

Mitutoyo

FEATURED



IDS DIGIMATIC INDICATORS

PG. 33



QUANTUMMIKE DIGITAL OUTSIDE
MICROMETERS

PG. 32



DIGIMATIC CALIPERS

PG. 32

Techniks ER Collet Sets

in Wooden Tray



ER20					
Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
12	2 mm - 13 mm	Techniks	GM70702200	398.61	288.95

ER25					
Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
15	5/32" - 5/8"	Techniks	GM70702599	536.63	398.95

ER32					
Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
18	7/32" - 3/4"	Techniks	GM70703999	603.58	452.95

ER11					
Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
13	1 mm - 7 mm	Techniks	GM70701200	391.40	282.95

ER16					
Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
10	1/32" - 3/8"	Techniks	GM70701699	304.88	213.95

ER40					
Quantity	Diameter Range	BrandName	Order No.	Regular Price	SALE
13	1/8" - 1"	Techniks	GM70704999	484.10	356.95

30936

DREMEL Rotary Tool Kit

Model 3000-1/24

- Variable speed 5,000-32,000 RPM
- EZ Twist™ nose cap with wrench for fast accessory changes
- Cool-running ball bearing construction for smooth and quiet operation
- Replaceable motor brushes extend tool life
- Can be used with all Dremel rotary tool accessories and most attachments
- 2 Year warranty



Order No.	Regular Price	SALE
PH503000124	128.06	106.95

2108

PRO-CHECK PREMIUM Premier Electronic

Calipers

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



Measuring Range	Order No.	Regular Price	SALE
0-6"/150mm	PC20EDC6	73.20	50.95
0-8"/200mm	PC20EDC8	81.02	56.95
0-12"/300mm	PC20EDC12	135.12	100.95

4572

KANTWIST Standard "T" Handle Style Clamps

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



Maximum Opening Capacity	Open Throat Depth	Closed Throat Depth	Load Capacity	Order No.	Regular Price	SALE
1"	3/8"	1/2"	350 lbs	SE64401	22.32	17.95
2"	1 1/8"	1 1/4"	800 lbs	SE64405	31.52	24.95
3"	1 1/4"	1 3/4"	1500 lbs	SE64410	50.30	39.95
9"	3 3/8"	5 1/4"	2500 lbs	SE64430	137.74	109.95
12"	12"	7"	6000 lbs	SE64440	228.11	181.95

1283

8 mil Nitrile Exam Gloves 12 Inch Powder-Free

- Made with thicker 8 mil nitrile for puncture resistance
- Nitrile naturally forms to hand
- Extra length for forearm coverage
- Blue
- Designed with superior chemical resistance
- 50 pcs per box



Size	Order No.	Regular Price	SALE
Medium	KB411010	8.76	6.95
Large	KB411015	8.88	6.95
X-Large	KB411020	9.60	7.95

30871

PRM PRO 3/8" Soft Comfort Mats

Safety Yellow/Black

- Ergonomically styled anti-fatigue mats
- Great for light to moderate standing environments
- Yellow safety borders increase visibility to make work areas safer and have beveled edge to reduce tripping
- Economical solution for improving workers' comfort and productivity
- 100% Closed-cell PVC foam



Length	Width	Order No.	Regular Price	SALE
3"	2"	RV6612150	22.67	18.95
5"	3"	RV6612155	56.73	47.95

24277

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

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

Combo Set Includes:

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

**LB50GS4****LB50GS3**

Type	Order No.	Regular Price	SALE
Tongue and Groove Pliers Set	LB50GS3	65.46	51.95
Combo Pliers Set	LB50GS4	81.42	60.95

22933

**Center Drills****Plain Type 60°**

- Right hand
- High speed steel



Size	Drill Bit Size / Cutting Diameter (DC)	Overall Length (OAL)	Order No.	Regular Price	SALE
#0	1/32"	1-1/4"	AV4210032	10.12	8.95
#1	1/8"	1-1/4"	AV4110100	7.06	5.95
#2	3/16"	1-7/8"	AV4110200	7.37	5.95
#3	1/4"	2"	AV4110300	7.68	5.95
#4	5/16"	2-1/8"	AV4110400	7.92	6.95
#4.5	3/8"	2-1/2"	AV4114500	10.93	8.95
#5	7/16"	2-3/4"	AV4110500	12.58	10.95
#6	1/2"	3"	AV4110600	18.90	15.95
#7	5/8"	3-1/4"	AV4110700	28.65	24.95
#8	3/4"	3-1/2"	AV4110800	39.37	34.95
#9	7/8"	3-5/8"	AV4110900	71.43	62.95
#10	1"	3-3/4"	AV4111000	93.77	81.95

22469

**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



Order No.	Regular Price	SALE
MX1082146	190.08	132.95

29154

**Indexable Miniature Boring Bar Set**

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

Set Includes: Boring Bar Shank Size**Minimum Bore**

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



Order No.	Regular Price	SALE
FL4585064	379.07	340.95

8744

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

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



Size	Material	Imprinting	Order No.	Regular Price	SALE
32 oz	Natural HDPE	White/Red	TO1010000	23.36	11.95

29260

**19" Hip Roof Tool Box with Tray**

- Removable steel tote tray
- Double latch for strength
- Hip roof lid design



Width	Depth	Height	Model No	Order No.	Regular Price	SALE
19"	7"	7"	J9971R	KP4292140	99.25	48.95

5492

CARBIDE



0° Lead End Mills

- Indexable economy
- HiPos, high shear geometry
- Insert size: 6mm IC
- Uses UOMT06 insert



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Head Length (LH)	Overall Length (OAL)	Cutting Item Count (CICT)	Order No.	Regular Price	SALE
3/8"	3/8"	-	2-1/2"	2	IC523018960	272.95	244.95
1/2"	1/2"	-	3"	2	IC523018963	284.28	253.95
1/2"	1/2"	-	2-3/4"	3	IC523018964	291.49	260.95
0.62"	5/8"	-	6"	3	IC523018966	351.23	315.95
3/4"	3/4"	-	3-3/4"	5	IC523018968	428.48	382.95

23415



0° Lead End Mills

Chip-Surfer Style

- Indexable economy
- Quick cutter head replacement
- HiPos, high shear geometry
- Insert size: 6mm IC
- Uses UOMT06 insert



Cutting Diameter (DC)	Cutting Item Count (CICT)	Head Length (LH)	Coolant Supply Property (CSP)	Order No.	Regular Price	SALE
3/8"	2	-	-	IC523040802	272.95	244.95
1/2"	3	-	-	IC523040803	284.28	253.95
1/2"	-	0"	-	IC523040804	291.49	260.95
5/8"	4	-	-	IC523040805	390.37	349.95
3/4"	5	-	-	IC523040807	428.48	382.95

23414

Buy a Complete Boring Bar Set

Includes 4 Boring Bars and 20 TiN Coated Inserts

Set Includes: Boring Bar No. (1 ea.) Shank Size Minimum Bore

- TPBN 06-2 1/2 .430
- TPBN 08-2 1/2 .590
- TPBN 10-2 5/8 .682
- TPBN 12-3 3/4 .845
- (10) TPGH 12.51 inserts
- (10) TPGH 321 inserts
- (1) Torx key T7
- (1) Torx key T10
- (1) Storage case
- Note: Set includes TiN coated grade DPP30GT carbide inserts for general purpose alloy steel, stainless and ductile iron applications



Order No.	Regular Price	SALE
FL4543840	690.68	586.95

8663



Engraving Tool

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



Angle	Master Insert Identification (MIID)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Order No.	Regular Price	SALE
45 Degrees	V04506TW06-NC2071	0.236"	1.575"	FG7010068	130.14	115.95
60 Degrees	V06006TW06-NC2071	0.236"	1.575"	FG7010069	130.14	115.95

22054



Spot Drill and Engraving

Inserts

Grade Selection

NC40 - TiN coated universal insert for carbon steel, alloy steel and cast iron applications

NC2071 - TiN coated high positive geometry, fully ground edge and relief angle. Universal grade for most all materials.



Inscribed Circle Diameter (IC)	Insert Thickness (S)	Corner Radius (RE)	Grade	Order No.	Regular Price	SALE
0.196"	0.071"	0.016"	NC2071	FG7120002	39.31	34.95
0.236"	0.079"	0.008"	NC2071	FG7120008	45.47	41.95
0.236"	0.079"	0.008"	NC2071	FG7120009	53.05	46.95
0.312"	0.094"	0.031"	NC40	FG7120003	37.66	33.95
0.315"	0.094"	0.016"	NC2071	FG7120000	43.50	39.95
0.315"	0.094"	0.031"	NC2071	FG7120006	67.60	61.95
0.433"	0.156"	0.031"	NC40	FG7120004	37.66	33.95
0.472"	0.156"	0.031"	NC2071	FG7120001	63.28	56.95
0.669"	0.187"	0.047"	NC2071	FG7120005	71.54	68.95

22053

Carbide Boring Bars

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



Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Minimum Bore Diameter (DMIN)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE
3/8"	6"	0.396"	CCMT2151	FL4559595	242.36	217.95
1/2"	5"	0.55"	CCMT2151	FL4559599	250.52	224.95
1/2"	8"	0.55"	CCMT2151	FL4559603	329.91	296.95
5/8"	6"	0.74"	CCMT3252	FL4559623	316.25	284.95
5/8"	10"	0.74"	CCMT3252	FL4559627	454.80	408.95
3/8"	6"	0.396"	CPMT2151	FL4559635	242.36	217.95
1/2"	8"	0.55"	CPMT2151	FL4559643	329.91	296.95
5/8"	6"	0.74"	CPMT2151	FL4559647	316.25	284.95
5/8"	6"	0.74"	CPMT3252	FL4559663	316.25	284.95
5/8"	10"	0.74"	CPMT3252	FL4559667	454.80	408.95
3/8"	6"	0.456"	TCMT2151	FL4559763	242.36	217.95
1/2"	5"	0.587"	TCMT2151	FL4559767	250.52	224.95
1/2"	8"	0.587"	TCMT2151	FL4559771	329.91	296.95
5/8"	10"	3/4"	TCMT2151	FL4559779	454.80	408.95
1"	8"	1.2"	CCMT3252	FL4559971	777.45	699.95
3/4"	7"	0.93"	TCMT3252	FL4560027	495.48	445.95
3/4"	10"	0.93"	TCMT3252	FL4560029	640.35	575.95

23085

WIDIA High-Performance Solid Carbide 4 Flute Ball Nose End Mills - VariMill I™



VariMill I™ - Series 4V00 - Inch

- AlTiN Coated
- Unequal flute spacing.
- Center cutting.
- Applicable in steel, stainless steel, cast iron, hardened steels and titanium
- Single tool for both roughing and finishing operations requiring fewer setups.

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Shank Type	Order No.	Regular Price	SALE
1/8"	1/8"	2"	1/2"	Round	WK405576655	34.88	24.95
3/16"	3/16"	2-1/4"	5/8"	Round	WK405576656	38.96	27.95
5/16"	5/16"	2-1/2"	3/4"	Round	WK405576659	65.65	48.95
1/4"	1/4"	2-1/2"	3/4"	Round	WK405576658	54.36	40.95
3/8"	3/8"	2-1/2"	7/8"	Round	WK405576660	81.02	59.95
1/2"	1/2"	3"	1-1/4"	Weldon	WK405576663	129.23	95.95
1/2"	1/2"	3"	1"	Weldon	WK405576662	129.23	95.95
5/8"	5/8"	3-1/2"	1-1/4"	Weldon	WK405576664	245.12	182.95
3/4"	3/4"	4"	1-1/2"	Weldon	WK405576665	343.51	254.95
1"	1"	4"	1-1/2"	Weldon	WK405576666	506.44	376.95
1-1/4"	1-1/4"	5"	2-1/4"	Weldon	WK405576667	759.66	564.95

29415

WIDIA Solid Carbide Varimill GP Ball Nose End Mills



2 Flute - TiAlN Coated

- Center cutting
- Cylindrical shanks
- TiAlN coated for longer tool life

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/16"	1/8"	3/16"	1-1/2"	WK405878173	16.71	11.95
1/8"	1/8"	1/2"	1-1/2"	WK405878180	16.33	11.95
3/16"	3/16"	5/8"	2"	WK405878186	20.57	14.95
3/16"	3/16"	1"	4"	WK405878188	37.05	27.95
1/4"	1/4"	1/2"	2"	WK405878190	23.87	16.95
1/4"	1/4"	3/4"	2-1/2"	WK405878191	28.03	20.95
3/8"	3/8"	7/8"	2-1/2"	WK405878200	45.85	33.95
1/2"	1/2"	1"	3"	WK405878207	78.17	57.95

10697

WIDIA Solid Carbide Varimill GP Ball Nose End Mills



4 Flute - TiAlN Coated

- Center cutting
- Cylindrical shanks
- TiAlN coated for longer tool life

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/32"	1/8"	5/64"	1-1/2"	WK405825624	19.27	13.95
3/64"	1/8"	1/8"	1-1/2"	WK405825625	19.27	13.95
1/16"	1/8"	3/16"	1-1/2"	WK405825626	16.71	11.95
3/32"	1/8"	3/16"	1-1/2"	WK405825628	14.35	9.95
3/32"	1/8"	3/8"	1-1/2"	WK405825643	17.69	12.95
1/8"	1/8"	1/4"	1-1/2"	WK405825646	14.05	9.95
1/8"	1/8"	1/2"	1-1/2"	WK405825647	16.33	11.95
1/8"	1/8"	3/4"	2-1/4"	WK405825648	22.80	15.95
1/8"	1/8"	3/4"	3"	WK405825649	25.22	17.95
5/32"	3/16"	9/16"	2"	WK405825652	22.57	15.95
3/16"	3/16"	5/16"	1-1/2"	WK405825654	17.66	12.95
3/16"	3/16"	5/8"	2"	WK405825655	20.57	14.95
3/16"	3/16"	3/4"	2-1/2"	WK405825656	30.45	22.95
3/16"	3/16"	1"	4"	WK405825657	37.05	27.95
7/32"	1/4"	5/8"	2-1/2"	WK405825659	28.99	21.95
1/4"	1/4"	1/2"	2"	WK405825661	23.87	16.95
1/4"	1/4"	3/4"	2-1/2"	WK405825663	28.03	20.95
1/4"	1/4"	1-1/8"	3"	WK405825664	30.76	22.95
1/4"	1/4"	1-1/2"	4"	WK405825665	34.43	25.95
5/16"	5/16"	13/16"	2-1/2"	WK405825670	37.99	27.95
3/8"	3/8"	1"	2-1/2"	WK405825684	45.85	33.95
3/8"	3/8"	1"	4"	WK405825685	67.86	50.95
3/8"	3/8"	1-1/8"	3"	WK405825686	60.31	44.95
3/8"	3/8"	1-1/2"	6"	WK405825687	75.61	55.95
1/2"	1/2"	1"	3"	WK405825689	78.17	57.95
1/2"	1/2"	1"	4"	WK405825690	92.38	67.95
1/2"	1/2"	1-1/2"	6"	WK405825691	124.88	91.95
1/2"	1/2"	2"	4"	WK405825692	92.38	67.95
5/8"	5/8"	1-1/4"	3-1/2"	WK405825697	124.44	92.95
3/4"	3/4"	1"	3"	WK405825700	166.29	122.95
3/4"	3/4"	1-1/2"	4"	WK405825711	178.45	131.95

