

\$116.44

PG. 27

PYRAMEX



Lens Cleaning

UP TO
30% OFF

PG. 35

Mitutoyo



**500-196-32
Electronic Caliper**

\$255.83

PG. 9

MORSE
CUTTING TOOLS



**Single Flute
Countersinks**

UP TO
30% OFF

PRICES EFFECTIVE OCTOBER 1, 2026 – DECEMBER 31, 2026



90° Indexable End Mills

- For shoulder milling, slotting and countersinking
- Industry standard cutters and inserts for economy and high quality



APKT 1604							
Overall Length (OAL)	Cutting Item Count (CICT)	Connection Diameter Machine Side (DCONMS)	Cutting Diameter (DC/DCX)	Order No.	Regular Price	SALE	
4-1/2"	2	1"	1"	0979265	317.24	237.93	
5-3/8"	4	1"	1-1/2"	0979268	403.76	302.82	

APKT 1003							
Overall Length (OAL)	Cutting Item Count (CICT)	Connection Diameter Machine Side (DCONMS)	Cutting Diameter (DC/DCX)	Order No.	Regular Price	SALE	
3"	1	1/2"	3/8"	0979270	197.75	148.32	
3-1/4"	2	5/8"	5/8"	0979272	238.95	179.21	
4"	3	3/4"	3/4"	0979274	288.40	216.30	
4-1/2"	4	1"	1"	0979278	346.08	259.56	
4-1/2"	4	3/4"	7/8"	0979276	304.88	228.66	
5"	5	1"	1-1/4"	0979280	411.99	308.99	
7-7/8"	3	3/4"	7/8"	0979277	379.05	284.28	
7-7/8"	3	3/4"	3/4"	0979275	350.21	262.65	
7-7/8"	2	5/8"	5/8"	0979273	304.88	228.66	
7-7/8"	4	1"	1-1/2"	0979282	477.92	358.44	
7-7/8"	5	1"	1-1/4"	0979281	473.80	355.35	
7-7/8"	4	1"	1"	0979279	416.12	312.09	

ADKT 1505							
Overall Length (OAL)	Cutting Item Count (CICT)	Connection Diameter Machine Side (DCONMS)	Cutting Diameter (DC/DCX)	Order No.	Regular Price	SALE	
4-1/2"	2	1"	1"	0979286	325.47	244.10	
5"	3	1"	1-1/4"	0979288	354.31	265.73	
5-3/8"	4	1"	1-1/2"	0979290	399.63	299.73	
7-7/8"	3	1"	1-1/4"	0979289	403.76	302.82	

12421



90° Indexable End Mills

Use XNEX Inserts

- Suitable for shoulder milling, surface milling for roughing
- Weldon style shank
- Uses XNEX 6-edged inserts



Cutting Diameter (DC/DCX)	Cutting Item Count (CICT)	Overall Length (OAL)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE	
3/4"	2	4-1/2"	XNEX 040304	0979224	370.79	278.10	
1"	4	4-1/2"	XNEX 040304	0979225	411.99	308.99	
2"	4	5"	XNEX 080608	0979228	514.99	386.25	

3857



90° Face Mills

- 90° Mills for shoulder milling, slotting and countersinking
- Industry standard cutters and inserts for economy and high quality
- Uses APKT / ADKT inserts



ADKT 1505							
Cutting Diameter Maximum (DCX)	Cutting Item Count (CICT)	Connection Diameter Machine Side (DCONMS)	Functional Length (LF)	Order No.	Regular Price	SALE	
2"	4	3/4"	1.57"	0979283	416.12	312.09	
2-1/2"	5	3/4"	1.57"	0979285	440.83	330.62	
3"	6	1"	1.97"	0979284	585.03	438.77	

APKT 1604							
Cutting Diameter Maximum (DCX)	Cutting Item Count (CICT)	Connection Diameter Machine Side (DCONMS)	Functional Length (LF)	Order No.	Regular Price	SALE	
2"	4	3/4"	1.57"	0979262	420.24	315.18	
2-1/2"	5	3/4"	1.57"	0979263	444.96	333.72	

3860



Cut Off Blades

- Positive stop cut-off blades - "F" style
- Positive blade design creates a strengthened clamping force for higher stability while machining
- For use on conventional or CNC machines
- Uses "MEGFN" style inserts



Overall Height (OAH)	Cutting Width Minimum (CWN)	Cutting Depth Maximum (CDX)	Body Width (WB)	Order No.	Regular Price	SALE	
1.25"	0.161"	4"	1/8"	0979382	123.75	86.62	
1.25"	0.079"	2"	0.062"	0979380	123.75	86.62	
1.03"	0.079"	2"	0.062"	0979378	110.74	77.52	
1.25"	0.122"	4"	0.094"	0979381	123.75	86.62	
1.03"	0.122"	3"	0.094"	0979379	110.74	77.52	
0.75"	0.079"	1.5"	0.062"	0979377	110.74	77.52	

61446



Steel Boring Bars

STFC Style

- Positive 60°
- Uses TCMT style inserts



Tool Type	Minimum Bore Diameter (DMIN)	Overall Length (OAL)	Order No.	Regular Price	SALE	
Boring Bar	1.25"	12"	0979118	259.56	207.65	

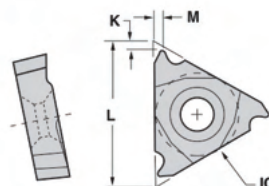
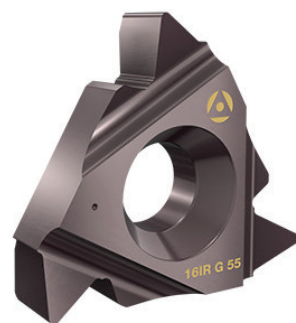
2610



Laydown LT

55 & 60 Degree Partial Profile Threading

- 3/8" IC
- External and Internal
- Right Hand and Left Hand



Thread Form Type (THFT)	Insert Length (INSL)	Corner Radius (RE)	Threads per Inch Minimum (TPIN)	Threads per Inch Maximum (TPIX)	Thread Pitch Minimum (TPN)	Coating	AC22A			C22			GP50A		
							Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
VP55	0.649"	0.002"	16	48	0.5 mm	TiAlN	1269037	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.002"	16	48	0.5 mm	TiAlN	1269039	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.002"	16	48	0.5 mm	TiN	-	-	-	-	-	-	2450465	28.56	20.72
VP55	0.649"	0.0027"	8	48	0.5 mm	TiAlN	1269040	28.56	20.72	-	-	-	-	-	-
-	0.63"	0.003"	8	48	0.02 mm	Uncoated	-	-	-	2449122	22.96	16.63	-	-	-
VP55	0.649"	0.0027"	8	48	0.5 mm	TiN	-	-	-	-	-	-	2449478	28.56	20.72
VP60	0.649"	0.002"	8	48	0.5 mm	TiAlN	0574241	28.56	20.10	-	-	-	-	-	-
VP55	0.649"	0.0091"	8	14	1.75 mm	TiAlN	1455622	28.56	20.72	-	-	-	-	-	-
VP55	0.649"	0.0091"	8	14	1.75 mm	TiN	-	-	-	-	-	-	2449419	28.56	20.72
VP60	0.649"	0.0051"	8	14	1.75 mm	TiAlN	1269041	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.0051"	8	14	1.75 mm	Uncoated	-	-	-	2469358	22.96	16.63	-	-	-
VP60	0.649"	0.0051"	8	14	1.75 mm	TiN	-	-	-	-	-	-	2449399	28.56	20.72
VP55	0.649"	0.0024"	16	48	0.5 mm	TiAlN	1268764	28.56	20.72	-	-	-	-	-	-
VP55	0.649"	0.0024"	16	48	0.02 mm	TiN	-	-	-	-	-	-	2478043	28.56	20.72
VP60	0.649"	0.0029"	16	48	0.5 mm	TiAlN	1455003	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.003"	16	48	0.5 mm	Uncoated	-	-	-	2411017	22.96	16.63	-	-	-
VP60	0.649"	0.0029"	16	48	0.5 mm	TiN	-	-	-	-	-	-	2485948	28.56	20.72
VP55	0.649"	0.0027"	8	48	0.5 mm	TiAlN	1268765	28.56	20.72	-	-	-	-	-	-
-	0.63"	0.003"	8	48	0.02 mm	Uncoated	-	-	-	2449132	22.96	16.63	-	-	-
VP55	0.649"	0.0027"	8	48	0.5 mm	TiN	-	-	-	-	-	-	2480724	28.56	20.72
VP60	0.649"	0.0031"	8	48	0.5 mm	TiAlN	0438983	28.21	20.72	-	-	-	-	-	-
VP60	0.649"	0.0031"	8	48	0.5 mm	TiN	-	-	-	-	-	-	2485946	28.56	20.72
VP55	0.649"	0.0091"	8	14	1.75 mm	TiAlN	1268766	28.56	20.72	-	-	-	-	-	-
VP55	0.649"	0.0091"	8	14	1.75 mm	TiN	-	-	-	-	-	-	2450446	28.56	20.72
VP60	0.649"	0.0087"	8	14	1.75 mm	TiAlN	1268767	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.0087"	8	14	1.75 mm	Uncoated	-	-	-	2449319	22.96	16.63	-	-	-
VP60	0.649"	0.0087"	8	14	1.75 mm	TiN	-	-	-	-	-	-	2449466	28.56	20.72
VP60	0.649"	0.002"	16	48	0.5 mm	TiAlN	1268869	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.002"	16	48	0.5 mm	TiN	-	-	-	-	-	-	2482177	28.56	20.72
VP55	0.649"	0.0027"	8	48	0.5 mm	TiAlN	1268870	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.002"	8	48	0.5 mm	TiAlN	1268871	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.002"	8	48	0.5 mm	TiN	-	-	-	-	-	-	2468121	28.56	20.72
VP55	0.649"	0.0079"	8	14	1.75 mm	TiAlN	1268872	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.0051"	8	14	1.75 mm	TiAlN	1268873	28.56	20.72	-	-	-	-	-	-
VP55	0.649"	0.002"	16	48	0.5 mm	TiN	-	-	-	-	-	-	2449281	28.56	20.72
VP60	0.649"	0.0029"	16	48	0.5 mm	TiAlN	1455605	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.0031"	16	48	0.5 mm	TiN	-	-	-	-	-	-	2468116	28.56	20.72
VP55	0.649"	0.0028"	8	48	0.5 mm	TiAlN	1268678	28.56	20.72	-	-	-	-	-	-
VP55	0.649"	0.0027"	8	48	0.5 mm	TiN	-	-	-	-	-	-	2482967	28.56	20.72
VP60	0.649"	0.0024"	8	48	0.5 mm	TiAlN	1455597	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.0024"	8	48	0.5 mm	TiN	-	-	-	-	-	-	2482971	28.56	20.72
VP60	0.649"	0.0087"	8	14	1.75 mm	TiAlN	1455596	28.56	20.72	-	-	-	-	-	-
VP60	0.649"	0.0087"	8	14	1.75 mm	TiN	-	-	-	-	-	-	2468128	28.56	20.72

60690



Cutting Tools



duMont® Keyway Broach Sets

- Now you can make precision holes or keyways in seconds... a few at a time or production quantities... by a simple push-through broaching operation using a hand operated arbor press or hydraulic press
- All sets furnished in handsome varnished wood box come complete with precision broaches, slotted bushings, and necessary shims
- Set No. 00 - the most common keyway combinations for small keyways and bores. 3 broaches & 5 bushings = 15 combinations



Bushings	Style	Order No.	Regular Price	SALE
1/4 5/16 3/8 7/16 1/2	A	0433499	657.19	591.47

12683



Screw Machine Drills

Fractional Sizes - High Speed Steel • 135° Split Point

- Manufactured to NAS 907 Type C Aircraft specifications
- Ideal for medium duty portable or machine drilling in low alloys and stainless steels
- Chicago-Latrobe List #159



Chicago-Latrobe						
Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Flute Length	Overall Length (OAL)	Order No.	Regular Price	SALE
3/64"	0.0469"	1/2"	1-3/8"	0281532	5.17	3.61
1/16"	0.0625"	5/8"	1-5/8"	0281533	5.21	3.64
5/64"	0.0781"	11/16"	1-11/16"	0281534	5.25	3.68
3/32"	0.0938"	3/4"	1-3/4"	0281535	5.26	3.68
7/64"	0.1094"	13/16"	1-13/16"	0281536	5.28	3.70
1/8"	0.125"	7/8"	1-7/8"	0281537	5.29	3.71
9/64"	0.1406"	15/16"	1-15/16"	0281538	5.64	3.95
5/32"	0.1563"	1"	2-1/16"	0281539	5.82	4.07
11/64"	0.1719"	1-1/16"	2-1/8"	0281541	5.94	4.16
3/16"	0.1875"	1-1/8"	2-3/16"	0281542	6.24	4.37
13/64"	0.2031"	1-3/16"	2-1/4"	0281543	6.82	4.77
7/32"	0.2188"	1-1/4"	2-3/8"	0281544	7.99	5.60
15/64"	0.2344"	1-5/16"	2-7/16"	0281545	8.34	5.84
17/64"	0.2656"	1-7/16"	2-5/8"	0281547	9.88	6.92
9/32"	0.2813"	1-1/2"	2-11/16"	0281549	10.39	7.27
19/64"	0.2969"	1-9/16"	2-3/4"	0281550	12.21	8.54
5/16"	0.3125"	1-5/8"	2-13/16"	0281551	12.56	8.79
21/64"	0.3281"	1-11/16"	2-15/16"	0281552	14.00	9.80
11/32"	0.3438"	1-11/16"	3"	0281553	15.36	10.75
23/64"	0.3594"	1-3/4"	3-1/16"	0281554	17.40	12.18
3/8"	0.375"	1-13/16"	3-1/8"	0281555	18.27	12.80
25/64"	0.3906"	1-7/8"	3-1/4"	0281556	20.76	14.53
13/32"	0.4063"	1-15/16"	3-5/16"	0281558	21.60	15.12
27/64"	0.4219"	2"	3-3/8"	0281559	23.86	16.70
7/16"	0.4375"	2-1/16"	3-7/16"	0281560	24.12	16.88
29/64"	0.4531"	2-1/8"	3-9/16"	0281561	28.87	20.20
15/32"	0.4688"	2-1/8"	3-5/8"	0281562	30.46	21.32
31/64"	0.4844"	2-3/16"	3-11/16"	0281563	31.40	21.98
1/2"	0.5"	2-1/4"	3-3/4"	0281564	31.70	22.19
1/4" E	0.25"	1-3/8"	2-1/2"	0281546	8.75	6.13

12722



MORSE Straight Flute Hand Taps - Imperial

Ground Thread High Speed Steel - Plug

- Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials.



Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Thread Tolerance Class (TCTR)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Overall Length (OAL)	Connection Diameter Machine Side (DCONMS)	Chamfer	Order No.	Regular Price	SALE
#4	40	H2	3	9/16"	1-7/8"	0.141"	Plug	1030518	13.28	10.59
#6	32	H3	3	11/16"	2"	0.141"	Plug	1030528	9.98	7.49
#8	32	H3	4	3/4"	2-1/8"	0.168"	Plug	1030536	10.01	7.50
#10	24	H3	4	7/8"	2-3/8"	0.194"	Plug	1030544	11.23	8.43
#10	32	H3	4	7/8"	2-3/8"	0.194"	Plug	1030551	12.08	9.06
1/4"	28	H3	4	1"	2-1/2"	0.255"	Plug	1030217	11.03	8.27
1/4"	20	H3	4	1"	2-1/2"	0.255"	Plug	1030210	10.71	8.04
5/16"	18	H3	4	1-1/8"	2-23/32"	0.318"	Plug	1030221	13.62	10.22
5/16"	24	H3	4	1-1/8"	2-23/32"	0.318"	Plug	1030225	13.62	10.22
3/8"	16	H3	4	1-1/4"	2-15/16"	0.381"	Plug	1030230	15.32	11.49
3/8"	24	H3	4	1-1/4"	2-15/16"	0.381"	Plug	1030235	15.32	11.49
1/2"	20	H3	4	1-21/32"	3-3/8"	0.367"	Plug	1030249	36.22	27.16
1/2"	13	H3	4	1-21/32"	3-3/8"	0.367"	Plug	1030245	29.00	23.15
5/8"	11	H3	4	1-13/16"	3-13/16"	0.48"	Plug	1030257	60.00	45.01
3/4"	10	H3	4	2"	4-1/4"	0.59"	Plug	1030264	84.49	63.36
7/8"	9	H4	4	2-7/32"	4-11/16"	0.697"	Plug	1030270	108.52	86.63
1"	8	H4	4	2-1/2"	5-1/8"	0.8"	Plug	1030274	144.12	108.09
1-1/8"	7	H4	4	2-9/16"	5-7/16"	0.896"	Plug	1030278	238.17	178.63
1-1/4"	7	H4	4	2-9/16"	5-3/4"	1.021"	Plug	1030280	314.36	250.93
1-3/8"	6	H4	4	3"	6-1/16"	1.108"	Plug	1030282	383.44	306.08
1-1/2"	6	H4	4	1-1/2"	6-3/8"	1.233"	Plug	1030284	457.12	364.89

36902



MORSE Straight Flute Hand Taps - Metric

Ground Thread - High Speed Steel - Plug

- Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials.



Thread Diameter Size (TDZ)	Thread Pitch (TP)	Thread Tolerance Class (TCTR)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Overall Length (OAL)	Coating	Order No.	Regular Price	SALE
M3	0.5 mm	D3	3	5/8"	1-15/16"	Uncoated	1031023	18.88	15.06
M4	0.7 mm	D4	4	3/4"	2-1/8"	Uncoated	1031025	17.61	13.22
M5	0.8 mm	D4	4	7/8"	2-3/8"	Uncoated	1031027	14.92	11.20
M6	1 mm	D5	4	1"	2-1/2"	Uncoated	1031028	17.81	13.36
M8	1.25 mm	D5	4	1-1/8"	2-23/32"	Uncoated	1031030	16.21	12.17
M10	1.5 mm	D6	4	1-1/4"	2-15/16"	Uncoated	1031031	31.18	23.38
M12	1.75 mm	D6	4	1-21/32"	3-3/8"	Uncoated	1031032	40.73	32.53
M14	2 mm	D7	4	1-21/32"	3-19/32"	Uncoated	1031033	61.17	45.88
M16	2 mm	D7	4	1-13/16"	3-13/16"	Uncoated	1031034	68.09	54.36
M18	1.5 mm	D6	4	1-13/16"	4-1/32"	Uncoated	1031046	89.27	71.27
M20	2.5 mm	D7	4	2"	4-15/32"	Uncoated	1031036	121.49	91.13
M22	2.5 mm	D7	4	2-7/32"	4-11/16"	Uncoated	1031049	126.47	100.95
M24	3 mm	D8	4	2-7/32"	4-29/32"	Uncoated	1031051	161.33	128.77

37164



Cutting Tools



4 Flute TuffCut® XR HP ALtima® Coated End Mill

Center Cutting • Variable Helix • Fractional Sizes

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



Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Square			0.015"			0.03"			0.06"			0.09"		
						Regular Price	SALE		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/16"	0.0625"	1/8"	1/8"	1-1/2"	0328970	78.65	62.92	-	-	-	-	-	-	-	-	-	-	-	-	-
3/32"	0.09375"	1/8"	3/16"	1-1/2"	0328971	71.75	57.40	-	-	-	-	-	-	-	-	-	-	-	-	-
1/8"	0.125"	1/8"	1/8"	1-1/2"	0328972	50.97	40.78	0328989	53.41	42.73	-	-	-	-	-	-	-	-	-	-
1/8"	0.125"	1/8"	3/8"	1-1/2"	0329969	54.19	43.36	0328990	56.60	45.28	-	-	-	-	-	-	-	-	-	-
5/32"	0.15625"	3/16"	7/16"	2"	0328974	76.54	61.24	0328992	80.18	64.15	-	-	-	-	-	-	-	-	-	-
5/32"	0.15625"	1/4"	1/4"	2"	-	-	-	0328997	98.01	78.41	-	-	-	-	-	-	-	-	-	-
5/32"	0.15625"	3/16"	3/16"	2"	0328973	72.13	57.71	0329981	75.71	60.56	-	-	-	-	-	-	-	-	-	-
3/16"	0.1875"	3/16"	7/16"	2"	0329970	74.93	59.95	0328995	78.54	62.83	0328996	78.54	62.83	-	-	-	-	-	-	-
3/16"	0.1875"	3/16"	3/16"	2"	0328975	70.55	56.43	0328993	73.70	58.95	0328994	73.70	58.95	-	-	-	-	-	-	-
7/32"	0.21875"	1/4"	7/16"	2-1/2"	0328977	99.67	79.73	0329983	104.05	83.24	0329984	104.05	83.24	-	-	-	-	-	-	-
7/32"	0.21875"	1/4"	1/4"	2"	-	-	-	0329982	98.01	78.41	-	-	-	-	-	-	-	-	-	-
1/4"	0.25"	1/4"	1/4"	2"	0328978	86.17	68.94	0328999	89.99	71.99	0329985	89.99	71.99	-	-	-	-	-	-	-
1/4"	0.25"	1/4"	1/2"	2-1/2"	0329971	91.73	73.39	0329000	95.66	76.52	0329001	95.66	76.52	-	-	-	-	-	-	-
9/32"	0.28125"	5/16"	5/8"	2-1/2"	0328979	125.55	100.44	0329002	131.19	104.96	0329986	131.19	104.96	-	-	-	-	-	-	-
5/16"	0.3125"	5/16"	13/16"	2-1/2"	0329972	125.55	100.44	0329005	131.19	104.96	0329006	131.19	104.96	-	-	-	-	-	-	-
5/16"	0.3125"	5/16"	5/16"	2"	0328980	117.98	94.39	0329003	123.52	98.81	0329004	123.52	98.81	-	-	-	-	-	-	-
11/32"	0.34375"	3/8"	13/16"	2-1/2"	0328981	151.07	120.86	0329987	158.66	126.92	0329988	158.66	126.92	-	-	-	-	-	-	-
3/8"	0.375"	3/8"	7/8"	2-1/2"	0329973	151.07	120.86	0329010	158.66	126.92	0329011	158.66	126.92	-	-	-	-	-	-	-
3/8"	0.375"	3/8"	3/8"	2"	0328982	141.86	113.48	0329008	149.11	119.29	0329009	149.11	119.29	-	-	-	-	-	-	-
13/32"	0.40625"	7/16"	15/16"	2-3/4"	0329974	194.49	155.60	0329989	203.70	162.96	0329990	203.70	162.96	-	-	-	-	-	-	-
7/16"	0.4375"	7/16"	1"	2-3/4"	0328984	194.49	155.60	0329012	203.70	162.96	0329013	203.70	162.96	-	-	-	-	-	-	-
7/16"	0.4375"	7/16"	7/16"	2-1/2"	0328983	182.98	146.38	0329991	191.35	153.08	0329992	191.35	153.08	-	-	-	-	-	-	-
15/32"	0.46875"	1/2"	1"	3"	0329975	247.14	197.71	0329993	259.52	207.62	0329994	259.52	207.62	-	-	-	-	-	-	-
1/2"	0.5"	1/2"	1-1/4"	3"	0329059	259.52	207.62	0330228	272.64	218.11	0329060	272.64	218.11	0329061	272.64	218.11	0330229	272.64	218.11	-
1/2"	0.5"	1/2"	1"	3"	0329976	247.14	197.71	0329017	259.52	207.62	0329018	259.52	207.62	0329047	259.52	207.62	0330101	259.52	207.62	-
1/2"	0.5"	1/2"	1/2"	2-1/2"	0328985	232.01	185.61	0329015	243.92	195.13	0329016	243.92	195.13	-	-	-	-	-	-	-
9/16"	0.5625"	9/16"	1-1/8"	3-1/2"	0329977	422.51	338.00	0329995	438.42	350.74	0329996	438.42	350.74	-	-	-	-	-	-	-
5/8"	0.625"	5/8"	1-1/4"	3-1/2"	0329978	466.38	373.10	0329052	490.22	392.18	0329020	490.22	392.18	0330103	490.22	392.18	0330104	490.22	392.18	-
5/8"	0.625"	5/8"	5/8"	3"	0328986	438.42	350.74	0330168	462.34	369.87	0329019	462.34	369.87	-	-	-	-	-	-	-
3/4"	0.75"	3/4"	1-1/2"	4"	0329979	685.61	548.49	0329053	721.48	577.18	0329023	721.48	577.18	0329048	721.48	577.18	0330106	721.48	577.18	-
3/4"	0.75"	3/4"	3/4"	3"	0328987	641.75	513.39	0330169	677.57	542.05	0329998	677.57	542.05	-	-	-	-	-	-	-
1"	1"	1"	1-1/2"	4"	0329980	1044.34	835.48	0329054	1092.17	873.74	0329024	1092.17	873.74	0330107	1092.17	873.74	0330108	1092.17	873.74	-
1"	1"	1"	1"	4"	0328988	980.55	784.43	0330170	1024.42	819.53	0330001	1024.42	819.53	-	-	-	-	-	-	-

12834



Replacement Blades - Style B



Blade Type	Work Direction	Hand Operation	Blade Material	Order No.	Regular Price	SALE
B10C	Clockwise	Right Hand	Carbide	0558492	13.90	9.73
B10P	Clockwise	Right Hand	High Speed Steel TiN Coated	0558495	5.92	4.14
B10	Clockwise	Right Hand	High Speed Steel	0558489	3.50	2.45
B11	Clockwise	Right Hand	High Speed Steel	0558497	3.07	2.14
B12	Clockwise	Right Hand	High Speed Steel	0558498	2.97	2.07
B25	Clockwise	Right Hand	High Speed Steel	0558503	3.35	2.34
B30	Clockwise	Right Hand	High Speed Steel	0558505	4.17	2.93
B50	Clockwise	Right Hand	High Speed Steel Carbide Tipped	0558509	10.08	7.06
B60	Clockwise	Right Hand	High Speed Steel	0558510	6.47	4.52
B20C	Clockwise & Counter-Clockwise	Right Hand	Carbide	0558501	13.90	9.73
B20P	Clockwise & Counter-Clockwise	Right Hand	High Speed Steel TiN Coated	0558502	5.82	4.07
B20	Clockwise & Counter-Clockwise	Right Hand	High Speed Steel	0558500	3.86	2.70
B32	Clockwise & Counter-Clockwise	Right Hand	High Speed Steel	0558507	4.61	3.22
B70	Straight	Right Hand	High Speed Steel Carbide Tipped	0558511	15.16	10.61

6237



A Brand® AE-BD-H High Performance Carbide Ball Nose End Mills

Stub Length - 2 Flute

- Variable Negative Spiral Gash - Controls chipping while securing cutting quality by making the negative angle weaker near the outer periphery; chipping resistance is enhanced in combination with the weaker helix angle specification
- Superior Ball R Precision - Secures stable R accuracy across 180°
- Thickness at Center - Thickening of the center core to prevent deformation of the ball tip and improve control of chipping
- Superior Shank Accuracy - Supports h4 tolerance (0/-0.004)



Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Coating	Order No.	Regular Price	SALE
1/32"	0.0313"	1/4"	0.031"	1-1/2"	AlTiSiN	0385873	137.70	123.93
1/16"	0.0625"	1/4"	0.063"	1-1/2"	AlTiSiN	0385874	137.70	123.93
3/32"	0.0938"	1/4"	0.094"	1-1/2"	AlTiSiN	0385875	137.70	123.93
1/8"	0.125"	1/4"	1/8"	2"	AlTiSiN	0385876	137.70	123.93
3/16"	0.1875"	1/4"	0.188"	2-1/2"	AlTiSiN	0385877	145.59	131.03
1/4"	0.25"	1/4"	1/4"	3"	AlTiSiN	0385878	145.59	131.03
5/16"	0.3125"	5/16"	5/16"	3-1/2"	AlTiSiN	0385879	220.05	198.04
3/8"	0.375"	3/8"	3/8"	3-1/2"	AlTiSiN	0385880	265.61	239.05
1/2"	0.5"	1/2"	1/2"	4"	AlTiSiN	0385881	451.92	406.73

831



A Brand® - AT-1 Advanced Performance One Pass Carbide Thread-Mill

Helical Flute - Metric

- Unequal Spacing / Variable Lead Flute - For reduced vibration
- Right-Hand Cut & Left-Hand Helix Geometry - Increases tool stability
- EgiAs Coating - For exceptional wear resistance
- Ultra-Fine Grain Carbide - For high wear resistance and toughness



Thread Size	Thread Pitch (TP)	Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE
M6	0.75 mm	4.5 mm	6 mm	13.5 mm	75 mm	4	0381749	322.90	290.61
M6	1 mm	4.5 mm	6 mm	14 mm	75 mm	4	0381750	322.90	290.61
M8	1 mm	5.7 mm	6 mm	18 mm	75 mm	4	0381751	324.46	292.01
M8	1.25 mm	5.7 mm	6 mm	18.75 mm	75 mm	4	0381758	324.46	292.01
M10	1 mm	7.7 mm	8 mm	22 mm	85 mm	4	0381759	353.11	317.80
M10	1.25 mm	7.7 mm	8 mm	22.5 mm	85 mm	4	0381761	353.11	317.80
M10	1.5 mm	7.7 mm	8 mm	24 mm	85 mm	4	0381762	353.11	317.80
M12	1 mm	9.7 mm	10 mm	26 mm	100 mm	5	0381763	425.22	382.70
M12	1.25 mm	9.7 mm	10 mm	27.5 mm	100 mm	5	0381771	425.22	382.70
M12	1.5 mm	9.7 mm	10 mm	27 mm	100 mm	5	0381772	425.22	382.70
M12	1.75 mm	9.7 mm	10 mm	28 mm	100 mm	5	0381773	425.22	382.70
M14	1.5 mm	10.7 mm	12 mm	31.5 mm	120 mm	5	0381774	642.03	577.82
M14	2 mm	9.7 mm	10 mm	32 mm	100 mm	5	0381775	425.22	382.70
M16	1.5 mm	13.7 mm	16 mm	36 mm	135 mm	5	0381776	1143.60	1029.24
M16	2 mm	11.7 mm	12 mm	36 mm	120 mm	5	0381777	642.03	577.82
M18	2.5 mm	11.7 mm	12 mm	42.5 mm	120 mm	5	0381778	642.03	577.82
M20	1.5 mm	15.7 mm	16 mm	43.5 mm	135 mm	5	0381779	1143.60	1029.24
M20	2.5 mm	13.7 mm	16 mm	45 mm	135 mm	5	0381780	1143.60	1029.24
M24	2 mm	19.7 mm	20 mm	52 mm	150 mm	6	0381781	1593.91	1434.52
M24	3 mm	19.7 mm	20 mm	54 mm	150 mm	6	0381782	1593.91	1434.52

4809



Cutting Tools



Solid Carbide Combined Drills & Countersinks-Plain Type

60, 82 & 90°

- Used for producing center holes in components or workpieces which require machining between centers



					60 Degrees			90 Degrees			82 Degrees		
Drill Bit Size / Cutting		Connection Diameter Machine		Overall	Regular			Regular			Regular		
Size	Diameter (DC)	Side (DCONMS)	Length (OAL)	Order No.	Price	SALE	Order No.	Price	SALE	Order No.	Price	SALE	
#00	1/8"	1/8"	1-1/2"	0217239	43.25	36.76	0217241	41.26	35.07	0217240	41.26	35.07	
#000	1/8"	1/8"	1-1/2"	0217236	53.56	45.53	0217238	53.56	45.53	0217237	53.56	45.53	
#0000	1/8"	1/8"	1-1/2"	0217233	73.09	62.13	0217235	73.09	62.13	0217234	73.09	62.13	
#00000	1/8"	1/8"	1-1/2"	0217230	77.81	66.14	0217232	77.81	66.14	0217231	77.81	66.14	
#0	1/8"	1/8"	1-1/2"	0217242	39.24	33.36	0217244	37.49	31.86	0217243	37.49	31.86	
#1	1/8"	1/8"	1-1/2"	0217245	39.24	33.36	0217247	37.49	31.86	0217246	37.49	31.86	
#2	3/16"	3/16"	2"	0217254	59.16	50.29	0217256	56.52	48.03	0217255	56.52	48.03	
#3	1/4"	1/4"	2"	0217257	78.81	66.99	0217259	75.22	63.94	0217258	75.22	63.94	
#4	5/16"	5/16"	2-1/8"	0217260	100.23	85.19	0217262	95.77	81.41	0217261	95.77	81.41	
#5	7/16"	7/16"	2-3/4"	0217263	156.31	132.86	0217266	149.27	126.88	0217265	149.27	126.88	
#6	1/2"	1/2"	3"	0217267	205.87	174.99	0217269	196.69	167.19	0217268	196.69	167.19	
#7	5/8"	5/8"	3-3/4"	0217270	459.77	390.81	0217272	439.17	373.30	0217271	439.17	373.30	
#8	3/4"	3/4"	4"	0217273	627.07	533.01	0217275	598.89	509.05	0217274	598.89	509.05	

12822



Spotting & Centering Drills

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

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



					118 Degrees		90 Degrees		
Size	Drill Bit Size / Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	1/8"	1-1/4"	0217444	11.84	10.07	0217449	38.81	32.98
1/8"	1/8"	1/8"	1-1/4"	0217448	38.81	32.98	0217446	11.84	10.07
3/16"	3/16"	3/16"	1-3/8"	0217450	12.87	10.93	0217455	34.55	29.37
3/16"	3/16"	3/16"	1-3/8"	0217454	34.55	29.37	0217452	12.87	10.93
1/4"	1/4"	1/4"	1-1/2"	0217456	14.18	12.05	0217461	35.60	30.27
1/4"	1/4"	1/4"	1-1/2"	0217460	35.60	30.27	0217458	14.18	12.05
5/16"	5/16"	5/16"	1-1/2"	0217462	16.11	13.69	0217467	38.16	32.44
5/16"	5/16"	5/16"	1-1/2"	0217466	38.16	32.44	0217464	16.11	13.69
3/8"	3/8"	3/8"	2"	0217474	18.27	15.53	0217476	18.27	15.53
3/8"	3/8"	3/8"	2"	0217478	45.92	39.03	0217479	45.92	39.03
7/16"	7/16"	7/16"	2"	0217490	48.59	41.30	0217491	48.59	41.30
7/16"	7/16"	7/16"	2"	0217486	24.61	20.92	0217488	24.61	20.92
1/2"	1/2"	1/2"	2"	0217442	53.37	45.36	0217440	30.14	25.62
1/2"	1/2"	1/2"	2"	0217438	30.14	25.62	0217443	53.37	45.36
9/16"	9/16"	9/16"	2"	0217498	44.88	38.15	0217503	59.85	50.88
9/16"	9/16"	9/16"	2"	0217502	59.85	50.88	0217500	44.88	38.15
5/8"	5/8"	5/8"	2-1/4"	0217480	49.84	42.36	0217485	65.79	55.92
5/8"	5/8"	5/8"	2-1/4"	0217484	65.79	55.92	0217482	49.84	42.36
3/4"	3/4"	3/4"	2-1/4"	0217472	95.77	81.41	0217470	69.33	58.93
3/4"	3/4"	3/4"	2-1/4"	0217468	69.33	58.93	0217473	95.77	81.41
7/8"	7/8"	7/8"	2-1/2"	0217492	84.94	72.20	0217497	112.46	95.59
7/8"	7/8"	7/8"	2-1/2"	0217496	112.46	95.59	0217494	84.94	72.20
1"	1"	1"	2-1/2"	0217504	108.61	92.32	0217506	108.61	92.32
1"	1"	1"	2-1/2"	0217508	144.94	123.20	0217509	144.94	123.20
1-1/4"	1-1/4"	1-1/4"	4"	0217516	212.72	180.81	0217518	212.72	180.81
1-1/4"	1-1/4"	1-1/4"	4"	0217520	280.81	238.69	0217521	280.81	238.69
1-1/2"	1-1/2"	1-1/2"	5"	0217510	331.76	281.99	0217512	331.76	281.99
1-1/2"	1-1/2"	1-1/2"	5"	0217514	438.06	372.36	0217515	438.06	372.36
1-3/4"	1-3/4"	1-3/4"	5-1/2"	0217522	500.32	425.26	0217527	659.30	560.41
1-3/4"	1-3/4"	1-3/4"	5-1/2"	0217526	659.30	560.41	0217524	500.32	425.26