10701

CARBIDE



Chip-Flo Grooving Inserts with Chipbreaker

FLB-CB

Carbide Grades

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



AC3R						
Cutting Width (CW)	Corner Radius (RE)	Insert Thickness (S)	Cutting Depth Maximum (CDX)	Order No.	Regular Price	SALE
0.047"	0.0035"	0.15"	0.05"	FG31FLG2047RCB	26.21	22.95
0.047"	0.0035"	0.15"	0.05"	FG31FLG2047LCB	26.21	22.95
0.062"	0.0075"	0.15"	0.11"	FG31FLG2062RCB	26.21	22.95
0.062"	0.0075"	0.15"	0.11"	FG31FLG2062LCB	26.21	22.95
0.094"	0.0075"	0.15"	0.11"	FG31FLG2094RCB	26.21	22.95
0.094"	0.0075"	0.15"	0.11"	FG31FLG2094LCB	26.21	22.95
0.031"	0.0035"	0.195"	0.05"	FG31027740	26.21	22.95
0.031"	0.0035"	0.195"	0.05"	FG31027710	26.21	22.95
0.047"	0.0075"	0.195"	0.075"	FG31FLG3047RCB	26.21	22.95
0.047"	0.0075"	0.195"	0.075"	FG31FLG3047LCB	26.21	22.95
0.062"	0.0075"	0.195"	0.12"	FG31FLG3062RCB	26.21	22.95
0.062"	0.0075"	0.195"	0.12"	FG31FLG3062LCB	26.21	22.95
0.094"	0.0075"	0.195"	0.18"	FG31FLG3094LCB	26.21	22.95
1/8"	0.0075"	0.195"	0.18"	FG31FLG3125RCB	26.21	22.95
1/8"	0.0075"	0.195"	0.18"	FG31FLG3125LCB	26.21	22.95
1/8"	0.0075"	0.255"	0.29"	FG31030560	37.73	33.95
1/8"	0.0075"	0.255"	0.29"	FG31564825PLAC3	37.73	33.95

AC50C						
Cutting Width (CW)	Corner Radius (RE)	Insert Thickness (S)	Cutting Depth Maximum (CDX)	Order No.	Regular Price	SALE
0.047"	0.0035"	0.15"	0.05"	FG31026280	26.21	22.95
0.047"	0.0035"	0.15"	0.05"	FG31026240	26.21	22.95
0.062"	0.0075"	0.15"	0.11"	FG312662PRAC50C	26.21	22.95
0.062"	0.0075"	0.15"	0.11"	FG312662PLAC50C	26.21	22.95
0.094"	0.0075"	0.15"	0.11"	FG31026590	26.21	22.95
0.094"	0.0075"	0.15"	0.11"	FG31026540	26.21	22.95
0.031"	0.0035"	0.195"	0.05"	FG31563631PRAC5	26.21	22.95
0.031"	0.0035"	0.195"	0.05"	FG31563631PLAC5	26.21	22.95
0.047"	0.0075"	0.195"	0.075"	FG31563647PRAC5	26.21	22.95
0.047"	0.0075"	0.195"	0.075"	FG31027800	26.21	22.95
0.062"	0.0075"	0.195"	0.12"	FG31563662PRAC5	26.21	22.95
0.062"	0.0075"	0.195"	0.12"	FG31563662PLAC5	26.21	22.95
0.094"	0.0075"	0.195"	0.18"	FG31563694PRAC5	26.21	22.95
0.094"	0.0075"	0.195"	0.18"	FG31563694PLAC5	26.21	22.95
1/8"	0.0075"	0.195"	0.18"	FG31563825PRAC5	26.21	22.95
1/8"	0.0075"	0.195"	0.18"	FG31028880	26.21	22.95
1/8"	0.0075"	0.255"	0.29"	FG31030570	37.73	33.95
1/8"	0.0075"	0.255"	0.29"	FG31030510	37.73	33.95



Flo-Lock/Chip-Flo 60° Threading Inserts

FLT

Carbide Grades:

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



Product-Name	Pitch TPI External (TPI Ext)	Pitch TPI Internal (TPI Int)	Corner Radius (RE)	Cutting Edge Length (L)	Insert Thickness (S)	Order No.	Regular Price	SALE
FLT-2L	-	-	0.003" 0.005"	0.2661	0.15"	FG31FLT2LA	22.00	18.95
FLT-2R	-	-	0.003" 0.005"	0.2661	0.15"	FG31FLT2RA	22.00	18.95
FLT-2R AC50C	8-36	-	0.003" 0.005"	0.2661"	0.15"	FG31038190	22.00	18.95
FLT-2L	-	-	0.003" 0.005"	0.2661	0.15"	FG315041	20.35	17.95
FLT-2R	-	-	0.003" 0.005"	0.2661	0.15"	FG315040	20.35	17.95
FLT-3L	-	-	0.005" 0.008"	0.3999	0.195"	FG31FLT3LA	22.84	19.95
FLT-3L	-	-	0.005" 0.008"	0.3999	0.195"	FG31FLT3L	22.84	19.95
FLT-3R	-	-	0.005" 0.008"	0.3999	0.195"	FG315042	21.19	17.95
FLT-3L	-	-	0.005" 0.008"	0.3999	0.195"	FG315043	21.19	17.95
FLT-3010R AC3R	6-18	-	0.009" 0.011	0.3999"	0.195"	FG31038250	24.95	21.95
FLT-3010R AC50C	6-18	-	0.009" 0.011	0.3999"	0.195"	FG31038260	24.95	21.95
FLT-3010R GP50C	6-18	-	0.009" 0.011	0.3999"	0.195"	FG31038280	23.34	19.95
FLT-4L	-	-	0.005" 0.008"	0.375	0.255"	FG31FLT-4LAC50	28.54	24.95
FLT-4R	-	-	0.005" 0.008"	0.375	0.255"	FG31FLT4R	28.54	24.95
FLT-4R GP50E	4-20	-	0.005" 0.008"	0.6298"	0.255"	FG315047	26.31	22.95

INTERNAL TOOL[®] Max Groove Carbide Grooving Tools



- Solid micrograin carbide
- For retaining ring grooves and internal reliefs
- An elliptical neck for greater strength
- Altin coated for a longer life
- Top rake for maximum shearing with a better finish
- All shanks have lockdown flat for faster setups
- Minimum bore +.000/-0.005

Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Cutting Width (CW)	Minimum Bore Diameter (DMIN)	Cutting Length	Cutting Depth Maximum (CDX)	Order No.	Reg-ular Price	SALE
1/4"	2-1/2"	0.017" / 0.018"	1/4"	0.050"	1/4"	GE97221100	47.48	41.95
1/4"	2-1/2"	0.017" / 0.018"	1/4"	0.050"	3/8"	GE97221105	47.48	41.95
1/4"	2-1/2"	0.017" / 0.018"	1/4"	0.050"	1/2"	GE97221110	47.48	41.95
1/4"	2-1/2"	0.017" / 0.018"	1/4"	0.050"	5/8"	GE97221115	47.48	41.95
1/4"	2-1/2"	0.025" / 0.026"	1/4"	0.050"	1/4"	GE97221120	47.48	41.95
1/4"	2-1/2"	0.025" / 0.026"	1/4"	0.050"	3/8"	GE97221125	47.48	41.95
1/4"	2-1/2"	0.025" / 0.026"	1/4"	0.050"	1/2"	GE97221130	47.48	41.95
1/4"	2-1/2"	0.025" / 0.026"	1/4"	0.050"	5/8"	GE97221135	47.48	41.95
1/4"	2-1/2"	0.030" / 0.031"	1/4"	0.050"	1/4"	GE97221140	47.48	41.95
1/4"	2-1/2"	0.030" / 0.031"	1/4"	0.050"	3/8"	GE97221145	47.48	41.95
1/4"	2-1/2"	0.030" / 0.031"	1/4"	0.050"	1/2"	GE97221150	47.48	41.95
1/4"	2-1/2"	0.030" / 0.031"	1/4"	0.050"	5/8"	GE97221155	47.48	41.95
1/4"	2-1/2"	0.062" / 0.064"	1/4"	0.050"	1/4"	GE97221160	47.48	41.95
1/4"	2-1/2"	0.062" / 0.064"	1/4"	0.050"	3/8"	GE97221165	47.48	41.95
1/4"	2-1/2"	0.062" / 0.064"	1/4"	0.050"	1/2"	GE97221170	47.48	41.95
1/4"	2-1/2"	0.062" / 0.064"	1/4"	0.050"	5/8"	GE97221175	47.48	41.95
1/4"	2-1/2"	0.093" / 0.095"	1/4"	0.050"	1/4"	GE97221180	47.48	41.95
1/4"	2-1/2"	0.093" / 0.095"	1/4"	0.050"	3/8"	GE97221185	47.48	41.95
1/4"	2-1/2"	0.093" / 0.095"	1/4"	0.050"	1/2"	GE97221190	47.48	41.95
1/4"	2-1/2"	0.093" / 0.095"	1/4"	0.050"	5/8"	GE97221195	47.48	41.95
1/4"	2-1/2"	0.125" / 0.127"	1/4"	0.050"	1/4"	GE97221200	47.48	41.95
1/4"	2-1/2"	0.125" / 0.127"	1/4"	0.050"	3/8"	GE97221205	47.48	41.95
1/4"	2-1/2"	0.125" / 0.127"	1/4"	0.050"	1/2"	GE97221210	47.48	41.95
1/4"	2-1/2"	0.125" / 0.127"	1/4"	0.050"	5/8"	GE97221215	47.48	41.95
5/16"	2-1/2"	0.033" / 0.034"	0.312"	0.100"	1/4"	GE97221220	59.25	51.95
5/16"	2-1/2"	0.033" / 0.034"	0.312"	0.100"	3/8"	GE97221225	59.25	51.95
5/16"	2-1/2"	0.033" / 0.034"	0.312"	0.100"	1/2"	GE97221230	59.25	51.95
5/16"	2-1/2"	0.033" / 0.034"	0.312"	0.100"	5/8"	GE97221235	59.25	51.95
5/16"	2-1/2"	0.038" / 0.039"	0.312"	0.100"	1/4"	GE97221240	59.25	51.95
5/16"	2-1/2"	0.038" / 0.039"	0.312"	0.100"	3/8"	GE97221245	59.25	51.95
5/16"	2-1/2"	0.038" / 0.039"	0.312"	0.100"	1/2"	GE97221250	59.25	51.95
5/16"	2-1/2"	0.038" / 0.039"	0.312"	0.100"	5/8"	GE97221255	59.25	51.95
5/16"	2-1/2"	0.062" / 0.064"	0.312"	0.100"	1/2"	GE97221260	59.25	51.95
5/16"	2-1/2"	0.062" / 0.064"	0.312"	0.100"	3/4"	GE97221265	59.25	51.95
5/16"	2-1/2"	0.062" / 0.064"	0.312"	0.100"	1"	GE97221270	59.25	51.95
5/16"	2-1/2"	0.093" / 0.095"	0.312"	0.100"	1/2"	GE97221275	59.25	51.95
5/16"	2-1/2"	0.093" / 0.095"	0.312"	0.100"	3/4"	GE97221280	59.25	51.95
5/16"	2-1/2"	0.093" / 0.095"	0.312"	0.100"	1"	GE97221285	59.25	51.95
5/16"	2-1/2"	0.125" / 0.127"	0.312"	0.100"	1/2"	GE97221290	59.25	51.95
5/16"	2-1/2"	0.125" / 0.127"	0.312"	0.100"	3/4"	GE97221295	59.25	51.95
5/16"	2-1/2"	0.125" / 0.127"	0.312"	0.100"	1"	GE97221300	59.25	51.95
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	1/4"	GE97221305	78.02	68.95
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	3/8"	GE97221310	78.02	68.95
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	1/2"	GE97221315	78.02	68.95
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	3/4"	GE97221320	78.02	68.95
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	1"	GE97221325	78.02	68.95
3/8"	2-1/2"	0.039" / 0.041"	3/8"	0.100"	1-1/4"	GE97221330	78.02	68.95
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	1/4"	GE97221335	78.02	68.95
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	3/8"	GE97221340	78.02	68.95
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	1/2"	GE97221345	78.02	68.95
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	3/4"	GE97221350	78.02	68.95

Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Cutting Width (CW)	Minimum Bore Diameter (DMIN)	Cutting Length	Cutting Depth Maximum (CDX)	Order No.	Reg-ular Price	SALE
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	1"	GE97221355	78.02	68.95
3/8"	2-1/2"	0.046" / 0.048"	3/8"	0.100"	1-1/4"	GE97221360	78.02	68.95
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	1/4"	GE97221365	78.02	68.95
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	3/8"	GE97221370	78.02	68.95
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	1/2"	GE97221375	78.02	68.95
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	3/4"	GE97221380	78.02	68.95
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	1"	GE97221385	78.02	68.95
3/8"	2-1/2"	0.055" / 0.057"	3/8"	0.100"	1-1/4"	GE97221390	78.02	68.95
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	1/4"	GE97221395	78.02	68.95
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	3/8"	GE97221400	78.02	68.95
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	1/2"	GE97221405	78.02	68.95
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	3/4"	GE97221410	78.02	68.95
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	1"	GE97221415	78.02	68.95
3/8"	2-1/2"	0.062" / 0.064"	3/8"	0.100"	1-1/4"	GE97221420	78.02	68.95
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	1/4"	GE97221425	78.02	68.95
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	3/8"	GE97221430	78.02	68.95
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	1/2"	GE97221435	78.02	68.95
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	3/4"	GE97221440	78.02	68.95
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	1"	GE97221445	78.02	68.95
3/8"	2-1/2"	0.069" / 0.071"	3/8"	0.100"	1-1/4"	GE97221450	78.02	68.95
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	1/4"	GE97221455	78.02	68.95
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	3/8"	GE97221460	78.02	68.95
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	1/2"	GE97221465	78.02	68.95
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	3/4"	GE97221470	78.02	68.95
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	1"	GE97221475	78.02	68.95
3/8"	2-1/2"	0.087" / 0.089"	3/8"	0.100"	1-1/4"	GE97221480	78.02	68.95
3/8"	2-1/2"	0.093" / 0.095"	3/8"	0.100"	1/2"	GE97221485	78.02	68.95
3/8"	2-1/2"	0.093" / 0.095"	3/8"	0.100"	3/4"	GE97221490	78.02	68.95
3/8"	2-1/2"	0.093" / 0.095"	3/8"	0.100"	1"	GE97221495	78.02	68.95
3/8"	2-1/2"	0.125" / 0.127"	3/8"	0.100"	1/2"	GE97221500	78.02	68.95
3/8"	2-1/2"	0.125" / 0.127"	3/8"	0.100"	3/4"	GE97221505	78.02	68.95
3/8"	2-1/2"	0.125" / 0.127"	3/8"	0.100"	1"	GE97221510	78.02	68.95
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	1/2"	GE97221515	104.71	92.95
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	3/4"	GE97221520	104.71	92.95
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	1"	GE97221525	104.71	92.95
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	1-1/4"	GE97221530	104.71	92.95
1/2"	3"	0.062" / 0.064"	1/2"	0.150"	1-1/2"	GE97221535	104.71	92.95
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	1/2"	GE97221540	104.71	92.95
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	3/4"	GE97221545	104.71	92.95
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	1"	GE97221550	104.71	92.95
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	1-1/4"	GE97221555	104.71	92.95
1/2"	3"	0.093" / 0.095"	1/2"	0.150"	1-1/2"	GE97221560	104.71	92.95
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	1/2"	GE97221565	104.71	92.95
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	3/4"	GE97221570	104.71	92.95
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	1"	GE97221575	104.71	92.95
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	1-1/4"	GE97221580	104.71	92.95
1/2"	3"	0.125" / 0.127"	1/2"	0.150"	1-1/2"	GE97221585	104.71	92.95
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	1/2"	GE97221590	104.71	92.95
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	3/4"	GE97221595	104.71	92.95
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	1"	GE97221600	104.71	92.95
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	1-1/4"	GE97221605	104.71	92.95
1/2"	3"	0.156" / 0.158"	1/2"	0.150"	1-1/2"	GE97221610	104.71	92.95
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	1/2"	GE97221615	104.71	92.95
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	3/4"	GE97221620	104.71	92.95
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	1"	GE97221625	104.71	92.95
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	1-1/4"	GE97221630	104.71	92.95
1/2"	3"	0.187" / 0.189"	1/2"	0.150"	1-1/2"	GE97221635	104.71	92.95
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	1/2"	GE97221640	104.71	92.95
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	3/4"	GE97221645	104.71	92.95
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	1"	GE97221650	104.71	92.95
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	1-1/4"	GE97221655	104.71	92.95
1/2"	3"	0.250" / 0.252"	1/2"	0.150"	1-1/2"	GE97221660	104.71	92.95

CUTTING TOOLS



6 Flute Chatterless Countersinks

High Speed Steel

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



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	60 Degrees			90 Degrees			100 Degrees			82 Degrees			120 Degrees		
			Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
1/8"	1/8"	1-1/2"	BC7579021	10.06	7.95	BC7579031	10.06	7.95	BC7579036	10.06	7.95	BC7579026	10.06	7.95	BC7579041	10.06	7.95
3/16"	3/16"	1-1/2"	BC7579046	11.02	7.95	BC7579056	11.02	7.95	BC7579061	11.02	7.95	BC7579051	11.02	7.95	BC7579066	11.02	7.95
1/4"	1/4"	2"	BC7579071	11.16	7.95	BC7579081	11.16	7.95	BC7579086	11.16	7.95	BC7579076	11.16	7.95	BC7579091	11.16	7.95
5/16"	1/4"	2"	BC7579096	13.31	9.95	BC7579106	13.31	9.95	BC7579111	13.31	9.95	BC7579101	13.31	9.95	BC7579116	13.31	9.95
3/8"	1/4"	2"	BC7579121	13.81	9.95	BC7579131	13.81	9.95	BC7579136	13.81	9.95	BC7579126	13.81	9.95	BC7579141	13.81	9.95
1/2"	3/8"	2"	BC7579146	17.05	12.95	BC7579156	17.05	12.95	BC7579161	17.05	12.95	BC7579151	17.05	12.95	BC7579166	17.05	12.95
5/8"	3/8"	2-1/4"	BC7579171	24.62	19.95	BC7579181	24.62	19.95	BC7579186	24.62	19.95	BC7579176	24.62	19.95	BC7579191	24.62	19.95
3/4"	1/2"	2-3/4"	BC7579196	33.75	25.95	BC7579206	33.75	25.95	BC7579211	33.75	25.95	BC7579201	33.75	25.95	BC7579216	33.75	25.95
7/8"	1/2"	2-3/4"	BC7579221	46.32	36.95	BC7579231	46.32	36.95	BC7579236	46.32	36.95	BC7579226	46.32	36.95	BC7579241	46.32	36.95
1"	1/2"	2-3/4"	BC7579246	51.58	40.95	BC7579256	51.58	40.95	BC7579261	51.58	40.95	BC7579251	51.58	40.95	BC7579266	51.58	40.95
1-1/4"	1/2"	3"	BC7579271	79.02	62.95	BC7579281	79.02	62.95	BC7579286	79.02	62.95	BC7579276	79.02	62.95	BC7579291	79.02	62.95
1-1/2"	3/4"	3-1/2"	BC7579296	113.23	87.95	BC7579306	113.23	87.95	BC7579311	113.23	87.95	BC7579301	113.23	87.95	BC7579316	113.23	87.95
2"	3/4"	3-3/4"	BC7579321	192.08	149.95	BC7579331	192.08	149.95	BC7579336	192.08	149.95	BC7579326	192.08	149.95	BC7579341	192.08	149.95
2-1/2"	3/4"	5"	BC7579346	497.26	389.95	BC7579356	497.26	389.95	-	-	-	BC7579351	497.26	389.95	-	-	-
3"	3/4"	5-1/4"	BC7579361	684.67	536.95	BC7579371	684.67	536.95	-	-	-	BC7579366	684.67	536.95	-	-	-

†Straight shank with tang drive.

9918

Solid Carbide 142° Point Angle Spotting Drill

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



Point Diameter (PDD)	Flute Length	Overall Length (OAL)	Order No.	Regular Price	SALE
1/8"	5/8"	1-1/2"	AV4134184	22.65	18.95
3/16"	9/16"	2"	AV4134189	29.77	26.95
1/4"	13/16"	2-1/2"	AV4134144	37.98	33.95
5/16"	3/4"	2-1/2"	AV4134314	45.81	39.95
3/8"	3/4"	2-1/2"	AV4134384	52.43	45.95
1/2"	1-1/8"	3"	AV4134124	81.99	70.95
5/8"	1"	3-1/2"	AV4134584	150.99	129.95
3/4"	1-1/8"	4"	AV4134344	252.00	223.95

9886

Long Series Combined Drills & Counter-sinks

60° - High Speed Steel and Carbide



				Cutting Edge Material - HSS			Cutting Edge Material - Carbide		
Size	Overall Length (OAL)	Drill Bit Size / Cutting Diameter (DC)	Point Diameter (PDD)	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
#2-0	4"	1/8"	0.025"	-	-	-	AV4229004	83.48	70.95
#2-0	6"	1/8"	0.025"	-	-	-	AV4229006	92.02	77.95
#0	4"	1/8"	1/32"	-	-	-	AV4229014	83.48	70.95
#0	6"	1/8"	1/32"	-	-	-	AV4229016	92.02	77.95
#1	3"	1/8"	3/64"	AV4221030	16.90	13.95	-	-	-
#1	4"	1/8"	3/64"	AV4221040	17.64	14.95	AV4229104	76.69	64.95

				Cutting Edge Material - HSS			Cutting Edge Material - Carbide		
Size	Overall Length (OAL)	Drill Bit Size / Cutting Diameter (DC)	Point Diameter (PDD)	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
#1	5"	1/8"	3/64"	AV4221050	24.49	20.95	-	-	-
#1	6"	1/8"	3/64"	AV4221060	32.08	26.95	AV4229106	85.17	72.95
#1	8"	1/8"	3/64"	AV4221080	42.47	35.95	-	-	-
#2	3"	3/16"	5/64"	AV4222030	17.09	14.95	-	-	-
#2	4"	3/16"	5/64"	AV4222040	19.33	15.95	AV4229204	79.77	67.95
#2	5"	3/16"	5/64"	AV4222050	24.77	20.95	-	-	-
#2	6"	3/16"	5/64"	AV4222060	32.21	26.95	AV4229206	92.34	78.95
#2	8"	3/16"	5/64"	AV4222080	43.10	36.95	-	-	-
#3	3"	1/4"	7/64"	AV4223030	17.85	14.95	-	-	-
#3	4"	1/4"	7/64"	AV4223040	20.37	16.95	AV4229304	97.16	82.95
#3	5"	1/4"	7/64"	AV4223050	26.79	22.95	-	-	-
#3	6"	1/4"	7/64"	AV4223060	32.50	27.95	AV4229306	115.97	98.95
#4	3"	5/16"	1/8"	AV4224030	20.95	17.95	-	-	-
#3	8"	1/4"	7/64"	AV4223080	43.60	36.95	-	-	-
#4	4"	5/16"	1/8"	AV4224040	22.56	18.95	AV4229404	110.09	93.95
#4	5"	5/16"	1/8"	AV4224050	28.84	24.95	-	-	-
#4	6"	5/16"	1/8"	AV4224060	33.29	27.95	AV4229406	133.40	113.95
#4	8"	5/16"	1/8"	AV4224080	44.36	37.95	-	-	-
#4.5	4"	3/8"	9/64"	AV4224540	25.36	21.95	-	-	-
#4.5	5"	3/8"	9/64"	AV4224550	29.97	25.95	-	-	-
#4.5	6"	3/8"	9/64"	AV4224560	36.17	30.95	-	-	-
#4.5	8"	3/8"	9/64"	AV4224580	45.87	38.95	-	-	-
#5	4"	7/16"	3/16"	AV4225040	29.65	24.95	AV4229504	166.50	141.95
#5	5"	7/16"	3/16"	AV4225050	34.33	28.95	-	-	-
#5	6"	7/16"	3/16"	AV4225060	38.54	32.95	AV4229506	214.68	182.95
#5	8"	7/16"	3/16"	AV4225080	47.78	40.95	-	-	-
#6	4"	1/2"	7/32"	AV4226040	32.17	26.95	AV4229604	229.49	195.95
#6	5"	1/2"	7/32"	AV4226050	36.87	30.95	-	-	-
#6	6"	1/2"	7/32"	AV4226060	44.58	37.95	AV4229606	286.06	243.95
#6	8"	1/2"	7/32"	AV4226080	55.26	46.95	-	-	-
#7	6"	5/8"	1/4"	AV4227060	83.08	70.95	AV4229706	410.22	348.95
#7	8"	5/8"	1/4"	AV4227080	100.23	84.95	-	-	-
#8	6"	3/4"	5/16"	AV4228060	89.71	75.95	AV4229806	565.92	481.95
#8	8"	3/4"	5/16"	AV4228080	111.23	94.95	-	-	-

9968

Adjustable Scraper

- Ideal for scraping, trimming and deburring almost all materials
- Includes: 12mm anodized handle and T80 double ended triangular scraper



Application	Order No.	Regular Price	SALE
Scraping, Trimming, Deburring	FN55SC8000	20.96	16.95

10067

Ceramic Convexed Cera-Cut & Blades

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



Included	Order No.	Regular Price	SALE
Cera-Cut Handle / 250 mm Convex Blade	FN55CR2000	36.26	29.95

10069

Reversible Countersinks

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



Included	Order No.	Regular Price	SALE
Steel Handle / R1 Blade	FN55RC1000	31.09	25.95
Steel Handle / R2 Blade	FN55RC2000	31.09	25.95
Steel Handle / R3 Blade	FN55RC2200	36.98	30.95
Set of all 3	FN55RC3300	99.14	82.95

22419

S Promo Set

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



Order No.	Regular Price	SALE
FN55NG8150	17.03	13.95

10113

Edge Off

- Disposable tool
- A handy pocket clip is a standard feature of this tool
- Includes: S10 blade mounted in an 8mm painted hexagonal aluminum handle



Order No.	Regular Price	SALE
FN55EO1000	5.61	4.69

10077

007

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



Order No.	Regular Price	SALE
FN55007	62.88	52.95

10065

NG Handles & S & N Holders



For Use With	Type	Order No.	Regular Price	SALE
N Blades	N Blade Holder	FN55EL01003	7.21	5.95
S Blades	S Blade Holder	FN55EL02003	7.21	5.95
S Blades	NG-1 Handle	FN55NG1000	9.01	7.50
N Blades	NG-2 Handle	FN55NG2000	9.25	7.50
All Blade Holders	NG-3 Handle	FN55NG3000	9.25	7.50

24075

CUTTING TOOLS

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

• Style #HGC-4C-TC

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/4"	3/8"	3-1/16"	1-1/4"	4	CE60C32673	50.83	40.95
1/4"	3/8"	3-9/16"	1-3/4"	4	CE60C32718	57.70	45.95
9/32"	3/8"	3-1/8"	1-3/8"	4	CE60C32674	49.91	39.95
5/16"	3/8"	3-1/8"	1-3/8"	4	CE60C32675	53.67	42.95
5/16"	3/8"	3-3/4"	2"	4	CE60C32720	64.29	50.95
3/8"	3/8"	3-1/4"	1-1/2"	4	CE60C32677	50.20	39.95
3/8"	3/8"	4-1/4"	2-1/2"	4	CE60C32722	67.38	53.95
7/16"	3/8"	3-3/4"	1-3/4"	4	CE60C32679	64.34	50.95
1/2"	1/2"	3-1/4"	1-1/4"	6	CE60C32634	59.72	47.95
1/2"	1/2"	3-1/4"	1-1/4"	4	CE60C32633	53.97	42.95
5/8"	5/8"	3-3/4"	1-5/8"	4	CE60C32635	106.62	84.95
5/8"	5/8"	4-5/8"	2-1/2"	4	CE60C32682	144.86	115.95
3/4"	3/4"	3-7/8"	1-5/8"	4	CE60C32637	136.32	108.95
3/4"	3/4"	6-1/4"	4"	4	CE60C32728	219.70	178.95
7/8"	7/8"	5-3/4"	3-1/2"	4	CE60C32685	174.14	138.95
1/2"	1/2"	4"	2"	4	CE60C32681	70.54	55.95
1"	1"	4-1/2"	2"	4	CE60C32639	183.35	148.95
1"	1"	6-1/2"	4"	4	CE60C32687	286.93	231.95