7618



IMCO POW-R-FEED M936

Faster, Clog-Free Cutting Power

- Proprietary end geometries for extremely aggressive ramping and helical entry parameters
- Variable helix angle for excellent chip evacuation, long tool life
- Variable index for reduced chatter provides superior balance, super-stable performance
- Extra-fine cutting edges extend tool performance and allow the versatile tool also to be used in dynamic, high efficiency machining situations



Cutting Diameter (DC)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Connection Diameter Machine Side (DCONMS)	Order No.	0.09"			Order No.	1/8"			Order No.	0.19"			Order No.	1/4"		
					Regular Price	SALE			Regular Price	SALE			Regular Price	SALE			Regular Price	SALE	
3/8"	1/2"	2"	3/8"	-	-	-		750560A	231.90	185.51		-	-	-	-	-	-	-	-
3/8"	1-1/4"	3"	3/8"	-	-	-		750561A	263.03	210.42		-	-	-	-	-	-	-	-
3/8"	1-1/2"	3-1/2"	3/8"	-	-	-		750562A	289.84	231.87		-	-	-	-	-	-	-	-
1/2"	1"	3"	1/2"	-	-	-		228413A	332.26	265.80		-	-	-	-	-	-	-	-
1/2"	1-1/4"	3"	1/2"	-	-	-		239705A	344.05	275.24		750571A	349.85	279.87		-	-	-	-
1/2"	1-1/2"	3-1/2"	1/2"	-	-	-		750563A	368.13	294.50		750572A	376.49	301.20		-	-	-	-
1/2"	2"	4"	1/2"	-	-	-		750564A	420.59	336.48		750573A	428.72	342.97		-	-	-	-
5/8"	1-1/4"	3-1/2"	5/8"	-	-	-		750565A	651.81	521.44		-	-	-	-	-	-	-	-
5/8"	1-5/8"	3-1/2"	5/8"	750556A	706.33	565.07		750566A	709.93	567.94		750574A	719.59	575.67		-	-	-	-
3/4"	1"	3"	3/4"	750557A	885.82	708.65		750567A	889.41	711.52		750575A	902.02	721.62		750578A	904.26	723.41	
3/4"	1-5/8"	4"	3/4"	750558A	960.69	768.56		750568A	967.61	774.09		750576A	975.67	780.54		750579A	978.64	782.91	
3/4"	2-1/4"	5"	3/4"	750559A	1095.04	876.04		228425A	1096.16	876.93		750577A	1099.38	879.51		750580A	1101.59	881.27	
1"	1-5/8"	4"	1"	-	-	-		228426A	1493.07	1194.45		-	-	-	-	750581A	1515.43	1212.34	
1"	2"	4-1/2"	1"	-	-	-		750569A	1564.05	1251.24		-	-	-	-	750582A	1585.51	1268.41	
1"	2-5/8"	5"	1"	-	-	-		750570A	1839.91	1471.93		-	-	-	-	750583A	1861.24	1489.00	

61311



Single Flute Countersinks - Carbide

60, 82, 90, 100 & 120 Degree

- Produces a smoother finish
- Can be used when multi-flute countersinks chatter
- Carbide offers excellent wear resistance, heat resistance and rigidity
- Recommended for abrasive materials, difficult-to-drill materials and increased tool life in production applications



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	60 Degrees				82 Degrees				90 Degrees				100 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"	1037689	26.19	18.34		1037690	26.19	18.34		1037691	26.19	18.34		1037707	26.19	18.34		1037708	31.97	23.83	
3/16"	3/16"	2"	1037674	33.86	27.03		1037675	33.86	27.03		1037676	35.24	24.67		1037677	33.86	27.03		1037678	50.27	35.20	
1/4"	1/4"	2"	1037692	41.02	28.71		1037693	41.02	28.71		1037694	41.02	28.71		1037709	41.02	28.71		1037710	58.52	40.96	
3/8"	1/4"	2-1/2"	1037695	60.57	45.13		1037696	60.57	45.13		1037697	60.57	45.13		1037711	60.57	45.13		1037712	86.40	64.37	
1/2"	1/4"	2-1/2"	1037698	71.59	53.34		1037699	71.59	53.34		1037700	71.59	53.34		1037713	71.59	53.34		1037714	102.12	76.09	
5/8"	1/4"	2-1/2"	1037679	101.17	80.76		1037680	106.79	74.76		1037681	101.17	80.76		1037682	101.56	76.17		1037683	144.86	108.64	
3/4"	3/8"	3"	1037701	138.88	97.22		1037702	138.88	97.22		1037703	138.88	97.22		1037715	138.88	97.22		1037716	198.10	138.67	
1"	1/2"	3"	1037704	188.15	141.11		1037705	182.39	136.79		1037706	182.39	136.79		1037717	188.15	141.11		1037718	268.38	201.29	
1-1/4"	3/4"	3-1/2"	1037719	423.88	317.91		1037720	420.55	315.41		1037721	423.88	317.91		1037722	423.88	317.91		1037723	423.88	317.91	
1-1/2"	3/4"	3-1/2"	1037724	646.69	485.02		1037725	646.69	485.02		1037726	651.81	488.87		1037727	651.81	488.87		1037728	651.81	488.87	

61430



Cutting Tools



YT1200 Scraper

- Ideal for scraping, trimming and deburring almost all materials
- Includes: YT1000 handle and T80 double ended triangular scraper



Order No.	Regular Price	SALE
0558795	16.67	12.50

5843



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
0558658	44.39	33.29

726



ADJ SCRAPER T80

- Ideal for scraping, trimming and deburring almost all materials
- Includes: YT1000 handle and T80 double ended triangular scraper



Order No.	Regular Price	SALE
0558798	19.60	14.70

59755



SC Holder

- 12mm Anodized handle
- Knurled locking collar to control blade extension
- Holds: D50, D66, D75, D77 and T80 scrapers



For Use With	Type	Order No.	Regular Price	SALE
D50, D66, D75, D77, T80 Scrapers	Scraper Handle	0558762	18.24	13.68

729



S Promo Set

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



Order No.	Regular Price	SALE
0558718	28.49	21.36

725



Mini Ceramic Handle and Convexed Blade

Model CR1500

- Ideal for surface scraping and parting line deflashing
- Perfect for plastic materials and soft metals



Blade Type	Order No.	Regular Price	SALE
CR	0558645	37.91	28.43

723



Adjustable Ceramic Mini Scraper

Model CR4100

- Ideal for surface cleaning, trimming, deburring and parting line deflashing of almost all plastics
- Special blade design for safety



Order No.	Regular Price	SALE
0558650	46.45	34.85

2040



Keyway Burr Blades

- K Holder Blades



Blade Type	Order No.	Regular Price	SALE
N70K	0558737	14.52	10.16
N80K	0558739	10.64	7.45
N80K-M42	0558740	14.24	9.97
N90K	0558742	11.77	8.83

5812



Double Burr Blades

- Double Burr Blade
- Simultaneously removes burrs from both sides of sheet metal
- Range: 0-12mm
- For corners, use one blade only



Blade Type	Application	Order No.	Regular Price	SALE
N80-M42	Removes Burrs from Both Sides of Sheet Metal	0558741	14.24	9.97
N80	Removes Burrs from Both Sides of Sheet Metal	0558738	10.64	7.45

5804



D Holder

- D holder is designed to hold D50 and D66 blades
- A 3mm setscrew is holding the blade



For Use With	Type	Order No.	Regular Price	SALE
D50 and D66 Blades	D Blade Holder	0558673	11.45	8.60

5803



Ceramic Convexed Cera-Cut & Blades

- 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
0558646	62.41	46.82

728



Cutting Tools



2 Flute Single End Mills

High Speed Steel - Center Cutting

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



							Uncoated	
Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE	
1/8"	0.125"	3/8"	3/8"	2-5/16"	1022278	36.61	27.45	
3/16"	0.1875"	3/8"	7/16"	2-5/16"	1022279	34.30	25.73	
1/4"	0.25"	3/8"	1/2"	2-5/16"	1022280	50.75	38.07	
5/16"	0.3125"	3/8"	9/16"	2-5/16"	1022281	35.12	28.04	
3/8"	0.375"	3/8"	9/16"	2-5/16"	1022282	50.75	38.07	
7/16"	0.4375"	3/8"	13/16"	2-1/2"	1022283	46.78	37.35	
1/2"	0.5"	1/2"	1"	3"	1022285	44.46	35.48	
9/16"	0.5625"	1/2"	1-1/8"	3-1/8"	1022286	66.70	50.02	
5/8"	0.625"	5/8"	1-5/16"	3-7/16"	1022288	61.98	46.48	
3/4"	0.75"	3/4"	1-5/16"	3-9/16"	1022293	75.19	60.02	
7/8"	0.875"	3/4"	1-1/2"	3-3/4"	1022297	96.45	77.00	
1"	1"	3/4"	1-1/2"	3-3/4"	1022303	136.06	108.61	
1-1/8"	1.125"	3/4"	1-1/2"	3-7/8"	1022341	141.84	113.23	
1-1/4"	1.25"	3/4"	1-1/2"	3-7/8"	1022342	154.87	116.16	
1-3/8"	1.375"	3/4"	1-1/2"	3-7/8"	1022343	177.67	133.25	
1-1/2"	1.5"	3/4"	1-1/2"	3-7/8"	1022344	199.39	149.55	
1-3/4"	1.75"	3/4"	1-1/2"	3-7/8"	1022345	237.74	189.78	
2"	2"	1-1/4"	1-5/8"	4-1/2"	1022317	419.03	314.27	

821



Multi-Flute - Single End - End Mills

High Speed Steel - 4550-197

- List Number 4550 - Center Cutting
- List Number 1897 - Non-Center Cutting



						4550			1897		
Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE		Order No.	Regular Price	SALE
1/8"	0.125"	3/8"	3/8"	2-5/16"	1022007	27.82	20.86		1021811	35.40	28.27
3/16"	0.1875"	3/8"	1/2"	2-3/8"	1022008	27.52	20.65		1021812	34.39	27.46
1/4"	0.25"	3/8"	5/8"	2-7/16"	1022009	35.61	28.43		1021813	32.28	25.76
5/16"	0.3125"	3/8"	3/4"	2-1/2"	1022010	29.34	22.01		1021814	37.94	28.46
3/8"	0.375"	3/8"	3/4"	2-1/2"	1022011	31.19	23.39		1021815	32.98	26.31
7/16"	0.4375"	3/8"	1"	2-11/16"	1022025	38.90	31.05		1021816	50.47	37.86
1/2"	0.5"	1/2"	1-1/4"	3-1/4"	1022012	39.31	29.48		1021818	47.14	35.35
5/8"	0.625"	5/8"	1-5/8"	3-3/4"	1022013	61.64	46.23		1021821	70.75	56.47
3/4"	0.75"	3/4"	1-5/8"	3-7/8"	1022015	88.33	66.25		1021826	78.70	62.83
7/8"	0.875"	3/4"	1-7/8"	4-1/8"	1021915	151.65	113.74		1021830	95.35	71.51
1"	1"	3/4"	2"	4-1/8"	1021916	169.16	126.87		1021835	109.53	87.43
1-1/8"	1.125"	3/4"	1-1/2"	3-7/8"	-	-	-		1021863	149.94	112.46
1-1/4"	1.25"	3/4"	1-1/2"	4-1/4"	-	-	-		1021864	195.62	146.72
1-1/2"	1.5"	3/4"	2"	3-7/8"	-	-	-		1021866	226.18	180.53
1-3/4"	1.75"	3/4"	1-1/2"	3-7/8"	-	-	-		1021867	248.07	198.02

4123

**NEW!**

HY-PRO® SIGMA Spiral Point Taps - List 10280

Ultra-Premium Design for a Wide Range of Materials

- Sharp Cutting Edge for stabilizing chip shape and decreasing cutting resistance
- Superior Durability - Geometry designed to last longer in harder materials



Thread Size	Thread Tolerance Class (TCTR)	Thread Cutting Part Length (THL)	Usable Length (LU)	Overall Length (OAL)	Flute Count (NOF)	Steam Oxide			TiCN		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
M4 x 0.7	D4	8.3 mm	21 mm	63 mm	3	135892B	48.80	39.05	135920B	64.26	51.41
M5 x 0.8	D4	9.7 mm	24.8 mm	70 mm	3	135880B	48.80	39.05	135765B	64.26	51.41
M6 x 1	D5	11.9 mm	29.7 mm	80 mm	3	135767B	48.80	39.05	135961B	64.26	51.41
M8 x 1.25	D5	15 mm	34.8 mm	90 mm	3	135985B	55.96	44.77	135894B	80.12	64.09
M10 x 1.5	D6	18 mm	38.9 mm	100 mm	3	135716B	77.76	62.20	135815B	101.93	81.55
M10 x 1	D5	18 mm	34.8 mm	90 mm	3	135752B	77.76	62.20	135875B	101.93	81.55
M12 x 1.25	D5	21 mm	32 mm	100 mm	3	135772B	93.27	74.62	135826B	117.46	93.97
#2 - 56	H2	0.437"	0.476"	1.772"	2	135929B	65.48	52.39	135713B	75.00	60.00
#4 - 40	H2	0.295"	0.704"	2.205"	2	135804B	43.16	34.52	135858B	49.36	39.49
#6 - 32	H3	0.37"	0.783"	2.205"	3	135831B	35.88	28.70	135916B	41.08	32.86
#8 - 32	H2	0.374"	0.826"	2.481"	3	135820B	35.88	28.70	135834B	41.08	32.86
#8 - 32	H3	0.374"	0.826"	2.481"	3	135851B	35.88	28.70	135749B	41.08	32.86
#10 - 32	H2	0.492"	0.976"	2.756"	3	135725B	35.88	28.70	135933B	41.08	32.86
#10 - 24	H3	0.492"	0.976"	2.756"	3	135927B	35.88	28.70	135819B	41.08	32.86
#10 - 32	H3	0.492"	0.976"	2.756"	3	135940B	35.88	28.70	135963B	41.08	32.86
1/2" - 13	H3	0.921"	1.354"	4.331"	3	135718B	75.74	60.59	135946B	86.69	69.36
1/2" - 13	H5	0.921"	1.354"	4.331"	3	135914B	75.74	60.59	135764B	86.69	69.36
1/4" - 20	H5	0.594"	1.177"	3.15"	3	135909B	39.82	31.85	135910B	45.54	36.43
1/4" - 20	H3	0.594"	1.177"	3.15"	3	135918B	39.82	31.85	135773B	45.54	36.43
3/4" - 10	H3	1.201"	1.7125"	4.921"	3	135760B	215.43	172.34	135727B	246.65	197.32
3/8" - 16	H5	0.752"	1.535"	3.937"	3	135925B	50.43	40.35	135775B	57.69	46.16
3/8" - 16	H3	0.752"	1.535"	3.937"	3	135943B	50.43	40.35	135723B	57.69	46.16
5/16" - 18	H3	0.665"	1.377"	3.543"	3	135719B	44.69	35.76	135919B	51.10	40.88
5/16" - 18	H5	0.665"	1.377"	3.543"	3	135958B	44.69	35.76	135936B	51.10	40.88
5/8" - 11	H3	1.091"	1-9/16"	4.331"	3	135930B	137.33	109.86	135983B	157.22	125.78

61420



Uniflute® Countersinks - High Speed Steel

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)	60 Degrees			82 Degrees			90 Degrees			100 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"	0243569	19.92	15.93	0243571	19.92	15.93	0243573	19.92	15.93	0243575	19.92	15.93	0243577	19.92	15.93
3/16"	3/16"	1-1/2"	0243579	20.55	16.44	0243581	20.55	16.44	0243583	20.55	16.44	0243585	20.55	16.44	0243587	20.55	16.44
1/4"	1/4"	2"	0243589	21.43	17.15	0243591	21.43	17.15	0243593	21.43	17.15	0243595	21.43	17.15	0243597	21.43	17.15
3/8"	1/4"	2"	0243599	24.33	19.46	0243601	24.33	19.46	0243603	24.33	19.46	0243605	24.33	19.46	0243607	24.33	19.46
1/2"	1/4"	2"	0243609	29.68	23.74	0243611	29.68	23.74	0243613	29.68	23.74	0243615	29.68	23.74	0243617	29.68	23.74
5/8"	1/4"	2-1/4"	0243619	39.62	31.70	0243621	39.62	31.70	0243623	39.62	31.70	0243625	39.62	31.70	0243627	39.62	31.70
3/4"	1/2"	2-3/4"	0243629	57.85	46.28	0243631	57.85	46.28	0243633	57.85	46.28	0243635	57.85	46.28	0243637	57.85	46.28
1-1/4"	1/2"	3"	0243649	188.48	150.78	0243650	188.48	150.78	0243651	188.48	150.78	-	-	-	-	-	-
1"	1/2"	2-3/4"	0243639	96.35	77.08	0243641	96.35	77.08	0243643	96.35	77.08	0243645	96.35	77.08	0243647	96.35	77.08
2"	3/4"	3-3/4"	0243655	458.12	366.49	0243656	458.12	366.49	0243657	458.12	366.49	-	-	-	-	-	-
2-1/2"	3/4"	5"	0243658	1221.57	977.26	0243659	1221.57	977.26	0243660	1221.57	977.26	-	-	-	-	-	-
1-1/2"	3/4"	3-1/2"	0243652	255.18	204.15	0243653	255.18	204.15	0243654	255.18	204.15	-	-	-	-	-	-
3"	3/4"	5-1/4"	0243661	1424.19	1139.35	0243662	1424.19	1139.35	0243663	1424.19	1139.35	-	-	-	-	-	-

717



Abrasives



Quickie Cut™ Reinforced Cut-Off Wheels

- Extra-thin reinforced Type 1 cut-off wheels for fast, efficient cutting
- Aluminum oxide abrasive designed for cutting Metal, Steel, and Stainless Steel with an Iron-Free formulation to help prevent rust development
- A36-TBF wheels provide fast cutting action and long wheel life
- A60-TB Flex wheels deliver fast cutting performance with added flexibility and extended life
- Sell pack quantities may vary by product



Diameter	Thickness	Arbor Hole	Specification	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	.035"	7/8"	A60-TB Flex	13300	0983553	3.70	2.59
4 1/2"	.045"	7/8"	A36-TBF	13300	0982962	3.72	2.60
6"	.040"	7/8"	A60-TB Flex	10200	0983555	4.76	3.33
6"	.045"	7/8"	A36-TBF	10200	0982965	4.73	3.32

2414



Aluminum Oxide Grain Quick Change Abrasive Discs

- Ideal for general purpose deburring and blending on Ferrous and Non-Ferrous Metals
- Designed for use on mild contours and flat surfaces
- Blends light welds, machine marks, and parting lines
- Sell pack quantities may vary by product



Diameter	Thickness	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
3"	0.035"	3/8"	46	25,465	0984904	8.86	7.08
3"	0.035"	3/8"	60	25,465	0984850	6.06	4.55
3"	1/16"	3/8"	36	25,465	0984852	6.01	4.51
3"	1/16"	3/8"	46	25,465	0984905	9.00	7.20
4"	0.035"	3/8"	46	19,100	0985050	12.19	9.76
4"	0.035"	3/8"	60	19,100	0984946	9.37	7.03
4"	1/16"	3/8"	36	19,100	0984948	8.23	6.17
4"	1/16"	3/8"	46	19,100	0985049	12.19	9.76

1774



Hand Deburring Set

- Deburrs Steel, Aluminum, and Plastic
- Includes NogaGrip 2 handle and 10-piece N1 blade set
- Complete hand deburring solution for versatile material applications



Order No.	Regular Price	SALE
0558716	24.70	18.52

5825



Multi-Function Deburring Kit

- Performs deburring, cleaning, finishing, and countersinking operations
- Includes RB handle, O-ring blade, RD16.5 RotoDrive countersink, and EX18 External RotoDrive countersink
- Includes thread cleaner blade, S100 blade, and S150 blade



Order No.	Regular Price	SALE
0558799	99.93	74.96

727



Scotch-Brite™ Roloc™ Surface Conditioning Discs

- Scotch-Brite™ Roloc™ surface conditioning discs feature non-woven web construction for a burr-free decorative finish
- Removes grind marks, rust, and coatings
- Features Roloc™ TR plastic button attachment system



Diameter	Maximum RPM	Grade	Color	Order No.	Regular Price	SALE
1"	30,000	Very Fine	Teal	1248123	1.81	1.54
1"	30,000	Medium	Maroon	1248124	1.81	1.54
1-1/2"	30,000	Very Fine	Teal	1248055	1.90	1.62
1-1/2"	30,000	Medium	Maroon	1248054	1.90	1.62
1-1/2"	30,000	Coarse	Brown	1248053	1.90	1.62
2"	25,000	Very Fine	Teal	1248021	2.76	2.34
2"	25,000	Medium	Maroon	1248022	2.76	2.34
2"	25,000	Medium	Maroon	1248323	2.80	2.38
2"	25,000	Coarse	Brown	1248023	2.76	2.34
3"	18,000	Very Fine	Teal	1248025	5.10	4.33
3"	18,000	Medium	Maroon	1248026	5.10	4.33
3"	18,000	Coarse	Brown	1248027	5.10	4.33
4"	12,000	Coarse	Brown	1249461	7.42	6.31

60707



Cubitron 3 Cloth Sanding Belts (1184F)

- Precision-shaped ceramic grain delivers consistently fast cut rates and extended abrasive life
- Engineered for aggressive stock removal and weld grinding on Steel and Stainless Steel
- Cool-cutting performance helps reduce heat buildup and workpiece discoloration
- Durable YF-weight cloth backing designed for medium to high-pressure belt applications



Length	Width	Grit	Order No.	Regular Price	SALE
18"	1/2"	36+	445825A	9.97	8.97
18"	1/2"	36+	747062A	7.15	6.44
18"	3/4"	36+	445826A	10.68	9.62
21"	1-3/16"	36+	101702A	18.86	16.97
44"	1/2"	36+	528439A	14.80	13.31
60"	2-1/2"	36+	101701A	46.72	42.04
72"	1"	36+	9729273	28.04	25.24
107"	8"	36+	132711A	222.63	200.37
120"	11-3/4"	36+	698030A	358.50	322.64
132"	3"	36"	9765855	98.08	88.27
132"	4"	36+	489791A	130.76	117.68
168"	4"	36+	741639A	158.76	142.88

61418



Mini Disc Brushes

- Maximum density design with crimped rectangular black ceramic filament for aggressive brushing action
- Designed for deburring, cleaning, and finishing applications
- Provides consistent performance on flat surfaces and hard-to-reach areas



Diameter	Grit	Trim Length	Maximum RPM	Bristle Diameter	Order No.	Regular Price	SALE
2"	80	1 1/4"	4,500	0.035"	1000452	341.12	255.85
2"	80	1 1/4"	4,500	0.049"	1000451	341.12	255.85
2"	80	1 1/4"	4,500	0.055"	1000450	331.25	248.44
2"	120	1 1/4"	4,500	0.026"	1000511	331.25	248.44
2"	120	1 1/4"	4,500	0.043"	1000512	331.25	248.44
3"	80	1 1/4"	4,500	0.035"	1000501	444.79	333.59
3"	80	1 1/4"	4,500	0.049"	1000502	444.79	333.59
3"	120	1 1/4"	4,500	0.026"	1000514	453.67	340.26
3"	120	1 1/4"	4,500	0.043"	1000515	453.67	340.26
3"	120	1 1/4"	4,500	0.055"	1000516	453.67	340.26

1425



3M Pads for Roloc™ Discs

- Provides secure attachment for 3M Roloc™ discs and bristle products
- Available in various diameters and hardness levels to meet different grinding applications
- Quick and easy disc attachment helps increase productivity
- Compatible with drills, disc sanders, right angle grinders, and rotary sanders



Diameter	Arbor Hole	Maximum RPM	Density	Order No.	Regular Price	SALE
1 1/2"	1/4"-20	30,000	Medium	1243774	37.48	31.85
2"	1/4"-20	25,000	Medium	1243770	39.91	33.92
2"	1/4"-20	25,000	Hard	1243771	39.91	33.92
2"	1/4"-20	25,000	Extra Hard	1243772	45.49	38.67
3"	1/4"-20	18,000	Medium	1243767	48.71	41.40
3"	1/4"-20	20,000	Hard	1243766	48.71	41.40
3"	1/4"-20	20,000	Extra Hard	1243768	50.30	42.76
4"	3/8"-24	12,000	Hard	1243311	54.89	46.66
4"	3/8"-24	12,000	Extra Hard	1243312	54.91	46.68
4"	5/8"-11	12,000	Medium	1245273	54.91	46.68

61226



Knotted End Brushes

- Knotted wire construction provides aggressive cleaning action for demanding applications
- Designed for removing rust, paint, scale, and weld spatter
- Ideal for surface preparation, weld cleaning, and heavy-duty deburring



Brush Diameter	Bristle Diameter	Trim Length	Maximum RPM	Material	Order No.	Regular Price	SALE
1/2"	0.014"	1 1/8"	20,000	Stainless Steel	0998217	55.62	38.93
1/2"	0.014"	1 1/8"	20,000	Steel	0998216	50.05	35.04
3/4"	0.0104"	1 1/8"	22,000	Stainless Steel	0998211	74.77	52.35
3/4"	0.0104"	1 1/8"	22,000	Steel	0998210	55.37	38.77
3/4"	0.014"	7/8"	22,000	Stainless Steel	0998155	77.48	54.24
3/4"	0.014"	7/8"	22,000	Steel	0998144	43.15	30.20
3/4"	0.020"	7/8"	22,000	Stainless Steel	0998157	74.87	52.42
3/4"	0.020"	7/8"	22,000	Steel	0998146	42.73	29.90
1 1/8"	0.0104"	1 1/8"	20,000	Stainless Steel	0998213	79.25	55.48
1 1/8"	0.0104"	1 1/8"	20,000	Steel	0998212	65.45	45.82
1 1/8"	0.014"	7/8"	22,000	Steel	0998149	47.12	32.98
1 1/8"	0.014"	7/8"	22,000	Stainless Steel	0998158	96.80	67.76
1 1/8"	0.020"	7/8"	22,000	Stainless Steel	0998160	86.72	60.70
1 1/8"	0.020"	7/8"	22,000	Steel	0998152	46.41	32.49

1439



Abrasives



Cubitron 3 Flap Disc (1169F)

- Delivers long-lasting premium performance and versatility
- Proven to outperform traditional alumina zirconia flap discs
- Individual flaps break down, exposing fresh mineral to deliver consistent cut rate for the life of the disc
- Covers a wide range of applications from weld grinding and beveling to surface prep, deburring, blending, finishing, weld spatter removal, and work on edges and contours



Type 27						
Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	5/8"-11	40+	13,300	868261A	13.03	11.07
4-1/2"	5/8"-11	60+	13,300	868272A	13.03	11.07
4-1/2"	5/8"-11	80+	13,300	868278A	13.03	11.07
4-1/2"	7/8"	40+	13,300	868259A	11.59	9.86
4-1/2"	7/8"	60+	13,300	868266A	11.59	9.86
4-1/2"	7/8"	80+	13,300	868276A	11.59	9.86
5"	7/8"	40+	12,000	868263A	14.00	11.90
5"	7/8"	60+	12,000	868275A	14.00	11.90
5"	7/8"	80+	12,000	868281A	14.00	11.90
6"	5/8"-11	40+	10,000	868283A	25.65	21.80
6"	5/8"-11	60+	10,000	868284A	25.65	21.80
6"	5/8"-11	80+	10,000	868285A	25.65	21.80
7"	5/8"-11	40+	8,600	868268A	28.52	24.23
7"	7/8"	40+	8,600	868267A	23.48	19.95

Type 29						
Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	5/8"-11	40+	13,300	868262A	13.03	11.07
4-1/2"	5/8"-11	60+	13,300	868273A	13.03	11.07
4-1/2"	5/8"-11	80+	13,300	868279A	13.03	11.07
4-1/2"	7/8"	40+	13,300	868260A	11.59	9.86
4-1/2"	7/8"	60+	13,300	868271A	11.59	9.86
4-1/2"	7/8"	80+	13,300	868277A	11.59	9.86
5"	5/8"-11	40+	12,000	868265A	16.66	14.17
5"	7/8"	40+	12,000	868264A	14.00	11.90
5"	7/8"	60+	12,000	868274A	14.00	11.90
5"	7/8"	80+	12,000	868280A	14.00	11.90
7"	5/8"-11	40+	8,600	868270A	28.52	24.23
7"	5/8"-11	80+	8,600	868282A	28.52	24.23
7"	7/8"	40+	8,600	868269A	23.48	19.95

61227



Abrasive Hand Pads

- Excellent for hand finishing and cleaning applications on wood, metals, and composite materials
- Ideal for wood finishing, paint preparation, and general cleaning tasks
- Flexible construction conforms to contours and hard-to-reach areas
- Sell pack quantities may vary by product



Width	Length	Abrasive Material	Order No.	Regular Price	SALE
6"	9"	Non Woven Abrasive	1248605	2.81	2.53
6"	9"	Aluminum Oxide	1248766	275.86	248.28
6"	9"	Non Woven Abrasive	1248975	5.10	4.59
6"	9"	Aluminum Oxide	1248973	7.57	6.82
6"	9"	Aluminum Oxide	1248606	2.81	2.53

2409



BobCat® Quick Change Zirconia Flap Discs

- Zirconia abrasive provides aggressive stock removal and long-lasting performance
- Ideal for grinding, deburring, and blending Steel and Stainless Steel in metal fabrication applications
- Quick change design allows fast disc changes for increased productivity
- Available in angled style for maximum contact and flat style for smoother grinding and enhanced conformability



2"						
			S		R	
Wheel Type	Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.
Type 27	36	30,000	0999488	10.40	7.80	0999503
Type 27	40	30,000	0999489	10.40	7.80	0999504
Type 27	60	30,000	0999490	10.40	7.80	0999505
Type 27	80	30,000	0999491	10.40	7.80	0999506
Type 27	120	30,000	0999492	10.40	7.80	0999507
Type 29	36	30,000	-	-	-	0999493
Type 29	40	30,000	0999484	10.40	7.80	0999494
Type 29	60	30,000	0999485	10.40	7.80	0999495
Type 29	80	30,000	0999486	10.40	7.80	0999496
Type 29	120	30,000	-	-	-	0999497

3"						
			S		R	
Wheel Type	Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.
Type 27	36	20,000	0999478	13.44	10.08	0999508
Type 27	40	20,000	0999479	13.44	10.08	0999509
Type 27	60	20,000	0999480	13.44	10.08	0999510
Type 27	80	20,000	0999481	13.44	10.08	0999511
Type 27	120	20,000	0999482	13.44	10.08	0999512
Type 29	36	20,000	0999498	13.44	10.08	0999473
Type 29	40	20,000	0999499	13.44	10.08	0999474
Type 29	60	20,000	0999475	13.44	10.08	-
Type 29	60	20,000	0999500	13.44	10.08	-
Type 29	80	20,000	0999476	13.44	10.08	-
Type 29	80	20,000	0999501	13.44	10.08	-

471



Tiger X Flap Discs

- Ceramic and zirconia alumina grain blend delivers fast grinding and long life on flat surfaces
- Contaminant-free construction helps prevent contamination when working on Stainless Steel
- Phenolic backing provides durability for demanding metalworking applications
- Designed for Steel and Stainless Steel grinding applications



Flat						
			Regular		Angled	
Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	5/8"-11	40	13,000	0999603	22.05	16.53
4-1/2"	5/8"-11	60	13,000	-	-	0999582
4-1/2"	5/8"-11	80	13,000	0999605	22.05	16.53
4-1/2"	7/8"	36	13,000	-	-	0999573
4-1/2"	7/8"	40	13,000	0999600	19.15	13.41
4-1/2"	7/8"	60	13,000	0999601	19.15	13.41
4-1/2"	7/8"	80	13,000	0999602	19.15	13.41

61433



Ceramic Flap Discs (R980)

- Next-generation Blaze ceramic grain delivers noticeably faster cut rates
- Improved Y-weight polyester cloth and premium resin system provide longer disc life with better grain retention
- Enhanced edge fray resistance helps reduce grinding costs
- Durable polyester backing stands up to demanding metalworking applications



Type 27

Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	5/8"-11	40	13,300	0989952	27.04	20.17
4-1/2"	5/8"-11	60	13,300	0989953	27.04	20.17
4-1/2"	5/8"-11	80	13,300	0989954	27.04	20.17
4-1/2"	5/8"-11	120	13,300	0989955	27.04	20.17
4-1/2"	7/8"	40	13,300	0989948	21.93	16.36
4-1/2"	7/8"	60	13,300	0989942	22.62	18.00
4-1/2"	7/8"	80	13,300	0989949	21.93	16.36
4-1/2"	7/8"	120	13,300	0989950	21.93	16.36
4-1/2"	7/8"	120	13,300	0989951	21.93	16.36

Type 29

Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	5/8"-11	36	13,300	0990031	27.04	20.17
4-1/2"	5/8"-11	40	13,300	0990032	27.04	20.17
4-1/2"	5/8"-11	60	13,300	0990033	27.04	20.17
4-1/2"	5/8"-11	80	13,300	0990034	27.04	20.17
4-1/2"	7/8"	36	13,300	0990028	21.93	16.36
4-1/2"	7/8"	40	13,300	0990029	21.93	16.36
4-1/2"	7/8"	60	13,300	0990030	21.93	16.36
4-1/2"	7/8"	80	13,300	0990035	21.93	16.36

1744



Coated Abrasive Mounted Flap Wheels

- Aluminum oxide abrasive with resin bond cloth construction provides consistent cutting performance
- Mounted on hardened 1/4" steel shanks for secure operation with die grinders
- Designed for finishing, blending, and deburring applications
- Ideal for working on contoured surfaces and hard-to-reach areas
- Sell pack quantities may vary by product