29531

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

• Style #HGC-4C

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/4"	3/8"	3-9/16"	1-3/4"	4	CE60C32691	50.43	39.95
9/32"	3/8"	3-1/8"	1-3/8"	4	CE60C32647	43.57	34.95
5/16"	3/8"	3-1/8"	1-3/8"	4	CE60C32648	44.98	35.95
5/16"	3/8"	3-3/4"	2"	4	CE60C32693	55.16	43.95
3/8"	3/8"	3-1/4"	1-1/2"	4	CE60C42857	42.60	33.95
3/8"	3/8"	4-1/4"	2-1/2"	4	CE60C42913	57.40	45.95
7/16"	3/8"	3-3/4"	1-3/4"	4	CE60C32651	55.16	43.95
1/2"	1/2"	4"	2"	4	CE60C42861	59.36	46.95
5/8"	5/8"	3-3/4"	1-5/8"	4	CE60C42703	91.14	72.95
5/8"	5/8"	4-5/8"	2-1/2"	4	CE60C42864	137.42	109.95
3/4"	3/4"	3-7/8"	1-5/8"	4	CE60C42707	115.92	92.95
3/4"	3/4"	6-1/4"	4"	4	CE60C42924	187.23	152.95
7/8"	7/8"	5-3/4"	3-1/2"	4	CE60C32653	146.48	116.95
1"	1"	4-1/2"	2"	4	CE60C42715	156.85	124.95
1"	1"	6-1/2"	4"	4	CE60C42876	255.87	206.95
1-1/2"	1-1/4"	10-1/2"	8"	4	CE60C32698	714.71	593.95
1-1/2"	1-1/4"	10-1/2"	8"	6	CE60C32699	778.68	628.95

29540

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

• Style #CEM-V-4R-TA

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	1-1/2"	1/4"	4	CE60C80001	40.33	31.95
1/8"	1/8"	1-1/2"	3/8"	4	CE60C80003	39.67	31.95
1/8"	1/8"	1-1/2"	1/2"	4	CE60C80005	41.60	32.95
3/16"	3/16"	2"	3/8"	4	CE60C80007	41.95	33.95
3/16"	3/16"	2"	7/16"	4	CE60C80009	45.41	35.95
3/16"	3/16"	2-1/2"	3/4"	4	CE60C80011	55.76	44.95
1/4"	1/4"	2"	1/2"	4	CE60C80013	51.29	40.95
1/4"	1/4"	2-1/2"	3/4"	4	CE60C80015	62.85	49.95
1/4"	1/4"	3"	1-1/8"	4	CE60C80018	69.00	54.95
1/4"	1/4"	3"	1-1/4"	4	CE60C80020	75.53	59.95
5/16"	5/16"	2"	1/2"	4	CE60C80021	77.56	61.95
5/16"	5/16"	2-1/2"	13/16"	4	CE60C80023	83.62	66.95
5/16"	5/16"	3"	1-1/4"	4	CE60C80025	93.03	73.95
3/8"	3/8"	2"	5/8"	4	CE60C80027	85.30	67.95
3/8"	3/8"	2-1/2"	7/8"	4	CE60C80029	91.89	72.95
3/8"	3/8"	3"	1-1/8"	4	CE60C80031	114.60	91.95
3/8"	3/8"	4"	2"	4	CE60C80033	135.25	107.95
7/16"	7/16"	2-1/2"	5/8"	4	CE60C80035	117.76	93.95
7/16"	7/16"	3"	1"	4	CE60C80037	128.44	102.95
7/16"	7/16"	4"	2"	4	CE60C80039	141.54	112.95
1/2"	1/2"	2-1/2"	5/8"	4	CE60C80040	135.58	107.95
1/2"	1/2"	3"	1"	4	CE60C80043	143.31	113.95
1/2"	1/2"	3"	1-1/4"	4	CE60C80048	132.49	105.95
1/2"	1/2"	4"	2"	4	CE60C80054	179.23	145.95
5/8"	5/8"	3"	3/4"	4	CE60C80059	209.30	169.95
5/8"	5/8"	3-1/2"	1-1/4"	4	CE60C80061	234.05	189.95
5/8"	5/8"	5"	2-1/4"	4	CE60C80066	318.33	256.95
3/4"	3/4"	3"	1"	4	CE60C80072	314.18	253.95
3/4"	3/4"	4"	1-1/2"	4	CE60C80074	331.64	267.95
3/4"	3/4"	5"	2-1/4"	4	CE60C80079	463.46	372.95
1"	1"	4"	1-1/2"	4	CE60C80084	561.41	450.95
1"	1"	5"	2-1/4"	4	CE60C80089	686.48	554.95
1"	1"	6"	3"	4	CE60C80094	710.37	573.95

29536

Solid Carbide 4 Flute Square End Mills

M924 Series POW-R-FEED

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

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



Order No.	Regular Price	SALE
DD4167098	56.47	49.95
DD4167124	70.73	61.95
DD4167132	89.68	78.95
DD4167188	97.04	85.95
DD4167204	109.05	95.95
DD4167222	115.33	101.95
DD4167276	182.36	160.95
DD4167286	184.59	162.95
DD4167326	340.69	300.95
DD4167356	324.19	285.95
DD4167366	372.41	328.95
DD4167406	502.36	443.95
DD4167498	24.76	21.95
DD4167510	37.31	32.95
DD4167524	43.84	38.95
DD4167530	52.86	46.95

23396

endURO® M525 5 Flute Single End Mills with Corner Radius

Series M525-CR

Advanced tooling for aerospace and medical parts manufacturing. Hard core for hard work

- Amazing corner strength
- Fine micrograin tungsten carbide substrate
- Optimized rake and relief angles
- Variable indexing
- Five flutes, 40° helix
- Premium heat-resistant coating



Order No.	Regular Price	SALE
DD4065050	59.13	51.95

30960

4 Flute Solid Carbide Square End Mills

Series E14 • Center Cutting

- Precision ground for reliability and repeatability
- Fine grain carbide for greater toughness and wear resistance
- Coatings for a wide range of applications



Long				IM106 AITIN		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/8"	1/8"	3/4"	2-1/4"	DD4030417	26.26	22.95
0.313"	0.313"	1-1/8"	3"	DD4030461	60.09	52.95
5/8"	5/8"	2-1/4"	5"	DD4030561	226.87	199.95

Standard				IM106 AITIN			IM100 Uncoated		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.156"	0.188"	9/16"	2"	DD4030501	26.50	22.95	-	-	-
0.188"	0.188"	5/8"	2"	DD4030520	24.76	21.95	-	-	-
1/8"	1/8"	1/2"	1-1/2"	DD4030521	17.94	15.95	-	-	-
5/8"	5/8"	1-1/4"	3-1/2"	DD4030555	155.81	137.95	-	-	-
1/8"	1/8"	1/2"	1-1/2"	-	-	-	DD4030713	14.40	12.95
0.156"	0.188"	9/16"	2"	-	-	-	DD4030717	21.48	18.95
0.188"	0.188"	5/8"	2"	-	-	-	DD4030721	20.25	17.95
1/4"	1/4"	3/4"	2-1/2"	-	-	-	DD4030729	23.79	20.95
0.313"	0.313"	13/16"	2-1/2"	-	-	-	DD4030737	33.64	29.95
3/8"	3/8"	1"	2-1/2"	-	-	-	DD4030745	41.92	36.95
1/2"	1/2"	1"	3"	-	-	-	DD4030761	68.57	60.95
5/8"	5/8"	1-1/4"	3-1/2"	-	-	-	DD4030765	132.13	116.95
3/4"	3/4"	1-1/2"	4"	-	-	-	DD4030769	193.56	170.95
0.313"	0.313"	13/16"	2-1/2"	DD4030898	43.13	37.95	-	-	-

Extra Long				IM106 AITIN			IM100 Uncoated		
Cutting Diameter (DC)	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"	1/8"	3/4"	2-1/4"	-	-	-	DD4037708	22.73	19.95
0.188"	0.188"	3/4"	2-1/2"	-	-	-	DD4037712	29.12	25.95
1/4"	1/4"	1-1/8"	3"	-	-	-	DD4037716	35.88	31.95
0.313"	0.313"	1-1/8"	3"	-	-	-	DD4037720	47.76	41.95
3/8"	3/8"	1-1/8"	3"	-	-	-	DD4037724	55.79	48.95
3/8"	3/8"	1-1/8"	3"	-	-	-	-	-	-
1/2"	1/2"	2"	4"	-	-	-	DD4037732	96.97	85.95
1/2"	1/2"	2"	4"	DD4037735	115.85	101.95	-	-	-
5/8"	5/8"	2-1/4"	5"	-	-	-	DD4037740	186.64	164.95
3/4"	3/4"	2-1/4"	5"	-	-	-	DD4037748	248.62	218.95
3/4"	3/4"	2-1/4"	5"	DD4037751	297.61	262.95	-	-	-
0.188"	0.188"	3/4"	2-1/2"	DD4037793	35.56	30.95	-	-	-
3/8"	3/8"	1"	2-1/2"	DD4098244	51.93	45.95	-	-	-
1/2"	1/2"	1"	3"	DD4098245	83.04	72.95	-	-	-
1/4"	1/4"	3/4"	2-1/2"	DD4098955	30.27	26.95	-	-	-
3/4"	3/4"	1-1/2"	4"	DD4098956	228.05	200.95	-	-	-
1/4"	1/4"	1-1/8"	3"	DD4099336	44.13	38.95	-	-	-

23364

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



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Usable Length (LU)	Order No.	Regular Price	SALE
1/8"	3/8"	2-5/16"	-	MT2343651	18.37	12.95
3/16"	3/8"	2-5/16"	-	MT2343652	21.64	14.95
1/4"	3/8"	2-5/16"	-	MT2343653	32.53	22.95
5/16"	3/8"	2-5/16"	-	MT2343654	22.16	14.95
3/8"	3/8"	2-5/16"	-	MT2343655	32.53	22.95
7/16"	3/8"	2-1/2"	-	MT2343656	29.71	20.95
1/2"	1/2"	3"	-	MT2343658	28.08	19.95
9/16"	1/2"	3-1/8"	-	MT2343659	41.96	29.95
5/8"	5/8"	3-7/16"	-	MT2343661	38.84	26.95
3/4"	3/4"	3-9/16"	-	MT2343666	47.17	32.95
7/8"	3/4"	3-3/4"	-	MT2343670	60.84	41.95
1"	3/4"	3-3/4"	-	MT2343676	86.60	58.95
2"	1-1/4"	4-1/2"	-	MT2343690	266.63	184.95
1-1/8"	3/4"	3-7/8"	-	MT2343720	89.48	60.95
1-1/4"	3/4"	3-7/8"	-	MT2343721	97.70	65.95
1-3/8"	3/4"	3-7/8"	-	MT2343722	117.98	88.95
1-1/2"	3/4"	3-7/8"	-	MT2343723	125.79	84.95
1-3/4"	3/4"	3-7/8"	-	MT2343724	149.98	101.95

23974



Cobalt Coarse Pitch Center Cut Roughing End Mills

M42 8% Cobalt - Bright Finish or TiN Coated

- Cobalt offers increased wear and heat resistance for abrasive and difficult materials
- Center cutting end allows for plunge cutting like a drill into solid material
- Coarse pitch is recommended for a wide variety of materials of soft to medium hardness



					Uncoated			TiN		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/2"	1/2"	-	3-1/4"	4	CV3244910	56.08	32.95	CV3244921	87.38	56.95
1/2"	1/2"	-	4"	4	CV3244943	74.43	42.95	CV3244952	98.83	63.95
5/8"	5/8"	-	3-3/4"	4	CV3244911	92.26	52.95	CV3244922	113.52	75.95
5/8"	5/8"	-	4-5/8"	4	CV3244944	103.72	58.95	CV3244953	142.66	93.95
3/4"	3/4"	-	3-7/8"	4	CV3244912	114.73	64.95	CV3244923	137.01	90.95
3/4"	3/4"	-	5-1/4"	4	CV3244945	162.58	93.95	CV3244954	175.91	114.95
7/8"	3/4"	-	4-1/8"	5	CV3244913	158.99	91.95	CV3244924	193.11	125.95
1"	1"	-	4-1/2"	5	CV3244914	189.98	108.95	CV3244925	214.60	142.95
1"	1"	-	5-1/2"	5	CV3244946	223.42	127.95	CV3244955	256.47	169.95

23978



Solid Carbide 4-Flute Single End Mills

Center Cutting

- Micrograin carbide
- 30° Helix angle - regular length
- 4 Flutes for the milling of tougher materials and improved surface finish
- Carbide for higher cutting speeds and increased wear resistance, heat resistance and tool life
- TiAlN coating for abrasive materials and materials that generate higher cutting temperatures



				Uncoated			AlTiN		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/32"	1/8"	1/8"	1-1/2"	MT3257902	17.54	10.95	-	-	-
1/16"	1/8"	3/16"	1-1/2"	MT3257904	13.12	8.95	MT3290776	17.04	10.95
3/32"	1/8"	3/8"	1-1/2"	MT3257906	12.54	7.95	MT3290778	17.04	10.95
1/8"	1/8"	1/2"	1-1/2"	MT3257908	11.68	6.95	MT3290780	16.46	9.95
5/32"	3/16"	9/16"	2"	MT3257910	18.36	11.95	MT3290782	23.84	14.95
3/16"	3/16"	5/8"	2"	MT3257912	17.82	11.95	MT3290784	22.43	13.95
7/32"	1/4"	5/8"	2-1/2"	MT3257914	24.50	15.95	MT3290786	33.35	20.95
1/4"	1/4"	3/4"	2-1/2"	MT3257916	23.25	16.95	MT3290788	31.75	19.95
5/16"	5/16"	13/16"	2-1/2"	MT3257920	33.08	20.95	MT3290792	44.88	29.95
3/8"	3/8"	1"	2-1/2"	MT3257924	40.07	25.95	MT3290796	52.13	33.95
7/16"	7/16"	1"	2-3/4"	MT3257928	55.66	34.95	MT3290800	70.88	44.95
1/2"	1/2"	1"	3"	MT3257932	71.32	41.95	MT3290804	85.45	50.95
5/8"	5/8"	1-1/4"	3-1/2"	MT3257940	127.57	80.95	MT3290806	154.58	99.95
3/4"	3/4"	1-1/2"	4"	MT3257948	197.21	123.95	MT3290808	226.83	144.95
1"	1"	1-1/2"	4"	MT3257964	317.47	198.95	MT3290810	372.67	232.95

24013



M-42 8% Cobalt, 4-Flute Single End Mills

- M42 8% cobalt - center cutting
- Multi-flute end mills offer higher feed rates, improved surface finish and greater core strength for reduced tool deflection
- Center cutting end permits plunge cutting like a drill into solid material
- Increase wear and heat resistance
- For milling abrasive and difficult materials



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Usable Length (LU)	Order No.	Regular Price	SALE
1/8"	3/8"	2-5/16"	-	MT2544426	20.24	12.95
3/16"	3/8"	2-3/8"	-	MT2544427	20.00	11.95
1/4"	3/8"	2-7/16"	-	MT2544428	26.21	16.95
5/16"	3/8"	2-1/2"	-	MT2544429	21.50	13.95
3/8"	3/8"	2-1/2"	-	MT2544430	22.80	13.95
1/2"	1/2"	3-1/4"	-	MT2544431	38.89	24.95
5/8"	5/8"	3-3/4"	-	MT2544432	62.17	39.95
3/4"	3/4"	3-7/8"	-	MT2544434	79.37	49.95
1"	1"	4-1/2"	-	MT2544436	127.03	80.95
1-1/4"	1-1/4"	4-1/2"	-	MT2544438	187.15	117.95
1-1/2"	1-1/4"	4-1/2"	-	MT2544440	227.00	145.95