Diameter	Face Width	Grit	Maximum RPM	Order No.	Regular Price	SALE
1"	1"	60	30,000	0984600	8.08	5.25
1"	1"	80	30,000	0984601	8.08	5.25
1"	1"	120	30,000	0984595	8.08	5.25
1-1/2"	1"	60	25,000	0984617	10.02	6.51
1-1/2"	1"	80	25,000	0984618	10.02	6.51
1-1/2"	1"	120	25,000	0984612	10.02	6.51
2"	1"	60	25,000	0984635	11.79	7.66
2"	1"	80	25,000	0984636	11.79	7.66
2"	1"	120	25,000	0984630	11.86	7.71
2-1/2"	1"	60	20,000	0984654	16.34	10.63
2-1/2"	1"	80	20,000	0984655	16.34	10.63
2-1/2"	1"	120	20,000	0984651	16.72	10.86
3"	1"	60	20,000	0984676	18.23	11.84
3"	1"	80	20,000	0984677	18.23	11.84
3"	1"	120	20,000	0984671	19.24	12.50

61434



Portable Sander Belts

Blaze Belts

- Blaze ceramic grain belts last 50% to 200% longer on Mild Steel, Carbon Steel, Stainless Steel, Cobalt, Chrome, Inconel, and Titanium applications
- Cuts cooler and up to 30% faster than previous generation belts
- Improved Y-weight polyester cloth backing provides better grain adhesion and edge fray resistance
- Delivers a more consistent grind throughout extended belt life
- Reduces total grinding costs through longer belt life and improved performance



Width	Length	Grit	Order No.	Regular Price	SALE
1/2"	12"	40	0987702	6.64	4.95
1/2"	12"	60	0987703	6.35	4.74
1/2"	12"	80	0987704	6.10	4.54
1/2"	18"	40	0987705	7.06	5.26
1/2"	18"	60	0987706	6.71	5.01
1/2"	24"	40	0987708	7.77	5.80
1/2"	24"	60	0987709	7.24	5.39
1/2"	24"	80	0987710	6.71	5.01
3/4"	18"	40	0987711	7.92	5.92
3/4"	18"	60	0987712	7.39	5.51
3/4"	18"	80	0987713	6.95	5.19
3/4"	20-1/2"	40	0987714	8.06	6.02
3/4"	20-1/2"	60	0987715	7.77	5.80
3/4"	20-1/2"	80	0987716	7.31	5.45

459



Cubitron 2 Roloc Durable Edge Disc (R84F)

- Featuring durable edge backing - for longer edge retention
- The 984F disc series extends disc life via precision-shaped ceramic grains
- Quick change discs
- Features a flexible, durable cloth backing that stands up to aggressive grinding applications
- Optimized for: Stainless Steel, High Nickel Alloys, Superalloys, and Carbon Steel



Attachment Type - TSM							Attachment Type - TR		
Diameter	Grit	Maximum		Regular			Regular		
		RPM	Order No.	Price	SALE	Order No.	Price	SALE	
1-1/2"	36+	30,000	1243016	2.04	1.74	1243012	2.04	1.74	
1-1/2"	60+	30,000	1243024	1.89	1.61	1243020	1.89	1.61	
1-1/2"	80+	30,000	1243032	1.89	1.61	1243028	1.89	1.61	
2"	36+	25,000	1243017	3.11	2.65	1243013	3.11	2.65	
2"	60+	25,000	1243025	2.81	2.39	1243021	2.81	2.39	
2"	80+	25,000	1243033	2.73	2.32	1243029	2.73	2.32	
3"	36+	20,000	1243018	4.05	3.44	1243014	4.05	3.44	
3"	60+	20,000	1243026	3.61	3.07	1243022	3.61	3.07	
3"	80+	20,000	1243034	3.61	3.07	1243030	3.61	3.07	
4"	36+	12,000	1243019	5.84	4.96	1243015	5.84	4.96	
4"	60+	12,000	1243027	5.28	4.48	1243023	5.28	4.48	
4"	80+	12,000	1243035	5.04	4.28	1243031	5.15	4.38	

5902



Resin Fiber Discs

- Premium aluminum oxide grain delivers long life, high stock removal, and cool cutting action on metal and weld applications
- Zirconia alumina grain provides twice the cutting action of premium aluminum oxide discs
- High concentration zirconia and heat-treated aluminum oxide grain offers exceptional heat resistance for demanding grinding applications



Zirconia Alumina						Aluminum Oxide		
Diameter	Grit	Arbor Hole	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4-1/2"	36	7/8"	0983654	2.10	1.47	0983618	1.43	0.99
4-1/2"	50	7/8"	0983656	1.96	1.37	0983620	1.34	0.94
4-1/2"	60	7/8"	0983657	1.74	1.22	0983621	1.27	0.90
4-1/2"	80	7/8"	0983658	1.71	1.19	0983622	1.25	0.87
4-1/2"	100	7/8"	-	-	-	0983623	1.25	0.87
4-1/2"	120	7/8"	-	-	-	0983624	1.25	0.87
5"	16	7/8"	-	-	-	0983625	2.06	1.44
5"	24	7/8"	0983659	2.31	1.62	0983626	1.64	1.15
5"	36	7/8"	0983660	2.17	1.53	0983627	1.57	1.09
5"	50	7/8"	0983662	2.06	1.44	0983629	1.50	1.05
5"	60	7/8"	0983663	1.81	1.26	0983630	1.34	0.94
5"	80	7/8"	0983664	1.78	1.25	0983631	1.32	0.92

962



RazorStar Quick-Change Discs

- 100% engineered shaped grain cuts through metal with exceptional speed for demanding grinding applications
- Designed for medium to high pressure metal removal, including stock removal, weld blending, beveling, and deburring
- Razor-sharp grain combined with supersized grinding aid reduces heat generation for cooler cuts and longer disc life
- Strong polyester backing withstands extreme pressure in tough grinding applications



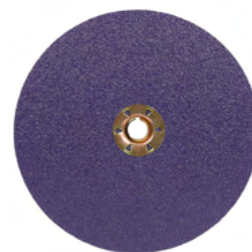
TR Type III						TS Type II			
Diameter	Grit	Maximum		Order No.	Regular	SALE	Regular		SALE
		RPM	Ply		Price		Order No.	Price	
2"	36	30,000	2	109553A	5.89	4.68	109554A	5.89	4.68
2"	36	30,000	3	9718938	5.50	4.40	9718942	5.50	4.40
3"	36	20,000	2	109555A	7.18	5.71	109552A	7.18	5.71
3"	36	20,000	3	9718944	6.71	5.36	9718947	6.71	5.36

60711



Cubitron 3 Fiber Disc (1182C)

- Re-engineered Precision-Shaped Grain delivers faster cutting performance and longer disc life
- Stiff fiber backing and strong resin bond provide durability and tear resistance for heavy grinding applications
- Designed for medium to high pressure grinding, weld removal, beveling, and deburring applications



Center Hole						
Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4"	5/8"	36+	15,000	9647641	8.99	7.64
4"	7/8"	36+	15,000	9647645	8.99	7.64
4-1/2"	7/8"	36+	13,300	9647646	10.68	9.09
4-1/2"	7/8"	60+	13,300	525033A	8.86	7.53
4-1/2"	7/8"	80+	13,300	599867A	8.33	7.08
5"	7/8"	36+	12,000	9647643	10.68	9.09
5"	7/8"	60+	12,000	525031A	8.86	7.53
5"	7/8"	80+	12,000	525034A	8.33	7.08
6"	7/8"	36+	10,000	9647647	11.45	9.73
6"	7/8"	60+	10,000	599858A	9.44	8.02
7"	7/8"	36+	8,600	9647648	12.31	10.46
7"	7/8"	60+	8,600	525030A	10.21	8.68
7"	7/8"	80+	8,600	525029A	8.81	7.49
9-1/8"	7/8"	36+	6,600	9647660	16.32	13.87
9-1/8"	7/8"	60+	6,600	599872A	13.66	11.62
9-1/8"	7/8"	80+	6,600	599865A	12.81	10.89

TN						
Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	7/8"	36+	13,300	9647650	11.38	9.67
4-1/2"	5/8"-11	80+	13,300	599905A	8.88	7.55
4-1/2"	5/8"-11	60+	13,300	599919A	9.49	8.06
5"	5/8"-11	60+	12,000	599870A	9.49	8.06
5"	5/8"-11	80+	12,000	599871A	8.88	7.55
5"	7/8"	36+	12,000	9647651	11.38	9.67
7"	7/8"	36+	8,600	9647652	13.13	11.16
7"	5/8"-11	60+	8,600	599891A	10.91	9.27
7"	5/8"-11	80+	8,600	599925A	10.29	8.75

GL						
Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	7/8"	36+	13,300	9647653	10.28	8.74
5"	7/8"	36+	12,000	9647658	11.38	9.67
5"	5/8"-11	60+	12,000	599866A	9.49	8.06
5"	5/8"-11	80+	12,000	599903A	8.88	7.55
7"	7/8"	36+	8,600	9647644	13.13	11.16
7"	5/8"-11	60+	8,600	599908A	10.91	9.27
7"	5/8"-11	80+	8,600	599922A	10.29	8.75

60720



RazorStar Fiber Discs

- 100% engineered shaped grain delivers exceptional cutting performance in demanding grinding applications
- Heavy fiber backing provides added strength and tear resistance for high-pressure grinding
- Razor-sharp grain combined with supersized grinding aid reduces heat generation for cooler cuts and longer disc life
- Optimized for metal removal applications on Carbon Steel, Aluminum, Stainless Steel, and hard-to-grind materials



TR|Type III

Diameter	Grit	Maximum RPM	Order No.	Regular Price	SALE
2"	36	30,000	109564A	7.64	6.08
3"	36	20,000	109565A	9.14	7.27

Arbor Hole

Diameter	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	36	11,000	109556A	13.77	10.95
5"	36	10,000	109557A	13.77	10.95
7"	36	8,600	109558A	15.88	12.64

Speed-Lok Fastener

Diameter	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	36	13,000	109566A	21.72	17.28
5"	36	13,000	109567A	22.37	17.79
7"	36	8,600	109568A	25.75	20.49

Speed-Change Fastener

Diameter	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	36	20,000	109560A	14.67	11.67
5"	36	12,000	109561A	14.67	11.67
7"	36	8,600	109562A	16.91	13.45

TN

Diameter	Grit	Maximum RPM	Order No.	Regular Price	SALE
6"	36	8,600	109563A	14.83	11.80
9-1/8"	36	6,600	109559A	21.05	16.75

60712



Ceramic Resin Fiber Discs

- Extremely high stock removal from self-sharpening ceramic grain
- Cool grinding and extended life with Top Size grinding-active layer
- High wear resistance and strong form stability
- Aggressive cut and very long lifetime on Stainless Steel and Superalloys
- Suitable for Unalloyed Steel, Stainless Steel, Superalloys, Non-Ferrous Metals, and Aluminum



Diameter - 4-1/2"

Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
7/8"	24	13,000	1693074	5.77	4.90
7/8"	36	13,000	1693075	5.15	4.38
7/8"	50	13,000	1693076	5.15	4.38
7/8"	60	13,000	1693077	5.15	4.38
7/8"	100	13,000	1693072	3.58	3.05
7/8"	120	13,000	1693073	3.58	3.05

Diameter - 7"

Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
7/8"	24	8,000	1693089	11.45	9.73
7/8"	36	8,600	1316244	11.09	9.42
7/8"	50	8,000	1316245	10.30	8.76
7/8"	60	8,000	1693091	10.30	8.76
7/8"	100	8,000	1693087	6.86	5.84
7/8"	120	8,000	1693088	6.86	5.84

3505



Extreme Series Flap Discs

- Layered abrasive flap construction on rigid backing
- Zirconia alumina and aluminum oxide grain options
- Angle grinder compatible
- Used for grinding, weld blending, and finishing



Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	7/8"	40	13,300	9718827	14.67	11.00
4-1/2"	7/8"	40	13,300	9718820	11.76	8.82
4-1/2"	7/8"	60	13,300	9718821	11.76	8.82
4-1/2"	7/8"	60	13,300	9718828	14.67	11.00
4-1/2"	7/8"	80	13,300	9718822	11.76	8.82
4-1/2"	7/8"	80	13,300	9718829	14.67	11.00
4-1/2"	5/8"-11	40	13,300	9718837	15.46	11.59
4-1/2"	5/8"-11	40	13,300	9718844	18.37	13.78
4-1/2"	5/8"-11	60	13,300	9718838	15.46	11.59
4-1/2"	5/8"-11	60	13,300	9718845	18.37	13.78
4-1/2"	5/8"-11	80	13,300	9718835	15.46	11.59
4-1/2"	5/8"-11	80	13,300	9718839	15.46	11.59

61426



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	1294952	304.64	213.25

799



Torx® Bits



Tip Size	Drive Size	Overall Length	Model No	Order No.	Regular Price	SALE
T6	1/4"	1"	440-TX-06X	0912395	8.42	7.54
T7	1/4"	1"	440-TX-07X	0912396	8.42	7.54
T8	1/4"	1"	440-TX-08X	0912397	8.42	7.54
T9	1/4"	1"	440-TX-09X	0912398	8.42	7.54
T10	1/4"	1"	440-TX-10X	0912399	7.09	6.35
T15	1/4"	1"	440-TX-15X	0912400	7.09	6.35
T20	1/4"	1"	440-TX-20X	0912401	7.18	6.42
T25	1/4"	1"	440-TX-25X	0912402	7.18	6.42
T27	1/4"	1"	440-TX-27X	0912403	7.18	6.42
T30	1/4"	1"	440-TX-30X	0912404	7.18	6.42
T40	1/4"	1"	440-TX-40X	0912405	7.18	6.42
T27	5/16"	1 1/4"	480-TX-27X	0912409	9.38	8.39
T30	5/16"	1 1/4"	480-TX-30X	0912410	9.29	8.31
T40	5/16"	1 1/4"	480-TX-40X	0912411	9.29	8.31
T45	1/4"	1 1/4"	440-TX-45X	0912406	11.61	10.40
T45	5/16"	1 1/4"	480-TX-45X	0912412	10.49	9.39
T50	1/4"	1 1/4"	440-TX-50X	0912407	12.70	11.37
T50	5/16"	1 1/4"	480-TX-50X	0912413	10.49	9.39
T55	5/16"	1 1/4"	480-TX-55X	0912414	11.86	10.62

3448



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



Smooth				Bastard			
Overall Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	
4"	0562015	19.26	14.45	0562014	13.02	9.77	
4"	0561992	36.50	27.37	0561990	34.78	26.08	
6"	0562018	19.81	14.85	0562016	12.87	9.65	
6"	0561995	49.00	36.75	0561993	39.76	29.82	
8"	0562022	23.31	17.49	0562019	15.46	11.59	
8"	0561998	53.31	39.98	0561996	47.38	35.53	
10"	0562026	27.51	20.64	-	-	-	
10"	0562001	63.81	47.87	0561999	55.96	41.97	
10"	-	-	-	0562023	20.09	15.06	
12"	0562029	38.72	29.05	0562027	32.76	24.57	
14"	0562031	54.22	40.67	0562030	43.48	32.62	

1324



Adjustable Wrenches

- Wider knurl for easier adjustment
- Laser etched size scale on each wrench
- Wide capacity jaw
- Handle provides more comfort and less stress to the hand



Overall Length	Jaw Capacity	Order No.	Regular Price	SALE
4"	1/2"	0911434	30.67	24.54
6"	15/16"	0911438	32.87	26.29
8"	1 1/8"	0911445	37.25	29.81
10"	1 5/16"	0911419	48.22	38.57
12"	1 1/2"	0911423	54.80	43.83

17031



Metalmaster® Compound Action Snips

- M-1R - cuts left from tight curves to straight, and has red vinyl grips
- M-2R - cuts right from tight curves to straight, and has green vinyl grips
- M-3R - cuts straight, and has yellow vinyl grips
- The recommended maximum cutting capacity is 18 gauge (.049) in low carbon cold rolled steel



ManufacturerNo	Order No.	Regular Price	SALE
M1R	0915069	43.02	34.41
M2R	0915075	43.02	34.41
M3R	0915078	43.02	34.41

44927



Phillip Bits Power Drive - 1/4" Drive

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



Tip Size	Drive Size	Overall Length	Model No	Order No.	Regular Price	SALE
#0	1/4"	1 15/16"	4910X	0912377	5.15	4.62
#0	1/4"	2 3/4"	4910-AX	0912376	6.20	5.56
#1	1/4"	1 15/16"	491X	0912381	4.58	4.10
#1	1/4"	2 3/4"	491-AX	0912378	5.15	4.62
#1	1/4"	3 1/2"	491-BX	0912379	6.61	5.92
#1	1/4"	6"	491-CX	0912380	8.10	7.26
#2	1/4"	1 15/16"	492X	0912389	3.21	2.88
#2	1/4"	2 3/4"	492-AX	0912384	4.48	4.01
#2	1/4"	3 1/2"	492-BX	0912387	5.24	4.69
#2	1/4"	6"	492-CX	0912388	10.23	9.16
#3	1/4"	1 15/16"	493X	0912393	3.52	3.16
#3	1/4"	2 3/4"	493-AX	0912391	4.54	4.07
#3	1/4"	3 1/2"	493-BX	0912392	5.32	4.77

786



Easy Snip Utility Shears

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



Overall Length	Order No.	Regular Price	SALE
8 1/2"	0915106	33.47	26.78
10 1/2"	0915178	95.66	76.52

11672



Dead Blow Hammer with Polyurethane Head

- Polyurethane Head is Resistant to Cuts, Splits, Abrasions and Extreme Cold Temperatures
- Steel Shot Filled Head Creates Dead Blow Effect Reducing Rebound from the Striking Surface
- Steel Handle Welded to Head Assembly for Strength and Durability



Head Material	Head Weight	Handle Material	Order No.	Regular Price	SALE
Polyurethane	24 oz	Rubber	0905572	75.91	60.73

61347



Power Tools



Heavy Duty Right Angle Die Grinder

- Lockoff lever throttle
- Comfort Grip
- Aluminum Housing
- Recommended hose size: 3/8" (10mm)



Type of Power	Air Inlet Size	Maximum RPM	Average Air Consumption	Order No.	Regular Price	SALE
Air	1/4" NPT	20,000	35 cfm	1461848	346.08	242.26

61279



Air Powered Pencil Grinder 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



Maximum RPM	Order No.	Regular Price	SALE
60,000	1097065	375.14	300.12

1191



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



Air Inlet Size	Disc Diameter	Maximum RPM	Order No.	Regular Price	SALE
1/4" NPT	5"	12,000	1096853	351.40	316.26

1172



Dynafire® II Contact Arms



Belt Width	Belt Length	Wheel Width	Wheel Diameter	Order No.	Regular Price	SALE
1/2"	18"	3/8"	1/4"	1096355	190.90	171.81
1/2"	18"	3/8"	5/8"	1096324	103.08	92.78
1/8", 1/4" or 1/2"	18"	3/8"	1"	1096325	103.75	93.38
5/8" or 3/4"	18"	5/8"	3/4"	1096326	118.79	106.92

7370



Contact Wheels For Dynafire® and Dynafire II® Contact Arms



Wheel Width	Wheel Diameter	Material	For Use With	Order No.	Regular Price	SALE
1/8"	5/8"	Rubber	11216	1096311	46.06	41.45
3/8"	1/4"	Steel	11300	1096363	99.48	89.53
3/8"	5/16"	Steel	11213	1096308	64.51	58.06
3/8"	5/8"	Rubber	11218, 11203, 11304	1096312	51.24	46.12
3/8"	1"	Radiused Rubber	11219, 11204	1096313	51.09	45.98
3/8"	1"	Tapered Urethane	11232	1096316	85.65	77.08
5/8"	3/4"	Rubber	11206	1096350	59.40	53.47

7361



DEWALT Impact Wrench

- Compact & lightweight design - only ~5.7" front-to-back and ~3.4 lbs for easy use in tight spaces
- Powerful fastening performance - delivers up to 1,800 in-lbs of torque for automotive and jobsite tasks
- High-speed efficiency - up to 2,300 RPM and 2



Handle Type	Maximum RPM	Order No.	Regular Price	SALE
Anti-Slip	0-2,300	1088953	299.82	269.84

61304



M18 FUEL™ Braking Grinder

- POWERSTATE™ Brushless Motor: Purposely built for the M18 FUEL™ 4-1/2" / 5" Braking Grinder with ONE-KEY™ delivers 8,500 RPM to provide the power to complete the toughest grinding and cutting applications.
- REDLINK PLUS Intelligence: Most advanced system of electronics in the industry, enabling communication between batteries and tools, allowing for unmatched levels of performance, protection, and compatibility.
- REDLITHIUM™ HIGH OUTPUT™ Battery Pack (Not Included): Provides 50% more power and runs 50% cooler versus standard REDLITHIUM™ Battery. Superior pack construction, electronics and performance deliver more work per charge and more work over pack lifespan than any battery on the market.
- Includes a RAPIDSTOP™ Brake, to quickly stop accessories and Enhance Safety
- Optimized geometry to prevent rounding
- Tool-Free Guard Adjustment for faster guard installations and adjustments



Disc Diameter	Maximum RPM	Battery and Charger	Spindle Size	Order No.	Regular Price	SALE
5"	8,500	No	5/8"-11	7436632	624.96	531.22

61244



M18 FUEL™ 1/2" High Torque Impact Wrench with Friction Ring

- The MILWAUKEE M18 FUEL 1/2" High Torque Impact Wrench w/ Friction Ring is the most power-dense impact wrench in its class, provides greater access in tight spaces, and maximizes productivity through faster removal speeds.
- The POWERSTATE Brushless Motor delivers up to 1,200 ft-lbs of Fastening Torque and 1,600 ft-lbs of Nut-Busting Torque when paired with the M18 REDLITHIUM FORGE Batteries, while the compact size at 7.6" in length gives users greater access in tight spaces.



Drive	Torque	Order No.	Regular Price	SALE
1/2"	1,200 feet/lbs	8993277	669.76	569.30

61245



M12 FUEL™ 1/4" Hex 2-Speed Screwdriver

- POWERSTATE™ Brushless motor: delivers up to 325 in. lbs of torque with maximum sustained torque to complete a variety of applications

- REDLINK Plus™ Intelligence: The most advanced system of cordless power tool electronics. provides optimized performance and overload protection using total system communication between tool, battery and charger

- REDLITHIUM™ Battery Technology: Superior performance delivers more work per charge and more work over pack life than any battery on the market

- 5-Year tool warranty



Chuck Size	Torque	Order No.	Regular Price	SALE
1/4" Hex	350 inch/lbs	1089927	350.90	298.26

61246



Hand Tools



Mill Files

- Excellent for a wide range of applications such as sharpening, draw filing, lathe work and general shop use
- Mill files are single cut on the sides and edges, and taper towards the point in width
- 2nd cut file, a medium file designed for moderate stock removal
- Bastard file, a coarse file designed for fast removal of stock material
- Smooth file, a fine file designed for making an almost smooth surface



2nd Cut			
Overall Length	Order No.	Regular Price	SALE
8"	0796230	17.36	11.28
10"	0796234	22.26	14.48

Bastard			
Overall Length	Order No.	Regular Price	SALE
10"	0796232	17.15	11.14

Smooth			
Overall Length	Order No.	Regular Price	SALE
4"	0796223	16.80	10.92
6"	0796227	17.36	11.28
10"	0796235	24.15	15.69

2266



Torx® Screwdrivers

- Round blades
- Hardened steel
- Maximum durability
- Sure fit tips
- Soft handles



Tip Size	Blade Length	Order No.	Regular Price	SALE
T5	2 1/2"	0883857	9.72	7.77
T6	2 1/2"	0883859	9.70	7.76
T7	2 1/2"	0883861	9.42	7.53
T8	2 1/2"	0883863	9.42	7.53
T9	2 1/2"	0883865	10.50	8.40
T10	3"	0883867	10.58	8.47
T15	3"	0883869	12.11	9.69
T20	4"	0883871	11.66	9.32
T25	4"	0883873	13.87	11.10
T30	4 1/2"	0883877	18.59	14.87
T40	5.1"	0883879	19.74	15.79

17693



22-Piece MagicRing Ball End Hex L-Key Set, 66992

- 22-Piece Inch & Metric Combo Set
- Includes the most commonly used hex sizes.
- MagicRing® Screw Holding Technology - Hardened spring steel compression ring securely holds fasteners for one-handed installation and removal.
- Ball End Hex Design - Enables fastening at angles up to 25°, making it easier to reach screws in tight or obstructed spaces.



Sizes Included	Model No.	Order No.	Regular Price	SALE
0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	66992	0885134	167.96	134.37

61277



Metric Soft Grip Side Drive Balldriver T-Handles

- Soft Grips for incredible comfort
- Chrome-V-Moly Super Tool Steel
- Industrial black finish blades
- Ergonomic shape for max power
- Ball and hex drive



Hex Key			
Ball End Size	Order No.	Regular Price	SALE
2 mm	0883344	9.49	7.59
2.5 mm	0883346	9.56	7.64
3 mm	0883348	10.57	8.46

Dual Drive Ball End Hex			
Ball End Size	Order No.	Regular Price	SALE
4 mm	0883350	11.38	9.10
5 mm	0883352	13.65	10.92
6 mm	0883353	14.52	11.62
8 mm	0883355	21.17	16.94
10 mm	0883357	27.80	22.25

1136



8 Pc. Hex Soft Grip T-Handle Balldriver Sets

- Available in fractional or metric
- Two tools in one
- Dual drive



Sizes Included	Order No.	Regular Price	SALE
2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	0883381	117.56	94.05
1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	0883382	110.19	88.16

1130

STANLEY**6 Pc. Precision Screwdriver Set**

- Swivel-head handles provide precision and reach
- Tough, plastic handles with soft cushion grip for comfort
- Plastic storage case included



Included	Order No.	Regular Price	SALE
Standard 1.4 mm, 2.0 mm, 2.4 mm, 3.0 mm; Phillips 0 Pt., 1 Pt.; Plastic Storage Case	0901939	16.13	12.91

61412

STANLEY**Compo-Cast® Soft-Face Sledge Hammer - 5 Lbs.**

- Non-sparking, soft-face sledgehammers
- Uni-Cast™ construction of non-ferrous materials eliminates sparking and won't absorb liquids
- No exposed metal on face, head or shaft
- Dead blow function eliminates bounceback when striking hardened surfaces
- Soft face helps prevent marring
- Steel reinforced handle provides strength and resists breaking on overstrike
- Urethane covering helps reduce noise
- Flat area on head allows upright storage



Order No.	Regular Price	SALE
0901892	207.49	166.00
0901894	511.81	409.44

8678

STANLEY**Slip Joint Pliers**

- Adjustable joint design used for grasping and turning
- Oil-resistant dipped handle allows for a comfortable grip
- Drop-forged steel is strong and durable
- Meets ANSI specifications



Overall Length	Maximum Capacity	No. of Jaw Positions	Model No	Order No.	Regular Price	SALE
6"	1/2"	2	84-097	0901393	15.92	12.74
8"	1 3/4"	2	84-098	0901394	20.37	16.30

11472

**Ball End L-Wrenches**

- Ball End inserts into a screw at a 25 degree working angle
- Ball End saves time by quickly funneling tool into screw
- 25° angle allows natural hand and wrist movement



Torx Size	Arm Length	Blade Length	Order No.	Regular Price	SALE
5/64"	0.61"	3.2"	1125021	1.99	1.58
3/32"	0.65"	3.4"	1125022	2.08	1.65
7/64"	0.70"	3.6"	1125023	2.32	1.85
1/8"	0.75"	3.8"	1125024	2.43	1.94
9/64"	0.80"	4"	1125025	2.43	1.94
5/32"	0.84"	4.2"	1125026	2.52	2.00
3/16"	0.94"	4.5"	1125027	2.94	2.34

61303

**22-Piece Ball End L-Wrenches**

- Standard and metric
- Ball driver L-wrenches save time in hard to reach and blind locations
- ProGuard finish is 5 times more effective against rust



Driver Style	Arm Type	Set Includes	Order No.	Regular Price	SALE
Ball End Hex	Long	.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", 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm	0880542	65.42	52.06

58396



Faceshields & Headgear

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



Face Shield

Shield Width	Shield Height	Shield Thickness	Shield Material	Order No.	Regular Price	SALE
15 1/2"	8"	0.040"	Polycarbonate	0786098	5.67	4.26
15 1/2"	10"	0.040"	Polycarbonate	0786087	5.95	4.47

Headgear

Width	Order No.	Regular Price	SALE
6 1/2" 7 3/4"	0786088	18.94	14.21

2621



MCR Safety 6062 NitrShield Stealth Disposable Industrial Grade Nitrile Gloves

6 mil - Powder Free

- 12 inches in length
- Component materials comply with all federal regulations for food contact
- Industrial Food Service Grade
- Rolled Cuff
- Textured Grip
- Ambidextrous
- Black color hides dirt and oils



Material	Powder Style	Color	Size	Order No.	Regular Price	SALE
Nitrile	Powder Free	Black	Medium	0784336	31.19	24.95
Nitrile	Powder Free	Black	Large	0784335	31.19	24.95
Nitrile	Powder Free	Black	X-Large	0784338	31.19	24.95

61367



MCR Safety NitrShield Disposable Nitrile Gloves w/ Grippaz Technology

- Powder free disposable black nitrile gloves
- 9.5 inches in length
- 6 mil thickness
- Fish-scale pattern grip
- Embossed internal grip provides extra traction
- Textured finish
- Touchscreen Friendly
- Ambidextrous
- Component materials comply with all relevant federal regulations for food contact



Size	Color	Order No.	Regular Price	SALE
Medium	Orange	0784317	40.95	32.76
Large	Orange	0784316	40.95	32.76
X-Large	Orange	0784319	40.95	32.76
Medium	Black	0784312	40.95	32.76
Large	Black	0784311	40.95	32.76
X-Large	Black	0784314	40.95	32.76

61238



Moldex 2300N95 Disposable Particulate Respirator with Exhale Valve

NIOSH Approved

- LASTS LONGER LESS WASTE Exclusive DURA-MESH SHELL protects the filter media, so it stays cleaner-looking longer The shell also resists collapsing in hot, humid environments, so the respirator holds its shape longer and the result is fewer respirators used and lower costs
- EXHALE VALVE Lets workers breath easier and stay cooler
- MORE COMFORT LESS PRESSURE The face piece is naturally contoured and the molded pinch free nose bridge seals easily without a metal nose band
- MADE IN AMERICA Quality you can trust
- SUSTAINABLE SOLUTIONS 100% PVC-Free, like all Moldex products and packaging



Style	Order No.	Regular Price	SALE
N95	9721500	68.05	57.85

61272



Moldex 2400 N95 Disposable Particulate Respirator

Plus Nuisance Organic Vapors with Exhale Valve, Size Medium/Large, NIOSH Approved

- USE IN WELDING, FOUNDRY, WASTE DISPOSAL AND OTHER APPLICATIONS Where there are nuisance levels of organic vapors
- LASTS LONGER LESS WASTE Exclusive DURA-MESH SHELL protects the filter media, so it stays cleaner-looking longer The shell also resists collapsing in hot, humid environments, so the respirator holds its shape longer and the result is fewer respirators used and lower costs
- EXHALE VALVE Lets workers breath easier and stay cooler
- MORE COMFORT LESS PRESSURE The face piece is naturally contoured and the molded pinch free nose bridge seals easily without a metal nose band
- GET COMFORTABLE With softspun lining and soft foam nose cushion



Style	Type	Order No.	Regular Price	SALE
N95	Disposable	9721446	119.15	101.28

61247



Bouton® Optical Zenon Z13™

- Lightweight, rimless design provides all day user comfort
- Flexible, rubber tip temples provide a secure fit without uncomfortable pressure points
- Molded nose bridge design to fit the vast majority of users
- Meets ANSI Z87.1+
- Meets CSA Z94.3



Type	Lens Color	Frame Color	Order No.	Regular Price	SALE
Rimless Frame	Clear	Clear	1110960	3.12	2.49

61248



Bouton Optical Lens Cleaning Towelette Dispenser

- Pre-moistened towelettes
- Ideal for safety glasses, goggles or faceshields
- Anti-Fog, Anti-Static, Anti-Streaking formula
- Dispenser can also be easily placed on walls
- 100 Towelettes per dispenser
- Individually foil packaged



Order No.	Regular Price	SALE
1677758	12.25	9.80

6141



Dexterity® Cold Weather winter gloves with Water-resistant Protection

- A napped lining provides excellent insulation without adding bulk, keeping hands warm in temperatures down to -5°C / 23°F
- Crinkle-grip palms ensure a strong, steady grip in wet and oily conditions
- Treated to provide water resistance
- Orange backing improves visibility in poor weather conditions



Size	Cut Rating	Puncture Rating	ManufacturerNo	Order No.	Regular Price	SALE
Medium	Level A3,Cut 360	Level 4	TKTAGLX-M	0115759	13.72	10.29
2X-Large	Level A3,Cut 360	Level 4	TKTAGLX-2XL	0115762	13.72	10.29
3X-Large	Level A3,Cut 360	Level 4	TKTAGLX-3XL	0115763	13.72	10.29

1042



Emerald CX® Winter/Cold Gloves Provides Warmth & Cut protection

- Blended DuPont™ Kevlar® and steel knit for 360°
- An acrylic fleece lining provides cold weather protection down to -5°C / 23°F
- A soft, fleece lining keeps hands warm, dry and comfortable
- A PVC palm coating provides a strong, steady grip in wet or dry conditions
- Touchscreen compatible to seamlessly move between tasks



Size	Order No.	Regular Price	SALE
Small	0115226	34.97	26.24
Medium	0115227	34.97	26.24
Large	0115228	34.97	26.24
X-Large	0115229	34.97	26.24
2X-Large	0115230	34.97	26.24

1045



Lens Cleaning

Towelettes

- For plastic, glass and polycarbonate lenses
- Anti-fog, anti-static formula
- Perfect for safety goggles and glasses
- 100 Individually packaged towelettes
- Lens Cleaning Station
- Includes 16oz. bottle, anti-fog/static cleaning solution and 1200 tissues
- Can be attached to a wall



Order No.	Regular Price	SALE
0784698	19.74	13.82
0784697	41.44	29.01

1046



730

- Chemical-resistant
- Made from a special nitrile compound that is resistant to a broad range of solvents oils, animal fats and other chemicals
- Grip makes wet work easier and safer
- Coating: Nitrile- Color: light green
- Length: 13"



Size	Order No.	Regular Price	SALE
X-Small	1201501	3.40	2.55
Small	1201502	3.40	2.55
Medium	1201503	3.40	2.55
Large	1201504	3.40	2.55
X-Large	1201505	3.40	2.55
2X-Large	1201506	3.40	2.55

4046



Atlas® 380

- Strong grip on wet & dry surfaces
- Open back reduces perspiration
- Extended-cuff for added protection
- Mimics the curvature of a human hand to reduce fatigue
- Optimal dexterity and comfort
- Lint-free liner
- Coating: foam nitrile
- Liner: seamless knit, 13-gauge
- Color: blue/ black palm



Size	Order No.	Regular Price	SALE
Small	1201701	7.00	5.25
Medium	1201702	7.00	5.25
Large	1201703	7.00	5.25
X-Large	1201704	7.00	5.25