23996



Coolant Thru High Performance Drills

Solid Carbide • 3xD Length

- 140° Point
- Double margin
- 30° Helix
- Variantra® Supral (TiAlCN) coated
- Ideal for carbon steels, alloy steels, gray cast iron, ductile iron and other alloys
- PCT Cutters List #DXC



Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Length Chip Flute (LCF)	Overall Length (OAL)	Order No.	Regular Price	SALE
3.18 mm	-	6 mm	20 mm	62 mm	CW8170025	104.76	91.95
3.57 mm	-	6 mm	20 mm	62 mm	CW8170050	104.76	91.95
3.97 mm	-	6 mm	24 mm	66 mm	CW8170075	104.76	91.95
4.37 mm	-	6 mm	24 mm	66 mm	CW8170100	103.44	90.95
4.76 mm	-	6 mm	28 mm	66 mm	CW8170125	102.09	89.95
5.16 mm	-	6 mm	28 mm	66 mm	CW8170145	102.09	89.95
5.55 mm	-	6 mm	28 mm	66 mm	CW8170175	99.42	87.95
5.95 mm	-	6 mm	28 mm	66 mm	CW8170200	99.42	87.95
6.35 mm	-	8 mm	34 mm	79 mm	CW8170225	145.85	127.95
6.75 mm	-	8 mm	34 mm	79 mm	CW8170250	144.44	126.95
7.15 mm	-	8 mm	41 mm	79 mm	CW8170275	143.12	125.95
7.54 mm	-	8 mm	41 mm	79 mm	CW8170300	141.64	124.95
7.94 mm	-	8 mm	41 mm	79 mm	CW8170320	141.64	124.95
8.33 mm	-	10 mm	47 mm	89 mm	CW8170345	203.50	178.95
8.73 mm	-	10 mm	47 mm	89 mm	CW8170370	201.41	176.95
9.13 mm	-	10 mm	47 mm	89 mm	CW8170385	199.36	175.95
9.53 mm	-	10 mm	47 mm	89 mm	CW8170405	197.26	173.95
9.92 mm	-	10 mm	47 mm	89 mm	CW8170425	197.26	173.95
10.32 mm	-	12 mm	55 mm	102 mm	CW8170450	262.33	230.95
10.72 mm	-	12 mm	55 mm	102 mm	CW8170465	262.33	230.95
11.11 mm	-	12 mm	55 mm	102 mm	CW8170485	259.51	228.95
11.51 mm	-	12 mm	55 mm	102 mm	CW8170500	256.75	225.95
11.9 mm	-	12 mm	55 mm	102 mm	CW8170515	256.75	225.95
12.3 mm	-	14 mm	60 mm	107 mm	CW8170540	329.60	289.95
12.7 mm	-	14 mm	60 mm	107 mm	CW8170555	326.79	287.95



3 Flute Carbide Corner Rounding End Mills



Double End

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

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Corner Radius (RE)	Uncoated			AlTiN		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	2"	0.01"	GE97681200	28.87	25.95	GE97681200C	32.89	28.95
1/8"	1/8"	2"	0.0156"	GE97681205	28.87	25.95	GE97681205C	32.89	28.95
1/8"	1/8"	2"	0.02"	GE97681210	28.87	22.95	GE97681210C	32.89	28.95
1/8"	1/8"	2"	0.025"	GE97681215	28.87	25.95	GE97681215C	32.89	28.95
1/8"	1/8"	2"	0.0312"	GE97681220	28.87	25.95	GE97681220C	32.89	28.95
0.187"	0.187"	2-1/2"	0.0156"	GE97681221	31.21	26.95	GE97681221C	38.40	34.95
0.187"	0.187"	2-1/2"	0.0312"	GE97681222	31.21	27.95	GE97681222C	38.40	34.95
0.187"	0.187"	2-1/2"	0.0625"	GE97681223	31.21	27.95	GE97681223C	38.40	34.95
1/4"	1/4"	2-1/2"	0.01"	GE97681225	40.12	35.95	GE97681225C	50.87	44.95
1/4"	1/4"	2-1/2"	0.0156"	GE97681230	40.12	35.95	GE97681230C	50.87	44.95
1/4"	1/4"	2-1/2"	0.02"	GE97681235	40.12	35.95	GE97681235C	50.87	44.95
1/4"	1/4"	2-1/2"	0.025"	GE97681240	40.12	35.95	GE97681240C	50.87	44.95
1/4"	1/4"	2-1/2"	0.0312"	GE97681245	40.12	35.95	GE97681245C	50.87	44.95
1/4"	1/4"	2-1/2"	0.035"	GE97681250	40.12	35.95	GE97681250C	50.87	44.95
1/4"	1/4"	2-1/2"	0.0394"	GE97681255	40.12	35.95	GE97681255C	50.87	44.95
1/4"	1/4"	2-1/2"	0.0469"	GE97681260	40.12	35.95	GE97681260C	50.87	44.95
1/4"	1/4"	2-1/2"	0.05"	GE97681265	40.12	35.95	GE97681265C	50.87	44.95
1/4"	1/4"	2-1/2"	0.055"	GE97681270	40.12	35.95	GE97681270C	50.87	44.95
1/4"	1/4"	2-1/2"	0.0591"	GE97681275	40.12	35.95	GE97681275C	50.87	44.95
1/4"	1/4"	2-1/2"	0.0625"	GE97681280	40.12	35.95	GE97681280C	50.87	44.95
1/4"	1/4"	2-1/2"	0.07"	GE97681285	40.12	35.95	GE97681285C	50.87	44.95
1/4"	1/4"	2-1/2"	0.075"	GE97681290	40.12	35.95	GE97681290C	50.87	44.95
3/8"	3/8"	2-1/2"	0.0781"	GE97681295	66.89	59.95	GE97681295C	77.63	68.95
3/8"	3/8"	2-1/2"	0.0787"	GE97681297	66.89	59.95	GE97681297C	77.63	68.95
3/8"	3/8"	2-1/2"	0.0938"	GE97681300	66.89	59.95	GE97681300C	77.63	68.95
3/8"	3/8"	2-1/2"	0.0984"	GE97681302	66.89	59.95	GE97681302C	77.63	68.95
3/8"	3/8"	2-1/2"	0.1094"	GE97681305	66.89	59.95	GE97681305C	77.63	68.95
3/8"	3/8"	2-1/2"	0.1181"	GE97681307	66.89	59.95	GE97681307C	77.63	68.95
3/8"	3/8"	2-1/2"	1/8"	GE97681310	66.89	59.95	GE97681310C	77.63	68.95
1/2"	1/2"	3"	0.14"	GE97681312	104.53	92.95	GE97681312C	117.14	102.95
1/2"	1/2"	3"	0.1562"	GE97681315	104.53	92.95	GE97681315C	117.14	102.95
1/2"	1/2"	3"	0.1575"	GE97681317	104.53	92.95	GE97681317C	117.14	102.95
1/2"	1/2"	3"	0.1718"	GE97681320	104.53	92.95	GE97681320C	117.14	102.95
1/2"	1/2"	3"	3/16"	GE97681325	104.53	92.95	GE97681325C	117.14	102.95
5/8"	5/8"	3-1/2"	0.1969"	GE97681327	119.70	105.95	GE97681327C	150.42	132.95
5/8"	5/8"	3-1/2"	0.2031"	GE97681330	119.70	105.95	GE97681330C	150.42	132.95
5/8"	5/8"	3-1/2"	0.2188"	GE97681335	119.70	105.95	GE97681335C	150.42	132.95
5/8"	5/8"	3-1/2"	0.2344"	GE97681340	119.70	105.95	GE97681340C	150.42	132.95
5/8"	5/8"	3-1/2"	0.2362"	GE97681342	119.70	105.95	GE97681342C	150.42	132.95
5/8"	5/8"	3-1/2"	1/4"	GE97681345	119.70	105.95	GE97681345C	150.42	132.95
3/4"	3/4"	4"	0.2812"	GE97681350	159.58	142.95	GE97681350C	196.98	174.95
3/4"	3/4"	4"	0.2969"	GE97681352	159.58	142.95	GE97681352C	196.98	174.95
3/4"	3/4"	4"	0.3125"	GE97681355	159.58	142.95	GE97681355C	196.98	174.95
1"	1"	4"	0.3281"	GE97681360	192.52	170.95	GE97681360C	245.28	215.95
1"	1"	4"	0.3438"	GE97681365	192.52	170.95	GE97681365C	245.28	215.95
1"	1"	4"	3/8"	GE97681370	192.52	168.95	GE97681370C	245.28	215.95

CUTTING TOOLS

HSS M GP Screw Machine Drills - Fractional

Sizes

High Speed Steel • 118° Standard Point • Bright Finish

- Developed primarily for use in screw machines
- The short length of these drills offers increased rigidity for strength, in machine and portable uses
- Morse List #1435
- Chicago-Latrobe List #157
- Precision Twist List #R40

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Flute Length	Overall Length (OAL)	Morse Cutting Tools			Chicago-Latrobe		
				Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
3/64"	0.0469"	1/2"	1-3/8"	-	-	-	-	-	-
1/16"	0.0625"	5/8"	1-5/8"	MT1415110	1.73	1.30	CH1648504	2.77	2.25
5/64"	0.0781"	11/16"	1-11/16"	MT1415116	1.82	1.30	CH1648505	2.84	2.30
3/32"	0.0938"	3/4"	1-3/4"	MT1415123	1.98	1.40	CH1648506	2.84	2.30
7/64"	0.1094"	13/16"	1-13/16"	MT1415130	1.93	1.40	CH1648507	2.84	2.30
1/8"	0.125"	7/8"	1-7/8"	MT1415136	1.98	1.40	CH1648508	2.84	2.30
9/64"	0.1406"	15/16"	1-15/16"	MT1415140	2.02	1.40	CH1648509	2.94	2.35
5/32"	0.1563"	1"	2-1/16"	MT1415146	2.05	1.50	CH1648510	3.09	2.50
11/64"	0.1719"	1-1/16"	2-1/8"	MT1415152	2.25	1.70	CH1648511	3.33	2.65
3/16"	0.1875"	1-1/8"	2-3/16"	MT1415158	2.42	1.95	CH1648512	3.37	2.70
13/64"	0.2031"	1-3/16"	2-1/4"	MT1415165	2.59	1.95	CH1648513	3.82	3.05
7/32"	0.2188"	1-1/4"	2-3/8"	MT1415170	2.74	1.95	CH1648514	4.14	3.30
15/64"	0.2344"	1-5/16"	2-7/16"	MT1415174	3.02	2.10	CH1648515	4.46	3.55
1/4"	0.25"	1-3/8"	2-1/2"	MT1415178	3.20	2.20	CH1648516	4.82	3.85
17/64"	0.2656"	1-7/16"	2-5/8"	MT1415182	3.51	2.50	CH1648517	5.38	4.29
9/32"	0.2813"	1-1/2"	2-11/16"	MT1415187	4.03	2.95	CH1648518	5.70	4.55
19/64"	0.2969"	1-9/16"	2-3/4"	MT1415190	4.24	2.95	CH1648519	6.46	5.15
5/16"	0.3125"	1-5/8"	2-13/16"	MT1415192	4.36	2.50	CH1648520	6.67	5.35
21/64"	0.3281"	1-11/16"	2-15/16"	MT1415195	4.76	3.95	CH1648521	7.28	5.95
11/32"	0.3438"	1-11/16"	3"	MT1415198	5.41	3.95	CH1648522	8.06	5.95
23/64"	0.3594"	1-3/4"	3-1/16"	MT1415201	5.97	3.95	CH1648523	9.22	6.95
3/8"	0.375"	1-13/16"	3-1/8"	MT1415203	6.29	4.95	CH1648524	9.74	7.95
25/64"	0.3906"	1-7/8"	3-1/4"	MT1415206	6.89	4.95	CH1648525	11.17	8.95
13/32"	0.4063"	1-15/16"	3-5/16"	MT1415209	7.63	5.95	CH1648526	11.69	8.95
27/64"	0.4219"	2"	3-3/8"	MT1415211	7.90	5.95	CH1648527	12.68	9.95
7/16"	0.4375"	2-1/16"	3-7/16"	MT1415212	8.48	5.95	CH1648528	12.84	9.95
29/64"	0.4531"	2-1/8"	3-9/16"	MT1415213	9.25	6.95	CH1648529	15.00	11.95
15/32"	0.4688"	2-1/8"	3-5/8"	MT1415214	10.09	6.95	CH1648530	16.13	12.95
31/64"	0.4844"	2-3/16"	3-11/16"	MT1415215	10.46	7.95	CH1648531	16.96	13.95
1/2"	0.5"	2-1/4"	3-3/4"	MT1415216	10.93	7.95	CH1648532	17.28	13.95
33/64"	0.5156"	2-3/8"	3-7/8"	MT1415217	37.37	28.95	CH1648533	48.48	38.95
17/32"	0.5313"	2-3/8"	3-7/8"	MT1415218	38.22	29.95	CH1648534	49.74	39.95
35/64"	0.5469"	2-1/2"	4"	MT1415219	39.87	30.95	CH1648535	52.51	41.95
9/16"	0.5625"	2-1/2"	4"	MT1415220	40.12	30.95	CH1648536	52.64	41.95
37/64"	0.5781"	2-5/8"	4-1/8"	MT1415221	42.98	33.95	CH1648537	54.99	43.95
19/32"	0.5938"	2-5/8"	4-1/8"	MT1415222	44.83	34.95	CH1648538	56.89	44.95
39/64"	0.6094"	2-3/4"	4-1/4"	MT1415223	45.28	34.95	CH1648539	59.14	46.95
5/8"	0.625"	2-3/4"	4-1/4"	MT1415224	45.28	34.95	CH1648540	59.64	47.95
41/64"	0.6406"	2-7/8"	4-1/2"	MT1415225	48.35	37.95	CH1648541	63.79	50.95
21/32"	0.6563"	2-7/8"	4-1/2"	MT1415226	51.29	39.95	CH1648542	66.19	52.95
43/64"	0.6719"	2-7/8"	4-5/8"	MT1415227	51.49	39.95	CH1648543	69.19	54.95
11/16"	0.6875"	2-7/8"	4-5/8"	MT1415228	53.30	41.95	CH1648544	70.39	55.95
45/64"	0.7031"	3"	4-3/4"	MT1415229	57.91	44.95	CH1648545	75.63	59.95
23/32"	0.7188"	3"	4-3/4"	MT1415230	60.70	46.95	CH1648546	78.75	62.95
47/64"	0.7344"	3-1/8"	5"	MT1415231	61.95	47.95	CH1648547	79.84	63.95
3/4"	0.75"	3-1/8"	5"	MT1415232	66.35	51.95	CH1648548	84.05	66.95
49/64"	0.7656"	3-1/4"	5-1/8"	MT1415233	70.05	53.95	CH1648549	90.73	71.95
25/32"	0.7813"	3-1/4"	5-1/8"	MT1415234	70.05	53.95	CH1648550	90.54	71.95
51/64"	0.7969"	3-3/8"	5-1/4"	MT1415235	74.02	56.95	CH1648551	97.42	77.95
13/16"	0.8125"	3-3/8"	5-1/4"	MT1415236	77.65	59.95	CH1648552	97.89	77.95
53/64"	0.8281"	3-1/2"	5-3/8"	MT1415237	79.18	60.95	CH1648553	101.87	80.95
27/32"	0.8438"	3-1/2"	5-3/8"	MT1415238	79.99	61.95	CH1648554	103.60	82.95
55/64"	0.8594"	3-1/2"	5-1/2"	MT1415239	85.43	67.95	CH1648555	108.68	86.95
7/8"	0.875"	3-1/2"	5-1/2"	MT1415240	91.58	72.95	CH1648556	112.99	89.95
57/64"	0.8906"	3-5/8"	5-5/8"	MT1415241	92.90	73.95	CH1648557	116.18	92.95
29/32"	0.9063"	3-5/8"	5-5/8"	MT1415242	92.90	73.95	CH1648558	114.53	90.95
59/64"	0.9219"	3-3/4"	5-3/4"	MT1415243	94.32	74.95	CH1648559	121.44	96.95
15/16"	0.9375"	3-3/4"	5-3/4"	MT1415244	98.96	77.95	CH1648560	129.45	102.95
61/64"	0.9531"	3-7/8"	5-7/8"	MT1415245	103.20	81.95	CH1648561	130.30	103.95

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Flute Length	Overall Length (OAL)	Morse Cutting Tools			Chicago-Latrobe		
				Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
31/32"	0.9688"	3-7/8"	5-7/8"	MT1415246	107.35	84.95	-	-	-
63/64"	0.9844"	4"	6"	MT1415247	107.55	84.95	CH1648563	141.02	112.95
1"	-	4"	6"	MT1415248	117.07	91.95	CH1648564	145.96	116.95
1-1/16"	1.0625"	4"	6-1/4"	MT1415249	126.55	98.95	-	-	-
1-1/8"	1.125"	4"	6-3/8"	MT1415250	143.23	111.95	CH1648572	185.97	151.95
1-3/16"	1.1875"	4-1/4"	6-5/8"	MT1415251	147.22	114.95	CH1648576	206.30	167.95
1-1/4"	1.25"	4-3/8"	6-3/4"	MT1415252	176.36	139.95	CH1648568	169.82	135.95
1-5/16"	1.3125"	4-3/8"	7"	MT1415253	270.91	211.95	-	-	-
1-3/8"	1.375"	4-1/2"	7-1/8"	MT1415254	276.48	215.95	-	-	-
1-7/16"	1.4375"	4-3/4"	7-3/8"	MT1415255	295.78	229.95	-	-	-
1-1/2"	1.5"	4-7/8"	7-1/2"	MT1415256	301.78	234.95	-	-	-
1-9/16"	1.5625"	4-7/8"	7-3/4"	MT1415257	379.35	292.95	-	-	-
1-5/8"	1.625"	4-7/8"	7-3/4"	MT1415258	433.42	334.95	-	-	-
1-11/16"	1.6875"	5-1/8"	8"	MT1415259	478.35	369.95	-	-	-
1-3/4"	1.75"	5-1/8"	8"	MT1415260	478.35	369.95	-	-	-
1-13/16"	1.8125"	5-3/8"	8-1/4"	MT1415261	528.96	409.95	-	-	-
1-7/8"	1.875"	5-3/8"	8-1/4"	MT1415262	528.96	409.95	-	-	-
1-15/16"	1.9375"	5-5/8"	8-1/2"	MT1415263	546.39	422.95	-	-	-
2"	-	5-5/8"	8-1/2"	MT1415264	572.17	434.95	-	-	-

10621

HSS M PM Heavy Duty Jobber Drills - Letter Sizes

Cobalt • 135° Split Point

- For drilling in tough, high tensile strength materials like stainless steels, titanium and inconel
- Made of heat resistant cobalt high speed steel
- Made to NAS907 Type J specifications
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- Morse List #2332
- Chicago-Latrobe List #550
- Precision Twist List #R15CO

		Morse Cutting Tools			Chicago-Latrobe			Precision Twist Drill		
Drill Bit Size / Cutting Diameter (DC)	Overall Length (OAL)	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
A	3-7/8"	MT1117173	7.04	4.95	CH1246771	10.41	7.95	PT1115301	14.88	12.95
B	4"	MT1117175	7.53	4.95	CH1246772	11.07	8.95	PT1115302	17.30	13.95
C	4"	MT1117176	7.46	4.95	CH1246773	11.07	8.95	PT1115303	17.30	13.95
D	4"	MT1117177	7.38	4.95	CH1246774	11.25	8.95	PT1115304	19.42	15.95
1/4" E	4"	MT1117178	6.63	4.95	CH1246616	9.87	7.95	PT1110316	13.54	11.95
F	4-1/8"	MT1117180	7.50	4.95	CH1246776	11.57	8.95	PT1115306	17.05	14.95
G	4-1/8"	MT1117181	7.79	5.95	CH1246777	12.31	9.95	PT1115307	17.30	13.95
H	4-1/8"	MT1117183	8.25	5.95	CH1246778	12.65	9.95	PT1115308	19.42	15.95
I	4-1/8"	MT1117184	8.77	5.95	CH1246779	12.98	9.95	PT1115309	18.13	15.95
J	4-1/8"	MT1117185	8.66	5.95	CH1246780	13.78	10.95	PT1115310	19.42	15.95
K	4-1/4"	MT1117186	9.48	6.95	CH1246781	14.14	10.95	PT1115311	19.42	15.95
L	4-1/4"	MT1117188	9.82	6.95	CH1246782	15.46	11.95	PT1115312	22.04	19.95
M	4-3/8"	MT1117189	10.04	6.95	CH1246783	16.79	12.95	PT1115313	23.28	20.95
N	4-3/8"	MT1117191	10.38	7.95	CH1246784	17.14	13.95	PT1115314	23.28	20.95
O	4-1/2"	MT1117193	11.10	6.95	CH1246785	18.64	14.95	PT1115315	25.60	22.95
P	4-5/8"	MT1117194	11.59	8.95	CH1246786	19.51	15.95	PT1115316	27.35	24.95
Q	4-3/4"	MT1117196	12.18	8.95	CH1246787	19.65	15.95	PT1115317	28.38	25.95
R	4-3/4"	MT1117197	12.29	8.95	CH1246788	20.02	15.95	PT1115318	28.38	25.95
S	4-7/8"	MT1117199	13.95	10.95	CH1246789	23.56	18.95	PT1115319	34.61	30.95
T	4-7/8"	MT1117200	14.10	10.95	CH1246790	24.10	18.95	PT1115320	34.61	30.95
U	5"	MT1117202	15.93	11.95	CH1246791	24.95	19.95	PT1115321	34.61	30.95
V	5"	MT1117204	16.61	12.95	CH1246792	26.08	20.95	PT1115322	38.26	33.95
W	5-1/8"	MT1117205	17.02	12.95	CH1246793	26.35	20.95	PT1115323	38.26	33.95
X	5-1/8"	MT1117207	17.88	13.95	CH1246794	27.92	21.95	PT1115324	38.26	33.95
Y	5-1/4"	MT1117208	18.14	13.95	CH1246795	28.25	22.95	PT1115325	40.48	35.95
Z	5-1/4"	MT1117210	19.34	14.95	CH1246796	30.57	23.95	PT1115326	44.19	39.95



3-in-1 118° Standard & 135° Split Point Combination High Speed Steel Jobber Drill Sets

- Complete with index
- Drills ground from solid



				Morse Cutting Tools			Chicago-Latrobe		
Quantity	Diameter Range	Coating	Tool Type	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
115	1/16" to 1/2" [A to Z] #1 to #60	Bright	Jobber Length	MT1218004	437.13	328.95	CH1049928	777.63	627.95
115	1/16" to 1/2" [A to Z] #1 to #60	Black Oxide	Jobber Length	MT1218003	441.49	331.95	CH1057728	771.82	623.95
115	1/16" to 1/2" [A to Z] #1 to #60	Black Oxide	Split Point Heavy Duty	-	-	-	CH1045650	901.39	712.95

9624



Uniflute® Countersink Sets

High Speed Steel

- In plastic case
- 4 Pc. sets include: 1/4, 1/2, 3/4 and 1" diameter tools
- 7 Pc. sets include: 3/16, 1/4, 3/8, 1/2, 5/8, 3/4 and 1" diameter tools
- M.A.Ford List #64



Quantity - 4			
Point Angle (SIG)	Order No.	Regular Price	SALE
60 Degrees	BC7064001	110.12	80.95
82 Degrees	BC7064006	110.12	80.95
90 Degrees	BC7064011	110.12	80.95
100 Degrees	BC7064016	110.12	80.95
120 Degrees	BC7064021	110.12	80.95

Quantity - 7			
Point Angle (SIG)	Order No.	Regular Price	SALE
60 Degrees	BC7064003	156.44	115.95
82 Degrees	BC7064008	156.44	115.95
90 Degrees	BC7064013	156.44	115.95
100 Degrees	BC7064018	156.44	115.95
120 Degrees	BC7064023	156.44	115.95

9955



Cobalt Screw Machine Drills

- Cobalt heavy duty
- High speed steel
- Surface treated
- 135° Split point



Order No.	Regular Price	SALE
PT1840304	4.76	4.30
PT1840305	4.78	4.30
PT1840306	4.76	4.30
PT1840307	5.40	4.90
PT1840308	6.18	5.40
PT1840309	6.26	5.50
PT1840310	6.79	5.95
PT1840311	7.69	6.95
PT1840312	9.02	7.95
PT1840313	10.29	8.95
PT1840314	11.33	9.95
PT1840315	12.57	10.95
PT1840316	12.62	10.95
PT1840317	14.83	12.95
PT1840318	15.66	13.95
PT1840319	18.80	16.95
PT1840320	19.52	17.95
PT1840321	22.30	19.95
PT1840322	23.48	20.95
PT1840323	27.76	24.95
PT1840324	26.99	23.95
PT1840325	31.83	28.95
PT1840326	31.88	28.95
PT1840327	36.26	32.95
PT1840328	36.26	32.95
PT1840329	44.81	39.95
PT1840330	43.52	38.95
PT1840331	44.81	39.95
PT1840332	43.31	38.95

24344



6 Flute Chatterless Countersink Sets

High Speed Steel • In Plastic Case

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



	60 Degrees			90 Degrees			82 Degrees			100 Degrees			90 Degrees, TiN			60 Degrees, TiN			82 Degrees, TiN		
Quantity	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
4	BC7579003	116.02	90.95	-	-	-	BC7579008	116.02	90.95	BC7579019	116.02	90.95	BC7579384	159.60	124.95	BC7579380	159.60	124.95	BC7579382	159.60	124.95
7	BC7579001	168.83	131.95	BC7579011	168.83	131.95	BC7579006	168.83	131.95	BC7579016	168.83	131.95	-	-	-	-	-	-	-	-	-

9905

CUTTING TOOLS

HSS MGP General Purpose Hand Taps - Fractional Sizes

Ground Thread • High Speed Steel

				Morse Cutting Tools, Taper			Morse Cutting Tools, Plug			Morse Cutting Tools, Bottoming		
Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Thread Tolerance Class (TCTR)	Flute Count (NOF)	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
1/4"	20	H3	2	-	-	-	MT3632405	9.01	6.95	MT3732603	9.43	6.95
1/4"	20	H3	3	-	-	-	MT3732406	9.01	6.95	MT3732604	8.47	5.95
1/4"	20	H5	3	-	-	-	MT3732408	8.34	5.95	MT3732606	8.47	5.95
1/4"	20	H1	4	MT3732301	8.72	5.95	MT3732402	9.17	6.95	MT3732601	9.60	5.95
1/4"	20	H2	4	MT3732302	8.72	5.95	MT3732404	8.72	5.95	MT3732602	8.72	5.95
1/4"	20	H3	4	MT3732303	7.09	4.95	MT3732407	7.09	4.95	MT3732605	7.09	4.95
1/4"	20	H5	4	-	-	-	MT3732409	8.72	5.95	-	-	-
1/4"	28	H3	2	-	-	-	MT3732412	8.92	6.95	MT3732609	9.01	6.95
1/4"	28	H3	3	-	-	-	MT3732413	9.01	6.95	MT3732610	9.01	6.95
1/4"	28	H1	4	-	-	-	MT3732410	8.72	5.95	MT3732607	8.72	5.95
1/4"	28	H2	4	-	-	-	MT3732411	8.72	5.95	MT3732608	9.17	6.95
1/4"	28	H3	4	MT3732304	7.30	4.95	MT3732414	7.30	4.95	MT3732611	7.30	4.95
1/4"	28	H4	4	-	-	-	MT3732415	6.66	3.95	MT3732612	7.30	4.95
5/16"	18	H3	2	-	-	-	-	-	-	MT3732615	11.43	8.95
5/16"	18	H3	3	-	-	-	MT3732420	10.47	7.95	MT3732616	10.01	6.95
5/16"	18	H2	4	-	-	-	MT3732418	10.14	7.95	MT3732614	10.14	7.95
5/16"	18	H3	4	MT3732305	9.01	6.95	MT3732421	9.01	6.95	MT3732617	9.01	6.95
5/16"	18	H5	4	-	-	-	MT3732422	10.14	7.95	MT3732618	10.14	7.95
5/16"	24	H3	3	-	-	-	MT3732425	9.22	6.95	MT3732620	10.47	7.95
5/16"	24	H2	4	-	-	-	MT3732424	10.14	7.95	-	-	-
5/16"	24	H3	4	MT3732306	9.01	6.95	MT3732426	9.01	6.95	MT3732621	9.01	6.95
5/16"	24	H4	4	-	-	-	MT3732427	9.01	6.95	-	-	-
3/8"	16	H1	4	-	-	-	MT3732429	11.48	7.95	-	-	-
3/8"	16	H2	4	-	-	-	MT3732430	11.48	7.95	MT3732624	11.48	7.95
3/8"	16	H3	3	-	-	-	MT3732431	11.22	6.95	MT3732625	11.22	6.95
3/8"	16	H3	4	MT3732307	10.14	7.95	MT3732432	10.14	7.95	MT3732626	10.14	7.95
3/8"	16	H5	4	-	-	-	MT3732434	11.02	6.95	MT3732627	11.48	7.95
3/8"	24	H3	3	-	-	-	MT3732437	12.84	8.95	MT3732630	12.84	8.95
3/8"	24	H1	4	-	-	-	MT3732435	11.02	6.95	-	-	-
3/8"	24	H2	4	-	-	-	MT3732436	11.48	7.95	MT3732629	11.48	7.95
3/8"	24	H3	4	MT3732308	10.14	7.95	MT3732438	10.14	7.95	MT3732631	10.14	7.95
3/8"	24	H4	4	-	-	-	MT3732439	10.14	7.95	-	-	-
7/16"	14	H3	3	-	-	-	MT3732440	18.65	13.95	-	-	-
7/16"	14	H3	4	MT3732309	16.32	9.95	MT3732441	16.32	9.95	MT3732633	16.32	9.95
7/16"	14	H5	4	-	-	-	MT3732442	17.93	11.95	MT3732634	19.07	12.95
7/16"	20	H3	3	-	-	-	MT3732443	18.65	13.95	-	-	-
7/16"	20	H3	4	MT3732310	17.39	11.95	MT3732444	17.39	11.95	MT3732635	17.39	11.95
7/16"	20	H5	4	-	-	-	MT3732445	19.07	12.95	MT3732636	19.07	12.95
1/2"	13	H1	4	-	-	-	MT3732446	22.15	14.95	-	-	-
1/2"	13	H3	4	MT3732311	18.30	12.95	MT3732449	18.30	12.95	MT3732640	18.30	12.95
1/2"	13	H5	4	-	-	-	MT3732450	22.43	13.95	MT3732641	21.82	14.95
1/2"	13	H3	3	-	-	-	MT3732448	22.15	14.95	MT3732639	22.15	14.95
1/2"	20	H1	4	-	-	-	MT3732451	22.43	15.95	MT3732642	21.60	15.95
1/2"	20	H3	4	MT3732312	20.86	13.95	MT3732453	20.86	13.95	MT3732643	20.86	13.95
1/2"	20	H5	4	-	-	-	MT3732454	22.43	13.95	-	-	-
9/16"	12	H3	4	MT3732313	30.74	19.95	MT3732455	30.74	19.95	MT3732644	30.74	19.95
9/16"	12	H5	4	-	-	-	MT3732456	31.36	22.95	-	-	-
9/16"	18	H2	4	-	-	-	MT3732457	33.59	24.95	-	-	-
9/16"	18	H3	4	MT3732314	30.74	19.95	MT3732458	30.74	19.95	MT3732645	30.74	19.95
9/16"	18	H5	4	-	-	-	MT3732459	33.59	24.95	-	-	-
5/8"	11	H2	4	-	-	-	MT3732460	37.08	27.95	-	-	-
5/8"	11	H3	4	MT3732315	37.08	25.95	MT3732461	37.08	25.95	MT3732647	37.08	25.95