8868



PROCELL® PROFESSIONAL BATTERIES

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
9V	12	4133352748	1617348	5.12	3.85
AAA	24	4133353648	1617344	1.19	0.90
AA	24	4133352148	1617345	1.19	0.90
C	12	4133311440	1617346	2.88	2.17
D	12	4133311340	1617347	3.43	2.58

PROCELL High Power Lithium

Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
3V	12	4133300438	0394127	8.01	6.01
3V	12	4133303456	0394128	8.01	6.01

PROCELL INTENSE

Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
9V	12	4133303716	0440438	5.17	3.88
AAA	24	4133303715	0440429	1.41	1.06
AA	24	4133303437	1617350	1.51	1.13
C	12	4133303423	1617351	3.36	2.52
D	12	4133303424	1617352	3.79	2.84

PROCELL Lithium Coin/Cell

Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
3V	5	4133303459	0394124	2.86	2.14
3V	5	4133303458	0394125	2.49	1.99
3V	5	4133303457	0394126	2.49	1.88

1054



Particulate Vapor Respirator, R95

- Designed to meet NIOSH certification standards
- Some models available with 3M Cool Flow Exhalation Valve to help release warm and moist exhaled breath from inside the respirator
- Adjustable noseclip options help provide a custom and secure seal
- Some models available with fully adjustable buckle straps or dual elastic headbands for maximum comfort and effectiveness
- 3M proprietary filter media designed for ease of breathing
- Some models available with Activated Carbon Filter layer for the control of nuisance level organic vapors
- Some models available with flame resistant layers for applications such as welding or soldering which combines with cake resistant filter media to help prevent caking of particles when sanding or grinding



Style	Order No.	Regular Price	SALE
8247	0438376	8.01	6.80

50253



3M™ Peltor™ Optime™ 105 Series, Behind-the-Head

- Recommended for noise levels up to 105 dBA
- Designed with wide, softly padded headband and stainless steel headband wires
- Liquid and foam filled cushions for a better seal and low surface pressure



Noise Reduction Rating	Style	Order No.	Regular Price	SALE
29 dB	Behind-the-Head	0772454	62.61	53.21

1033



3M™ Peltor™ Optime™ 101 Over-The-Head

- Protection up to 101 dBA in loud noise areas where even minimal exposure can result in hearing damage
- Bring harmful noise levels down to a safe level so you can work longer with less danger
- Over-the-Head earmuffs give you the most protection and offer all day comfort



Noise Reduction Rating	Style	Order No.	Regular Price	SALE
27 dB	Over-the-Head	0772457	47.94	40.74

7854



16010 Heavy Duty Side Split

- Full feature gunn
- 2" Safety cuff
- Heavy side split cow leather
- Rich chrome tanned for durability
- Sewn with DuPont™ KEVLAR®
- Protective rubberized cuff
- 100% Cotton palm lined



Size	Order No.	Regular Price	SALE
Medium	0784125	17.49	13.99
Large	0784124	17.49	13.99
X-Large	0784126	17.49	13.99

8135



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	Lens Coating	Frame Color	Magnification	Order No.	Regular Price	SALE
Clear	Anti-Fog	Silver	1.5x	0774822	29.44	25.03
Clear	Anti-Fog	Silver	2.0x	0774823	29.44	25.03
Clear	Anti-Fog	Silver	2.5x	0774824	29.44	25.03

1020



3M™ Particulate Respirator 8210, N95

- N95 Respirator
- Adjustable nose clip
- Cushioning nose foam
- Great for grinding, bagging, sanding, sweeping and other dusty operations
- Min. 20 per box



Style	Type	Order No.	Regular Price	SALE
8210	Half Facepiece Respirator	0778534	1.96	1.67

7868



REUSABLE TPR CORDED EAR

- Pre-formed plug shape with no rolling required makes insertion simple
- Self-sealing flanges give all day comfort
- Rigid stem makes insertion easy and reduces the risk of contamination
- Corded versions use a non-resonating textile cord for comfort and easy storage
- Cord can be detached for added safety when working around machines, or when the TPR plug is to be cleaned using soap and water
- Can be reused several times, making them very cost efficient
- Moderate attenuation allows for safe usage that blocks out hazardous noise yet allows warning signals and voices to be clearly understood



Noise Reduction Rating	Style	Standard Pack	Order No.	Regular Price	SALE
27 dB	Reusable / Corded	100	1159678	159.60	127.68

60702



Heardwearing Workers

- Heavy-duty side split leather palm
- 2-1/2" Rubberized safety cuff, wing thumb, gunn pattern
- Canvas back with leather knuckle strap



Size	Order No.	Regular Price	SALE
Medium	0783495	13.08	9.81
Large	0783493	13.08	9.81
X-Large	0783498	13.61	10.21

3237



Multi-Purpose Nitrile

- 100% Gray nitrile dipped fingers and palms
- Outstanding comfort and fit
- Superior tactile sensitivity
- 13 Gauge nylon shell



Size	Order No.	Regular Price	SALE
X-Small	0783550	2.53	1.90
Small	0783546	2.84	2.13
Medium	0783544	2.59	1.95
Large	0783542	2.59	1.95
X-Large	0783548	2.59	1.95

8405



OTS®

- Designed to better fit over today's prescription eyewear
- Lightweight nylon temples that adjust length and pitch
- Scratch resistant



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Scratch Resistant	Black	0784867	9.84	6.89

8639



Wrist, Elbow, and Knee Supports

ProFlex® 300 Round Cap Knee Pads

- Rounded cap allows for swiveling and pivoting
- 840D nylon fabric
- Wicked™ treated
- 1/2" EVA padding
- Woven elastic straps
- Velcro or buckle closure
- ProFlex® 500 Elbow Support
- Durable construction for tough environments
- Provides wide base of support
- Effective relief from pain and discomfort
- ProFlex® 4000 Wrist Support
- Fully-adjustable for an exact fit
- Patented open-center stay™ reduces pressure on the median nerve
- Anti microbial interior fabric



Knee Pads				
Size	Hand	Order No.	Regular Price	SALE
One Size	-	0931442	46.94	37.55
One Size	-	0931441	49.53	39.62
Elbow Support				
Size	Hand	Order No.	Regular Price	SALE
Medium	-	0931508	23.14	18.51
Large	-	0931507	23.14	18.51
X-Large	-	0931510	23.14	18.51
Wrist Support				
Size	Hand	Order No.	Regular Price	SALE
Medium	Right	0931462	27.47	21.98
Medium	Left	0931460	27.47	21.98
Large	Right	0931461	27.47	21.98
Large	Left	0931459	27.47	21.98

1031



Nitrishield® 6015 Disposable Nitrile

- Chlorinated
- Textured finish for better grip
- Latex free
- Resistance to a wide variety of chemicals
- 4 Mil Thickness
- Powder free nitrile



Size	Order No.	Regular Price	SALE
Medium	0784307	19.07	15.26
Large	0784306	19.07	15.26
X-Large	0784309	19.07	15.26

8185



ProTac® 2 AA Flashlight

- Bulb: C4" LED
- Run time: High - 2 hrs, 155 lumens, 3,300 candela peak beam intensity Low - 36 hrs 11 lumens, 200 candela peak beam intensity Strobe - 4 hrs
- Body: Durable, anodized aluminum construction with impact resistant tempered glass lens
- Size: 6.14"
- Battery: 2 AA alkaline (included)
- Features: Ten-Tap® programming: three selectable programs high/strobe/low; high only; low/high, IPX7 waterproof to 1 meter for 30 minutes, 2 meter impact resistance, nylon holster included



Order No.	Regular Price	SALE
0771908	142.70	106.46

8908



MicroStream® Flashlight

- Bulb: C4 LED Technology
- Run time: 2 hrs. 15 min.
- Lumens: 28 Lumens
- Body: Type II MIL-SPEC aircraft aluminum
- Battery: 1 AAA (included)
- Size: 3.5" Long
- Features: Tailcap switch for momentary on/off. O-ring sealed, shock proof and drop-tested construction. Water resistant per IPX4; in accordance with specification EN 60529:1992. High Strength "Break Away" safety lanyard. Unbreakable pocket / hat clip



Order No.	Regular Price	SALE
0771872	60.01	44.77

8905



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-A AAA (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	0771864	49.99	37.29
Blue	0771866	49.99	37.29

2372

STEINER

High Temperature Work Gloves

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



Color	Maximum Temperature	Manufacturer No.	Order No.	Regular Price	SALE
Yellow	600 Degrees F	08314	1142289	120.09	102.07
White	2000 Degrees F	07114	1142288	207.51	176.39

3751



Endura(R) 361DLXLWL

Extreme cold protection lineman mitts for temperatures down to -45(insert degree mark)C / -49(insert degree mark)F

- Liner is removable and washable
- Treated with Waterstop to repel water, oil and stains
- Gauntlet cuffs feature retroreflective silver strips with hi-viz overlay for enhanced visibility
- Leather performance patch on palm and thumb reduces abrasion in critical areas



Size	Color	Order No.	Regular Price	SALE
Small	White	0113458	90.41	72.32
Medium	White	0113459	90.41	72.32
Large	White	0113460	90.41	72.32
X-Large	White	0113461	90.41	72.32

61432



Sparkplugs® Disposable Earplugs

- Extra-soft, low-pressure foam for comfort and fit
- Non-irritating smooth surface
- Metal detectable earplugs and cord for food processing applications



Type	Noise Reduction Rating	Style	Order No.	Regular Price	SALE
Earplug	33 dB	Corded/Disposable	9721484	117.82	100.16
Earplug	33 dB	Corded/Disposable	9721490	72.74	61.84
Earplug	33 dB	Uncorded/Disposable	3930142	71.09	60.42
Earplug Jar	33 dB	Uncorded/Disposable	9721435	22.96	19.52
EcoStation 6703 Earplug Dispenser	33 dB	Uncorded/Disposable	9721576	180.11	153.09
EcoStation Earplug Dispenser Refill	33 dB	Uncorded/Disposable	9721577	170.16	144.63
PlugStation 6605 Earplug Dispenser	33 dB	Uncorded/Disposable	9721642	97.26	82.67
PlugStation 6644 Earplug Dispenser	33 dB	Uncorded/Disposable	9721569	96.00	81.59
PlugStation 6645 Earplug Dispenser	33 dB	Uncorded/Disposable	9721570	184.62	156.93
PlugStation 6880 Earplug Dispenser	33 dB	Corded/Disposable	9721593	117.14	99.57
PlugStation 6881 Earplug Dispenser	33 dB	Metal Detectable Corded/Disposable	9721594	184.67	156.97
TouchFree EcoStation 6833 Earplug Dispenser	33 dB	Uncorded/Disposable	9721585	285.80	242.93

61337



General Purpose Work Gloves

Black, Polyester Lined, Smooth Grip, Pair, Lint Free

- Seamless knit polyester shell offers increased comfort, finger dexterity and breathability
- Polyurethane coated palm and fingertips provides a secure grip in dry and slightly wet/oily conditions and offers high dexterity and tactile sensitivity
- Knit Wrist helps prevent dirt and debris from entering the glove



Size	Order No.	Regular Price	SALE
X-Small	1113646	1.53	1.22
Small	1113644	1.53	1.22
Medium	1113643	1.53	1.22
Large	1113642	1.53	1.22
X-Large	1113645	1.53	1.22
2X-Large	1113647	1.53	1.22

61249



CONTENDER SPGRK2D

- High cut resistance and ANSI 3 heat protection with dotted PVC palm coating to balance flexibility, breathability, and grip



Cut Rating	Size	Order No.	Regular Price	SALE
Level A6	Small	0115477	15.12	11.34
Level A6	Medium	0115478	15.12	11.34
Level A6	Large	0115479	15.12	11.34
Level A6	X-Large	0115480	15.12	11.34
Level A6	2X-Large	0115481	15.12	11.34

3679



Measuring Tools

brown & sharpe

BesTest® Dial Test Indicators

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



Total Range	Graduation	Dial Reading	Contact Length	Dial Face Diameter	Order No.	Regular Price	SALE
0.008"	0.00005"	0-4-0	1/2"	1 1/2"	1067275	524.86	472.37
0.008"	0.00005"	0-4-0	1/2"	1 1/2"	1067128	634.34	570.91
0.008"	0.0001"	0-4-0	1/2"	1.0"	1067274	511.98	460.78
0.020"	0.0005"	0-10-0	1 7/16"	1 1/2"	1067273	505.54	454.99
0.020"	0.0005"	0-10-0	1 7/16"	1.0"	1067272	483.00	434.70
0.030"	0.0005"	0-15-0	1/2"	1 1/2"	1067271	429.87	386.89
0.030"	0.0005"	0-15-0	1/2"	1.0"	1067269	405.72	365.15
0.030"	0.001"	0-15-0	1/2"	1.0"	1067268	396.06	356.45

3552

Fowler

Test Indicators and Sets

- 0.060" range with 0-15-0 dial reading
- Jeweled movement for smooth, precise operation
- Easy-to-read tilted dial with revolution counter
- Automatic reversal with 210° swivel arc
- Complete set includes dial test indicator, axial support, height gage bar with clamp, contact points, wrench, adaptor sleeve, and hardened case



Indicator Style	Graduation	Dial Face Diameter	Order No.	Regular Price	SALE
Horizontal	0.0005"	1.0"	1078327	238.00	214.20
Horizontal	0.0005"	1.0"	1078336	330.40	297.36
Horizontal	0.0005"	1 1/2"	1078334	421.40	379.26
Horizontal	0.0005"	1 1/2"	1078326	238.00	214.20
Horizontal	0.001"	1.0"	1078328	245.00	220.50
Horizontal	0.001"	1.0"	1078337	366.80	330.12
Vertical	0.0005"	1 1/2"	1078329	254.80	229.32

534

Fowler

Electronic Calipers

- 0.0005" / 0.01 mm resolution with inch/metric conversion
- RS232C direct output
- Preset mode with inside jaw offset
- Fine adjustment screw on all sizes
- Includes wooden case



Measuring Range	Order No.	Regular Price	SALE
0-12"	1078641	441.00	401.31
0-24"	1078626	721.00	656.11
0-40"	1078628	1779.40	1619.25

641

Fowler

Electronic Edge Finders

- Six light ports provide full 360° visibility for easy alignment
- Instant light and audible beep on contact for fast, accurate edge detection
- High repeatability for precise, consistent locating on conductive materials
- Includes LED, 12V battery, and protective case for complete ready-to-use setup



Stylus	Shank	Type	Order No.	Regular Price	SALE
0.200"	1/2"	Electronic Edge Finder	1078924	107.80	98.10
0.400"	3/4"	Electronic Edge Finder	1078926	369.60	336.34

14416

Fowler

Shockproof Dial Calipers

- 4-way measuring with thumb roll
- Solid Stainless Steel construction with silky smooth movement
- Tough shockproof design
- 0.100" / 2 mm range per revolution
- 0.001" / 0.02 mm reading dial face with shop-hardened case



Measuring Range	Order No.	Regular Price	SALE
0-6"	1077787	133.00	119.70
0-6"	1077786	134.40	120.96
0-8"	1077788	203.00	182.70
0-12"	1077790	296.80	267.12

2973



Digital Outside Calipers

- Battery CR2032
- Data output
- Made of Stainless Steel
- Supplied with certification



Measuring Range	Order No.	Regular Price	SALE
0-6"	1225202	118.68	106.81
0-8"	1225203	177.37	159.63
0-12"	1225204	266.77	240.10

518



Dial Indicators

- Lug back
- Limit pointers and bezel clamp provided
- Certificate of inspection included
Standard ASME B89.1.10M-2001
- Graduation 0.001"



Model No	Total Range	Order No.	Regular Price	SALE
2307-1	1"	1225227	73.25	65.93
2307-2	2"	1225228	175.92	158.33

666



Digital Measuring Microscope

- 0x to 200x magnification range
- Short focus distance design
- Built-in adjustable LED illumination with USB power supply
- Image and video capture with included software
- Class 2B and ANSI B1.2 compliant



Order No.	Regular Price	SALE
1225193	797.43	757.55

678



Magnetic Indicator Holders

- For electronic, dial, and test indicators
- 132 lbf magnetic holding force



Order No.	Regular Price	SALE
1225325	66.33	59.70
1225326	61.14	55.02

9502



Pocket Surf® IV Portable Surface Roughness Gages

- Portable surface roughness gage with piezoelectric probe
- 5.08 mm / 0.2" per second traverse speed
- Maximum stylus force of 150.0 mN / 1500 mgf
- Battery powered with 9V battery included
- Complete kit includes fitted case, general purpose probe, reference specimen, and riser plate



Order No.	Regular Price	SALE
1079106	5053.92	4913.35
1079107	5053.92	4913.35

9573



Small Shockproof Dial Indicators

- 0.01 mm / 0.0005" reading
- 3 mm / 0.120" measuring range
- 8 mm shank diameter
- 1-3/8" dial diameter



Order No.	Regular Price	SALE
1079151	232.45	214.10
1079150	212.95	196.13

9574



Measuring Tools

Mitutoyo

Dial Calipers

- Smooth sliding operation
- Shock protection for durability
- Lock screw on bezel
- Titanium nitride coated main beam on 6" and 8" models
- $\pm 0.002''$ accuracy



Measuring Range	Order No.	Regular Price	SALE
0-6"	1044633	229.60	195.16
0-6"	1044630	229.60	195.16
0-6"	1044635	229.60	195.16
0-6"	1044631	229.60	195.16
0-6"	1044625	411.60	349.86
0-6"	1044629	229.60	195.16
0-6"	1044623	337.40	286.79
0-6"	1044632	229.60	195.16
0-8"	1044628	312.20	265.37
0-8"	1044636	334.60	284.41
0-12"	1044640	649.60	552.16
0-12"	1044639	509.60	433.16
0-12"	1044642	476.00	404.60