				Morse Cutting Tools, Taper			Morse Cutting Tools, Plug			Morse Cutting Tools, Bottoming		
Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Thread Tolerance Class (TCTR)	Flute Count (NOF)	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
5/8"	11	H5	4	-	-	-	MT3732462	42.67	28.95	MT3732648	42.67	28.95
5/8"	18	H2	4	-	-	-	MT3732463	42.67	31.95	-	-	-
5/8"	18	H3	4	MT3732316	37.08	25.95	MT3732464	37.08	25.95	MT3732649	37.08	25.95
5/8"	18	H5	4	-	-	-	MT3732465	40.22	29.95	MT3732650	42.67	31.95
11/16"	11	H3	4	MT3732317	46.01	30.95	MT3732466	46.01	30.95	MT3732651	46.01	30.95
11/16"	16	H3	4	MT3732318	46.01	30.95	MT3732467	46.01	30.95	MT3732652	46.01	33.95
3/4"	10	H3	4	MT3732319	52.22	33.95	MT3732469	52.22	33.95	MT3732653	52.22	33.95
3/4"	10	H5	4	-	-	-	MT3732470	55.57	40.95	MT3732654	55.57	40.95
3/4"	16	H1	4	-	-	-	MT3732471	55.57	40.95	-	-	-
3/4"	16	H2	4	-	-	-	MT3732472	55.51	40.95	-	-	-
3/4"	16	H3	4	MT3732320	52.22	33.95	MT3732473	52.22	33.95	MT3732655	52.22	33.95
3/4"	16	H5	4	-	-	-	MT3732474	55.57	40.95	MT3732656	55.57	40.95
7/8"	9	H4	4	MT3732321	71.83	52.95	MT3732475	71.83	52.95	MT3732657	71.83	52.95
7/8"	9	H6	4	-	-	-	MT3732476	75.41	55.95	-	-	-
7/8"	14	H2	4	-	-	-	MT3732477	71.83	52.95	-	-	-
7/8"	14	H4	4	MT3732322	71.83	52.95	MT3732478	71.83	52.95	MT3732658	71.83	52.95
1"	12	H4	4	MT3732324	95.85	70.95	MT3732482	95.85	70.95	MT3732660	95.85	70.95
1"	14	H4	4	MT3732325	92.93	68.95	MT3732484	92.93	68.95	MT3732661	92.93	68.95
1-1/8"	7	H4	4	MT3732326	153.59	112.95	MT3732485	153.59	112.95	MT3732662	161.25	118.95
1-1/8"	12	H4	4	MT3732327	165.89	121.95	MT3732486	165.89	121.95	MT3732663	165.89	121.95
1-1/4"	7	H4	4	MT3732328	202.72	148.95	MT3732487	202.72	148.95	MT3732664	202.72	148.95
1-1/4"	12	H4	6	MT3732329	205.73	150.95	MT3732488	205.73	150.95	MT3732665	205.73	150.95
1-3/8"	6	H4	4	MT3732330	247.27	180.95	MT3732489	247.27	180.95	MT3732666	247.27	180.95
1-3/8"	12	H4	6	MT3732331	257.87	188.95	MT3732490	257.87	188.95	MT3732667	257.87	188.95
1-1/2"	6	H4	4	MT3732332	294.78	215.95	MT3732491	294.78	215.95	MT3732668	294.78	215.95
1-1/2"	12	H4	6	MT3732333	300.90	220.95	MT3732492	300.90	220.95	MT3732669	315.97	231.95

†Available in 2 Flute in stock •Available in 3 flute from stock Note: OSG 10002 steam oxide available

HSS MGP Taper Pipe Taps

High Speed Steel

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



					Morse Cutting Tools, NPT, Bright			Morse Cutting Tools, NPTF, Bright		
Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/16"	27	4	11/16"	2-1/8"	MT4036121	28.03	20.95	MT4036141	28.03	19.95
1/8"	27	4	3/4"	2-1/8"	MT4036122	27.89	20.95	MT4036142	27.89	20.95
1/8"	27	4	3/4"	2-1/8"	MT4036123	27.89	20.95	MT4036143	27.89	20.95
1/4"	18	4	1-1/16"	2-7/16"	MT4036124	30.48	22.95	MT4036144	30.48	22.95
3/8"	18	4	1-1/16"	2-9/16"	MT4036125	40.01	28.95	MT4036145	40.01	28.95
1/2"	14	4	1-3/8"	3-1/8"	MT4036126	63.68	45.95	MT4036146	63.68	45.95
3/4"	14	5	1-3/8"	3-1/4"	MT4036127	90.11	64.95	MT4036147	90.11	64.95
1"	11.5	5	1-3/4"	3-3/4"	MT4036128	135.84	97.95	MT4036148	135.84	97.95
1-1/4"	11	5	1-3/4"	4"	MT4036129	192.35	136.95	MT4036149	192.35	136.95
1-1/2"	11.5	7	1-3/4"	4-1/4"	MT4036130	263.78	187.95	MT4036150	263.78	187.95
2"	11.5	7	1-3/4"	4-1/2"	MT4036131	354.47	252.95	MT4036151	354.47	250.95

†Small shank .3125 diameter



Helical Flute Thread Mills - UN

Threads

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

Tolerance:

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

Thread Size	Threads per Inch (TPI)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Flute Count (NOF)	Order No.	Regular Price	SALE
#6	32	1/8"	0.218"	3	MT3098600	89.86	65.95
#8	32	1/8"	1/4"	3	MT3098602	89.68	63.95
#8	36	1/8"	1/4"	3	MT3098601	91.67	65.95
#10	24	3/16"	0.312"	3	MT3098603	125.58	88.95
#10	32	3/16"	0.312"	3	MT3098604	125.58	92.95
1/4"	20	3/16"	1/2"	3	MT3098605	132.82	97.95
1/4"	28	3/16"	1/2"	3	MT3098606	132.82	97.95
5/16"	18	1/4"	5/8"	3	MT3098607	162.68	119.95
5/16"	24	1/4"	5/8"	3	MT3098608	162.68	119.95
3/8"	16	5/16"	3/4"	4	MT3098609	207.91	152.95
3/8"	24	5/16"	3/4"	4	MT3098610	207.91	152.95
7/16"	14	3/8"	7/8"	4	MT3098611	246.54	172.95
7/16"	20	3/8"	7/8"	4	MT3098612	246.54	181.95
1/2"	13	3/8"	7/8"	4	MT3098613	248.58	182.95
1/2"	20	3/8"	7/8"	4	MT3098614	248.58	182.95
9/16"	12	1/2"	7/8"	4	MT3098615	270.99	200.95
9/16"	18	1/2"	7/8"	4	MT3098616	272.57	200.95
5/8"	11	1/2"	1-1/4"	5	MT3098617	290.30	213.95
5/8"	18	1/2"	1-1/4"	5	MT3098618	284.24	213.95
3/4"	10	1/2"	1-1/4"	5	MT3098619	325.37	238.95
3/4"	16	1/2"	1-1/4"	5	MT3098620	323.79	238.95
7/8"	9	5/8"	1-1/4"	5	MT3098621	439.39	307.95
7/8"	14	5/8"	1-1/4"	5	MT3098622	439.39	322.95
1"	8	3/4"	1-3/8"	5	MT3098623	488.35	341.95
1"	12	3/4"	1-3/8"	5	MT3098624	488.65	341.95

10382



HASSAY-SAVAGE Rotary Broach Holders

Accepts Internal Hex Rotary/ Punch Broaches

Applications: For use on any type of CNC or manual turning, milling, drilling or screw machine.

Features:

- The holder has an internal live spindle, which holds the end cutting broach tool
- The centerline of the cutting tool is offset at 1° from the centerline of the workpiece
- This offset causes the broach to wobble creating a shearing effect as the broach is advanced into the workpiece or vice versa.



0.500"						
Connection Diameter Machine Side (DCONMS)	Holding Length	Hole Depth	Overall Length (OAL)	Order No.	Regular Price	SALE
1"	2"	0.742"	4-17/32"	FB55P67064	1791.12	1600.95
3/4"	2"	0.742"	4-17/32"	FB55P67048	1742.66	1572.95

0.750"						
Connection Diameter Machine Side (DCONMS)	Holding Length	Hole Depth	Overall Length (OAL)	Order No.	Regular Price	SALE
1-1/2"	3"	1.25"	7-9/16"	FB55P67072HDS	3464.30	3127.95
1-3/4"	3"	1.25"	7-9/16"	FB55P67076HD	3464.30	3127.95

0.315"						
Connection Diameter Machine Side (DCONMS)	Holding Length	Hole Depth	Overall Length (OAL)	Order No.	Regular Price	SALE
3/4"	2"	9/16"	3-59/64"	FB55P67048S	1606.49	1453.95
5/8"	1-1/2"	9/16"	3-27/64"	FB55P67040	1646.68	1408.95

9757



HASSAY-SAVAGE Internal Hex Rotary/ Punch Broaches

Also Referred To As "Wobble," "Blind Hole" & Rotary Broaches

- Shank size -1/2"
- For use with screw machines, CNC turning machines and arbor presses
- For use in automotive, aerospace, medical and other various fields
- All tools are manufactured in M-2 high speed steel
- Other sizes, metric, square, Torx® octagon & spline forms available, please call



Size	Cutting Depth	Overall Length (OAL)	Order No.	Regular Price	SALE
3/32"	9/64	1-3/4"	FB5566106	80.55	71.95
1/8"	3/16	1-3/4"	FB5566108	80.55	71.95
9/64"	7/32	1-3/4"	FB5566109	80.55	71.95
5/32"	1/4	1-3/4"	FB5566110	80.55	71.95
3/16"	9/32	1-3/4"	FB5566112	80.55	71.95
7/32"	9/32	1-3/4"	FB5566114	80.55	71.95
1/4"	3/8	1-3/4"	FB5566116	80.55	71.95
5/16"	1/2	1-3/4"	FB5566120	80.55	71.95
11/32"	9/16	1-3/4"	FB5566122	80.55	71.95
3/8"	9/16	1-3/4"	FB5566124	80.55	71.95
7/16"	5/8	1-3/4"	FB5566128	107.17	95.95
1/2"	5/8	1-3/4"	FB5566132	107.17	95.95
9/16"	5/8	1-3/4"	FB5566136	110.26	98.95
5/8"	3/4	1-3/4"	FB5566140	112.89	100.95
11/16"	3/4	1-3/4"	FB5566144	115.67	103.95
3/4"	7/8	1-3/4"	FB5566148	118.71	106.95

23295

PRM PRO Heavy Duty Lever Grease Gun

- Heavy duty lever type model with 3 way loading
- Cast head incorporates bulk loader and air bleeder valve
- Capacity 14 oz develops up to 9000 PSI
- Comes with steel extension and 4 jaw coupler



Order No.	Regular Price	SALE
LC725028	30.98	13.95

8515

Accu-Lube Lubricants and Paste

Accu-Lube LB-2000

- Medium to heavy duty machining
- For use in general machinery, drilling and tapping small diameter holes
- High performance natural base oil
- Environmentally friendly and worker safe
- Good for all metals

Accu-Lube LB-3000

- Medium duty machining; sawing, solids and tubing drilling and tapping small holes, stamping, rolling
- Economical high performance natural base cutting oil
- Environmentally friendly and worker safe
- Must be cleaned off prior to post heat treating
- Good for all metals

Accu-Lube Paste

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

Accu-Lube Stick Lubricants

- Reduce heat build-up in belt, disc or wheel grinding operations
- Apply the ready-to-use stick to the tool before start-up
- Environmentally safe and biodegradable



LK6079030



LK6079042



LK6079045

Container Size	Order No.	Regular Price	SALE
2.2 oz	LK6079042	8.00	6.95
8 oz	LK6079030	16.92	14.95
13 oz	LK6079045	22.95	20.95
1 gallon	LK60LB2000	155.95	111.95
1 gallon	LK60LB3000	77.85	69.95

22633

Blast PB B'laster

- Breaks free rusted joints and frozen parts by removing surface tension
- Powerful penetrating catalyst
- Non-evaporating lubricant
- Protects against further rust and corrosion



Container Size	Order No.	Regular Price	SALE
16 oz	LR7116PB	10.90	9.95
1 gallon	LR71128PB	71.65	63.95