519

Mitutoyo

Test Indicators with Dovetail Mount

- Jeweled bearings for smooth, precise movement
- Automatic reverse feature
- Basic unit includes carbide point and 3/8" stem (8 mm metric)
- Complete unit includes dovetail clamp, holding bar, carbide ball contact points, and fitted plastic case



Order No.	Regular Price	SALE
1044903	348.60	296.31
1044908	277.20	235.62
1044909	306.60	260.61
1044942	362.60	308.21
1044972	338.80	287.98
1044986	404.60	343.91
1044882	235.20	199.92

8720

Mitutoyo

Digimatic Calipers

- 5-digit LCD display with dual readout and engraved scale backup for reliability
- Measures inside, outside, depth, and step dimensions with precision
- Absolute scale system with 0.0005" repeatability for consistent accuracy
- Stainless Steel construction with epoxy-embedded linear scale for durability
- Thumb wheel on smaller models for smooth, controlled adjustment
- Multi-function controls: on/zero, inch/metric conversion, and data hold (4", 6", 8", 12" models)



Measuring Range	Order No.	Regular Price	SALE
0-4"	1044442	284.20	255.78
0-4"	1596155	390.60	351.54
0-6"	1044452	637.00	573.30
0-6"	1044455	680.40	612.36
0-6"	1044445	331.80	323.82
0-6"	1596156	459.20	413.28
0-6"	1596158	649.60	584.64
0-6"	1596159	679.00	611.10
0-8"	1044457	708.40	637.56
0-8"	1596160	726.60	653.94
0-8"	1596157	550.20	495.18
0-8"	297459B	736.74	716.24
0-12"	1596123	956.20	860.58
0-12"	1596124	819.00	696.15
0-24"	1044494	1638.00	1474.20
0-40"	1044495	3164.00	2847.60

9611

Mitutoyo

AGD 2 Dial Indicators

- 2-1/4" dial face with 0.001" graduation for clear, precise readings
- 1" travel AGD 2 design for reliable general-purpose measurement applications
- Lug back mount with 3/8" stem for secure, stable installation
- Integrated revolution counter for accurate travel tracking and control



Total Range	Dial Reading	Range per Revolution	Order No.	Regular Price	SALE
1.0	0-100	0.100"	1043171	215.60	183.26

2168



IP67 Digimatic Calipers

- IP67-rated coolant-proof caliper with full dust and water protection
- Automatic power off after 20 minutes of inactivity; instantly reactivates when slider is moved
- Compatible with statistical process control and measurement system integration
- Large LCD display for clear, fast readings



Measuring Range	Order No.	Regular Price	SALE
0-6"	1044548	449.40	404.46
0-6"	1044507	449.40	404.46
0-6"	1044513	449.40	404.46
0-6"	1044519	725.20	652.68
0-6"	1044532	578.20	520.38
0-6"	1044536	725.20	652.68
0-6"	1044541	379.40	322.49
0-6"	1044501	379.40	322.49
0-6"	1044528	651.00	553.35
0-6"	1044524	506.80	430.78
0-6"	1044556	449.40	404.46
0-6"	1044554	379.40	322.49
0-8"	1044551	567.00	510.30
0-8"	1044509	567.00	510.30
0-8"	1044521	845.60	761.04
0-8"	1044534	651.00	585.90
0-8"	1044538	845.60	761.04
0-8"	1044544	508.20	431.97
0-8"	1044503	508.20	431.97
0-8"	1044530	800.80	680.68
0-8"	1044526	595.00	505.75
0-12"	1596121	879.20	747.32

9612



500-196-32 Electronic Caliper

- Digital display for fast, clear readings
- Hardened Stainless Steel construction
- 1.97" jaw length for versatile measurement
- ABSOLUTE AOS sensor for stable operation



Measuring Range	Order No.	Regular Price	SALE
0-6"	875228A	294.11	255.83

61350



Dial Gage Holders

- Powerful on/off magnetic base for secure, stable positioning
- Universal top clamp accepts 3/8" stem and dovetail mounts
- Fine adjustment with central locking mechanism and spring-loaded bearing
- True 3-dimensional positioning for precise indicator setup
- Built for rigid, repeatable dial gage holding in demanding applications



Top Arm Length	Bottom Arm Length	Order No.	Regular Price	SALE
3.98"	4.33"	0558808	215.52	183.19
3.98"	4.33"	0558810	205.72	174.86
4.45"	6.43"	0558827	313.73	266.67
5.24"	5.26"	0558823	265.33	225.53
5.24"	5.26"	0558825	263.96	224.36
9.50"	12.8"	0558822	420.98	357.84

530



Double Fine Adjustment Magnetic Base Model DG6160

- Double fine adjustment with unique single-direction bottom adjustment and universal swivel clamp
- Powerful on/off magnetic base with 176 lbf
- Holds 6 mm, 8 mm, 3/8", dovetail, and lug back indicators
- Central locking mechanism with NOGA-designed spring-loaded bearing
- Five-axis holder with fast and easy gauge positioning



Order No.	Regular Price	SALE
0558811	247.95	210.76

9715



Measuring Tools



1/8" Steel Parallel Set

- Made of high-grade Alloy Steel, hardened and ground from 1/8" stock
- Thin style matched pairs with two holes in each parallel
- ± 0.0002 " parallelism in height accuracy
- ± 0.001 " to size in height
- Includes 10 pairs in fitted box



Minimum Height	Maximum Height	Order No.	Regular Price	SALE
1/2"	1 5/8"	1085021	166.33	116.44

542



Tri-Block Sets

- Tolerance: 0.0001"
- Additional tolerance: 0.0003" - 0.0005" (0.005-0.01 mm)
- Hardness: 55-62 HRC
- Fitted plastic case



Overall Length	Overall Width	Overall Height	Order No.	Regular Price	SALE
50 mm	25 mm	75 mm	1085015	56.57	39.61
2"	1"	3"	1085014	33.60	23.52
4"	2"	6"	1085019	338.42	236.89

551



Class ZZ Gage Pin Sets

- Location and gage slot checks
- Hole size and depth verification
- Ground edges for precision
- A10 micro finish or better
- 60 - 63 HRC heat treated
- 2" uniform length with case



Gage Pin Set						
Minimum Diameter	Maximum Diameter	Tolerance Type	Number of Pieces	Order No.	Regular Price	SALE
0.0110"	0.0600"	Minus (No Go)	50	0770847	69.41	48.59
0.0110"	0.0600"	Plus (Go)	50	0770848	69.41	48.59
0.0610"	0.2500"	Minus (No Go)	190	0770851	155.15	108.60
0.0610"	0.2500"	Plus (Go)	190	0770852	155.15	108.60
0.2510"	0.5000"	Minus (No Go)	250	0770857	236.12	165.28
0.2510"	0.5000"	Plus (Go)	250	0770858	236.12	165.28
0.5010"	0.6250"	Minus (No Go)	125	0770861	263.96	184.77
0.5010"	0.6250"	Plus (Go)	125	0770862	279.66	195.76
0.6260"	0.7500"	Minus (No Go)	125	0770865	348.00	243.60
0.6260"	0.7500"	Plus (Go)	125	0770866	351.86	246.30
0.7510"	0.8320"	Minus (No Go)	82	0770869	383.22	268.25
0.7510"	0.8320"	Plus (Go)	82	0770870	371.62	260.13
0.8330"	0.9160"	Minus (No Go)	84	0770873	408.07	285.66
0.8330"	0.9160"	Plus (Go)	84	0770874	408.07	285.66
0.9170"	1.0000"	Minus (No Go)	84	0770877	493.18	345.23
0.9170"	1.0000"	Plus (Go)	84	0770878	475.33	332.72

Gage Pin Set (Certified)						
Minimum Diameter	Maximum Diameter	Tolerance Type	Number of Pieces	Order No.	Regular Price	SALE
0.0110"	0.0600"	Minus (No Go)	50	0770845	102.21	71.55
0.0110"	0.0600"	Plus (Go)	50	0770846	102.21	71.55
0.0610"	0.2500"	Minus (No Go)	190	0770849	266.15	186.31
0.0610"	0.2500"	Plus (Go)	190	0770850	266.15	186.31
0.2510"	0.5000"	Minus (No Go)	250	0770855	455.80	319.06
0.2510"	0.5000"	Plus (Go)	250	0770856	455.80	319.06
0.5010"	0.6250"	Minus (No Go)	125	0770859	467.98	327.59
0.5010"	0.6250"	Plus (Go)	125	0770860	467.98	327.59
0.6260"	0.7500"	Minus (No Go)	125	0770863	497.06	347.94
0.6260"	0.7500"	Plus (Go)	125	0770864	497.06	347.94
0.7510"	0.8320"	Minus (No Go)	82	0770867	605.49	423.84
0.7510"	0.8320"	Plus (Go)	82	0770868	605.49	423.84
0.8330"	0.9160"	Minus (No Go)	84	0770871	707.59	495.31
0.8330"	0.9160"	Plus (Go)	84	0770872	609.32	426.52
0.9170"	1.0000"	Minus (No Go)	84	0770875	817.57	572.31
0.9170"	1.0000"	Plus (Go)	84	0770876	817.57	572.31

9837



Precision Toolroom Black Granite Surface Plates

- Meets or exceeds Federal Specification GGG-P-463c
- Does not rust or corrode
- Does not nick or burr tools
- Retains accuracy for years
- Autocollimator checked for overall accuracy



Length	Width	Thickness	Accuracy	Weight	Order No.	Regular Price	SALE
12"	9"	3"	.00010"	38 lbs	1085462	70.11	49.08
12"	12"	3"	.00010"	60 lbs	1085463	87.61	61.33
18"	12"	3"	.00010"	75 lbs	1085464	116.63	81.65
24"	18"	3"	.00015"	147 lbs	1085466	237.33	166.12
36"	24"	4"	.00020"	418 lbs	1085468	561.09	392.77
48"	36"	6"	.00040"	1,258 lbs	1085470	1317.76	922.43
72"	36"	6"	.00070"	1,850 lbs	1085471	3639.02	2547.31

9932



AGD Dial Indicators

- Flat back, 1/4" lug back, and fitted case included
- Adjustable limit pointers for easy go/no-go reading
- Revolution counter
- Certificate of inspection included, Standard ASME B89.110M-2001
- 1-year warranty



Dial Reading	Dial Diameter	Order No.	Regular Price	SALE
0-50	2-1/4"	1649568	79.56	56.99
0-100	2-1/4"	1649576	71.31	51.09
0-100	2-1/4"	1649570	146.36	104.84
0-100	2-1/4"	1649567	71.31	51.09
0-100	2-1/4"	1649565	71.31	51.09
0-100	2-1/4"	1649569	146.36	104.84
0-100	2-1/4"	1649566	71.31	51.09

674



12" Combination Square Sets

- 2 pc. set includes 12" blade and square head
- 3 pc. set includes 12" blade, square head, and center head
- 4 pc. set includes 12" blade, square head, center head, and protractor head
- Blade graduated in 8ths, 16ths, 32nds, and 64ths



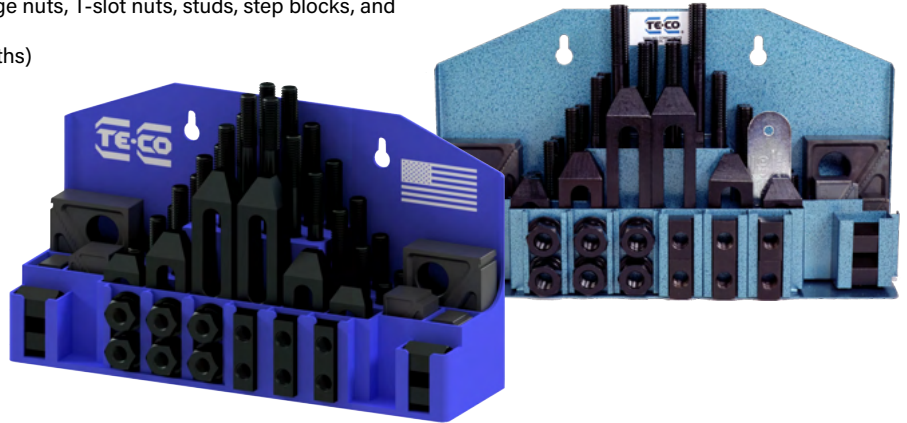
Number of Pieces	Order No.	Regular Price	SALE
2	1079664	50.41	35.29
3	1079665	63.56	44.49
4	1079666	115.98	81.19

680



Machinist Clamping Set for 5/8" Table Slots

- Complete clamping set includes coupling nuts, flange nuts, T-slot nuts, studs, step blocks, and serrated end clamps
- Includes 24 studs (4 each: 3", 4", 5", 6", 7", and 8" lengths)
- Designed for 5/8" table slots with 1/2"-13 T-nuts and studs
- 1202134: Plastic Case | 1203495: Steel Case



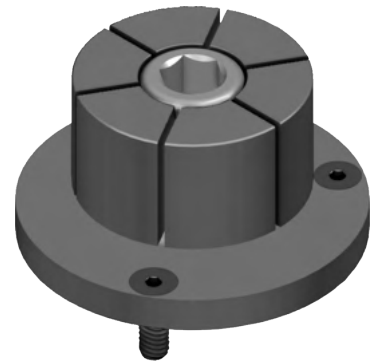
Stud Size	System of Measurement	Type	Order No.	Regular Price	SALE
1/2"-13	Imperial	Machinist Clamping Set	1202134	511.01	383.26
1/2"-13	Imperial	Machinist Clamping Set	1203495	277.2	221.76

2208



ID Expansion™ Clamps

- Low profile
- Ideal for secondary operations on lathe parts
- Easily machined to size on lathe or mill
- Excellent for palletized setups
- Allows more parts per workcube/fixture plate
- Clamp body made of mild steel for machinability
- Tighten with hex key or hydraulic pull cylinders



Type	Diameter	Minimum Diameter	Thread Size	Order No.	Regular Price	SALE
Xpansion Clamp	0.290"	0.160"	#2-56	1206696	62.58	56.32
Xpansion Clamp	0.490"	0.280"	#8-32	1206703	62.58	56.32
Xpansion Clamp	0.560"	0.480"	1/4"-20	1206706	62.58	56.32
Xpansion Clamp	0.790"	0.530"	5/16"-18	1206707	66.71	60.05
Xpansion Clamp	1.060"	0.710"	3/8"-16	1206708	86.59	77.94
Xpansion Clamp	1.390"	0.900"	1/2"-13	1206710	106.75	96.08
Xpansion Clamp	1.650"	1.150"	5/8"-11	1206711	136.85	123.17
Xpansion Clamp	2.030"	1.150"	5/8"-11	1206712	150.15	135.14
Xpansion Clamp	3.060"	1.150"	5/8"-11	1206714	258.58	232.72
Xpansion Clamp	4.060"	1.150"	5/8"-11	1206715	362.74	326.47

2756



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 40 mm, 50 mm 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



Jaw Width	Jaw Opening Capacity	Jaw Height	Overall Length	Model No	Order No.	Regular Price	SALE
4"	6.5"	1.235"	12.5"	DX4	0721735	1098.72	1043.78
6"	9.08"	1.735"	16.81"	DX6	0721736	1125.18	1068.93
8"	10.63"	2.2"	24.01"	DX8	1659998	3182.76	3023.62

1291



Vertical Hold Down Action Clamps

- Ideal for applications requiring holding capacities up to 1,200 lbs
- Applications include assembly, drilling, testing, gluing, and other processing operations
- Oil-resistant ergonomic handle for easy operation
- 4-bar styles include spindle, flanged washer, and nuts
- Solid-bar styles include bolt retainer that can be welded to bar



Holding Capacity	Height Under Clamp Arm	Mounting Length	Mounting Width	Order No.	Regular Price	SALE
100 lbs	.63"	.63"	.94"	0953224	23.84	21.46
200 lbs	.93"	.50"	1.06"	0953248	24.77	22.29
200 lbs	.93"	.50"	1.06"	0953250	28.95	26.05
200 lbs	.93"	.50"	1.06"	0953243	23.93	21.53
375 lbs	1.25"	.75"	1.25"	0953288	32.38	29.15
375 lbs	1.25"	.75"	1.25"	0953290	32.27	29.05
375 lbs	1.25"	.75"	1.25"	0953293	73.3	65.97
600 lbs	1.67"	1.26"	1.77"	0953312	47.91	43.12
1000 lbs	1.98"	1.26"	1.77"	0953385	74.87	67.38

6158

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, 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
8781681	28.77	21.57

61293

STEELMAN®

Bend-A-Light

- 3/16" Diameter bulb provides amazing brightness for tight situations
- Protective cover can be used for an extension
- On/off switch
- Batteries included



Type	Overall Length	Shaft Length	Order No.	Regular Price	SALE
Mini Pro Bend-A-Light	11"	5"	0792694	38.74	32.93
Bend-A-Light	16"	10"	0792688	50.44	42.88

43435

MORSE CUTTING TOOLS

MARXBORE Mechanics Drill Sets

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

- Packaged in plastic clip-on index
- 29 Pcs.: 1/16" - 1/2" x 64ths



Diameter Range	Step Increments	Point Angle (SIG)	Cutting Edge Material	Coating	Order No.	Regular Price	SALE
1/16" to 1/2"	1/64"	135 Degrees	HSS	Black Oxide Gold Oxide	1074058	352.63	282.1

3377

IR Ingersoll Rand

1/3 HP Right 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



Collet/Chuck	Maximum RPM	Order No.	Regular Price	SALE
1/4"	20,000	9145166	343	257.25

1168

PRICES EFFECTIVE OCTOBER 1ST THROUGH DECEMBER 31ST, 2026

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