8165

LPS 2® Industrial Strength Lubricant

- A nondrying, light, oily film
- Reduces wear
- Displaces moisture
- Loosens rusted or frozen parts
- Up to one year of protection
- Safe on paint and most plastics
- Spray at any angle
- NSF® H2 registered



LJ6002128



LJ6000216

Container Size	Order No.	Regular Price	SALE
11 oz	LJ6000216	17.49	13.95
1 gallon	LJ6002128	72.90	57.95

8363

JET-LUBE Premium EP Greases

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



LM6533050



LM6531050

Series	Order No.	Regular Price	SALE
AP-5	LM6525050	18.59	14.95
CB-2	LM6531050	14.64	12.50
AP-1	LM6531550	12.74	10.95
Moly	LM6533050	17.21	13.95
Marine	LM6563050	14.19	11.95

8335

CRC Greases

Extreme Pressure Moly-Graph Multi-Purpose Grease:

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



Extreme Pressure Sta-Plex Premium Red Grease:

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

LR50SL3310

LR50SL3330

LR50SL3190

Lithium General Purpose Grease:

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

Type	Container Size	Order No.	Regular Price	SALE
Extreme Pressure	14 oz	LR50SL3190	14.75	11.95
Multi Purpose	14 oz	LR50SL3310	8.11	6.95
Extreme Pressure	14 oz	LR50SL3330	10.38	8.95

8176

WD-40 Lubricant

- WD-40 will not oxidize and cause delicate machining to gum up as will normal lubricants. It keeps lubricating quality at all temperatures, even in cold weather
- Penetrates and displaces moisture



LS5149002



LS5149011

Container Size	Application	Order No.	Regular Price	SALE
8 oz	With Smart Straw	LS5149002	10.75	9.95
11 oz	With Smart Straw	LS5149004	13.71	11.95
12 oz	With Smart Straw	LS5149005	14.53	12.95
16 oz	-	LS5149008	14.16	12.95
1 gallon	-	LS5149011	53.11	47.95

25376

12" Oil Skimmer

- Removes floating tramp oils
- Removes up to 1-1/2 gallons of oil per hour
- Flexible wiper blades
- Shipping weight 9 lbs
- Disks & wipers are guaranteed for life



Order No.	Regular Price	SALE
NY40LH300	254.00	247.95

25589

PRM *PRO* Steel Barrel Pump - Lever Type

- Heavy steel pump body with ribbed section pump head
- Fits 15 to 55 gallon drums with built in 1-1/2" and 2" bung opening
- Includes curved discharge metal pipe and telescoping steel tube assembly
- Recommended for use with oil based fluids, heating oils, motor oils, heavy & light oils, diesel & kerosene
- Pump not suited for use with water



Order No.	Regular Price	SALE
LC727765	64.64	29.95

5483

Markal Valve Action® Liquid Paint Marker

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



Color	Order No.	Regular Price	SALE
White	LH5296820	3.23	2.64
Yellow	LH5296821	3.23	2.64
Red	LH5296822	3.23	2.64
Black	LH5296823	3.23	2.64
Orange	LH5296824	3.23	2.64
Blue	LH5296825	3.23	2.64
Green	LH5296826	3.23	2.64

23817

CROWN *ARROW* Off-Line Contact Cleaner

- Contains no CFC's or chlorinated solvents
- Evaporates quickly and leaves no residue
- Safe on most plastics
- Flammable
- Fast evaporating, low odor



Size	Order No.	Regular Price	SALE
10 oz	LP508276	8.73	6.95

8229

Spray Adhesive

- Bonds to most surfaces
- Coverage dependent upon application



GR3211502

GR3246502

Container Size	Container Type	Order No.	Regular Price	SALE
4 oz	spray can	GR3246502	7.20	5.35
14 oz	spray can	GR3211502	17.30	12.95

29432

LOCTITE 262 Permanent Threadlocker

- A permanent locking threadlocker for fasteners up to 3/4" in diameter
- High lubrication value for easy assembly
- Excellent for preventing rust and corrosion in extreme chemical/environmental conditions
- Works in temperature ranges from -65° to 300°F
- Loctite 262 has a fixture cure rate of 20 minutes and a full cure rate of 24 hrs



LM5026231



LM5026221

Container Size	Order No.	Regular Price	SALE
10 ml	LM5026221	22.90	14.95
50 ml	LM5026231	63.69	41.95

23726

DYKEM Hi-Spot Blue

- Used for locating high spots on bearing and gear surfaces
- Non-drying and non-hardening
- Transfers clearly from one surface to another
- Save valuable time and money in surface scraping work



Container Size	Order No.	Regular Price	SALE
55 oz	LL6083307	11.40	9.95

23341

DYKEM Layout Fluid (Steel Blue)

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



Container Size	Container Type	Order No.	Regular Price	SALE
2 oz	Felt Tip Applicator	LL6080200	10.25	8.95
4 oz	Brush in Cap Bottle	LL6080300	12.27	10.95
8 oz	Brush in Cap Bottle	LL6080400	16.96	14.95
12 oz	Aerosol Can	LL6080000	19.11	16.95
31 oz	Jug with Handle	LL6080600	30.33	26.95

23342

ABRASIVES



Reinforced Cut-Off Wheels

For Hand Held Grinders

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



Aluminum Oxide								
Diam-eter	Thick-ness	Arbor Hole	Specifica-tion	Maximum RPM	Stand-ard Pack	Order No.	Reg-ular Price	SALE
1 1/2"	1/32"	1/4"	A60-RBF	45000	50	MG9035687	1.88	1.40
1 1/2"	1/16"	1/4"	A60-RBF	45000	50	MG9035688	1.88	1.40
2"	1/32"	3/8"	A60-RBF	30000	50	MG9035689	1.88	1.40
2"	1/16"	1/4"	A36-TBF	30000	50	MG9045066	1.88	1.40
2"	1/16"	3/8"	A36-RBF	30000	50	MG9035690	1.88	1.40
2"	1/8"	3/8"	A24-RBF	30000	50	MG9035691	2.07	1.55
3"	1/32"	1/4"	A60-RBF	25000	50	MG9035500	1.88	1.50
3"	1/32"	3/8"	A60-RBF	25000	50	MG9035501	1.88	1.40
3"	1/16"	1/4"	A36-RBF	25000	50	MG9035502	1.91	1.45
3"	1/16"	1/4"	A60-RBF	25000	50	MG9045085	1.91	1.45
3"	1/16"	3/8"	A36-RBF	25000	50	MG9035503	1.91	1.45
3"	1/16"	3/8"	A60-RBF	25000	50	MG9045086	1.91	1.45
3"	1/8"	1/4"	A24-RBF	25000	50	MG9035504	2.14	1.60
3"	1/8"	3/8"	A24-RBF	25000	50	MG9035505	2.14	1.60
4"	1/32"	1/4"	A60-RBF	19100	50	MG9035506	2.43	1.85
4"	1/32"	3/8"	A60-RBF	19100	50	MG9035507	2.43	1.85
4"	1/16"	1/4"	A36-RBF	19100	50	MG9035508	2.64	2.00
4"	1/16"	1/4"	A60-RBF	19100	50	MG9045088	2.64	2.00
4"	1/16"	3/8"	A36-RBF	19100	50	MG9035509	2.64	2.00
4"	1/16"	3/8"	A60-RBF	19100	50	MG9045087	2.64	2.00
4"	1/16"	5/8"	A36-RBF	19100	50	MG9035510	2.64	2.00
4"	1/8"	1/4"	A24-RBF	19100	50	MG9035511	3.01	2.25
4"	1/8"	3/8"	A24-RBF	19100	50	MG9035512	3.01	2.25

Aluminum Oxide, Fast Cut								
Diam-eter	Thick-ness	Arbor Hole	Specifica-tion	Maximum RPM	Stand-ard Pack	Order No.	Regular Price	SALE
4"	1/32"	1/4"	A60-RBF	19100	50	MG9059106	1.12	0.90

236

3M 3M™ Silver Type 1 Cut Off Wheels

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



Diameter	Thick-ness	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
3"	.035"	1/4"	25,465	TM0187457	2.39	2.00
3"	.035"	3/8"	25,465	TM0187458	2.36	1.95
3"	.060"	3/8"	25,465	TM0187459	2.70	2.25
4"	.035"	1/4"	19,100	TM0187460	2.56	2.15
4"	.035"	3/8"	19,100	TM0187461	2.56	2.15
4"	.060"	3/8"	19,100	TM0187462	3.01	2.50
4-1/2"	.040"	7/8"	13,300	TM0187464	3.25	2.70
4-1/2"	.045"	7/8"	13,300	TM0187465	3.25	2.70
4-1/2"	.045"	7/8"	13,300	TM0187466	3.25	2.70
5"	.045"	7/8"	12,250	TM0187467	3.43	2.85
5"	.045"	7/8"	12,250	TM0187468	3.45	2.85
6"	.045"	7/8"	10,200	TM0187469	5.38	4.45
6"	.045"	7/8"	10,200	TM0187470	5.96	4.95

147



Super Quickie Cut Reinforced Cut-Off Wheels

Type 1 & Type 27

#1 Wheel choice for steel applications.



							Type 1			Type 27		
Di-am-eter	Thick-ness	Arbor Hole	Maxi-mum RPM	Spec-ification	Stand-ard Pack		Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
4 1/2"	.045"	7/8"	13300	A60-TBF	50		MG9045102	3.16	2.35	MG9045103	3.08	2.35

22873



High Performance Cut-Off Wheels

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



Diameter	Thick-ness	Arbor Hole	Wheel Type	Order No.	Regular Price	SALE
3"	.040"	3/8"	Type 1	SP010304038HPA	1.24	0.90
3"	1/16"	3/8"	Type 1	SP010311638HPA	1.24	0.90
4 1/2"	.045"	7/8"	Type 1	SP014504578HPA	1.55	1.15
6"	.045"	7/8"	Type 1	SP010604578HPA	3.28	2.35

680



Small Diameter Cut-Off Wheels

Gemini:

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

Bluefire:

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



Gemini						
Diameter	Thickness	Arbor Hole	Order No.	Regular Price	SALE	
3"	0.035"	1/4"	MH60030010627	3.53	2.10	
3"	0.035"	3/8"	MH60030010628	3.53	2.10	
3"	1/16"	1/4"	MH60030010645	3.53	2.10	
3"	1/16"	3/8"	MH60030010647	3.48	2.10	
3"	1/16"	1/4"	MH60030010649	2.50	1.65	
4"	0.035"	1/4"	MH60040010629	4.85	2.89	
4"	0.035"	3/8"	MH60040010630	5.45	3.25	
4"	1/16"	1/4"	MH60040010654	4.78	2.85	
4"	1/16"	3/8"	MH60040010655	4.78	2.85	

Blue Fire						
Diameter	Thickness	Arbor Hole	Order No.	Regular Price	SALE	
3"	0.035"	3/8"	MH60030028629	16.50	9.95	
3"	0.035"	3/8"	MH60030043174	5.52	3.45	
3"	1/16"	3/8"	MH60030043175	5.59	3.55	
4"	1/16"	3/8"	MH60040043171	7.62	4.75	
4"	0.035"	3/8"	MH60040043173	7.62	4.75	

24139

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

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



Diameter	Arbor Hole	Thickness	Grit	Specification	Maximum RPM	Order No.	Regular Price	SALE
2"	1/8"	.060"	36	A36-T-BF	30,550	SP010200601136A	3.45	2.50
2"	1/8"	.060"	46	TA461-S-B11F	30,550	SP010200601146A	3.13	2.25
2"	1/8"	.060"	60	TA702-U-B15F	30,550	SP010200601160A	3.45	2.50
2"	1/4"	.060"	36	A36-T-BF	30,550	SP010200602136A	3.10	2.25
2"	1/4"	.060"	46	TA461-S-B11F	30,550	SP010200602146A	3.13	2.25
2"	1/4"	.060"	60	TA702-U-B15F	30,550	SP010200602160A	3.45	2.50
2"	3/8"	.060"	36	A36-T-BF	30,550	SP010200603136A	3.13	2.25
2"	3/8"	.060"	46	TA461-S-B11F	30,550	SP010200603146A	3.13	2.25
2"	3/8"	.060"	60	TA702-U-B15F	30,550	SP010200603160A	3.13	2.25
3"	1/4"	.060"	36	A36-T-BF	25,000	SP010300602136A	1.77	1.30
3"	1/4"	.060"	46	TA461-S-B11F	25,000	SP010300602146A	1.80	1.29
3"	1/4"	.060"	60	TA702-U-B15F	25,000	SP010300602160A	1.93	1.40
3"	3/8"	.060"	36	A36-T-BF	25,000	SP010300603136A	1.83	1.35
3"	3/8"	.060"	46	TA461-S-B11F	25,000	SP010300603146A	1.79	1.30
3"	3/8"	.060"	60	TA702-U-B15F	25,000	SP010300603160A	1.81	1.30
4"	3/8"	.060"	36	A36-R-BF	25,000	SP010400603136A	2.74	2.00
4"	3/8"	.060"	46	TA461-S-B11F	25,000	SP010400603146A	2.79	2.00
4"	3/8"	.060"	60	TA702-U-B15F	25,000	SP010400603160A	2.46	1.80

25172

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

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



Diameter	Thickness	Arbor Hole	Grit	Order No.	Regular Price	SALE
2"	1/8"	1/4"	24	SP010201252124A	3.26	2.34
2"	1/8"	1/4"	36	SP010201252136A	3.29	2.40
2"	1/8"	1/4"	46	SP010201252146A	5.03	3.65
2"	1/8"	3/8"	24	SP010201253124A	3.26	2.34
2"	1/8"	3/8"	36	SP010201253136A	3.29	2.40
2"	1/8"	3/8"	46	SP010201253146A	3.13	2.25
3"	1/8"	1/4"	24	SP010301252124A	2.23	1.60
3"	1/8"	1/4"	36	SP010301252136A	2.23	1.60
3"	1/8"	1/4"	46	SP010301252146A	2.19	1.60
3"	1/8"	3/8"	24	SP010301253124A	2.58	1.85
3"	1/8"	3/8"	36	SP010301253136A	2.23	1.60
3"	1/8"	3/8"	46	SP010301253146A	2.97	2.15
4"	1/8"	1/4"	24	SP010401252124A	3.13	2.25
4"	1/8"	1/4"	36	SP010401252136A	3.12	2.24
4"	1/8"	1/4"	46	SP010401252146A	3.39	2.45
4"	1/8"	3/8"	24	SP010401253124A	3.12	2.24
4"	1/8"	3/8"	36	SP010401253136A	3.12	2.24
4"	1/8"	3/8"	46	SP010401253146A	3.39	2.45

25161

MADE IN THE USA Flat Head Wheel Arbors

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



Arbor Hole	Max. Wheel Width	Shank Diameter	Overall Length	Order No.	Regular Price	SALE
1/2"	1/2"	1/4"	2 5/16"	MM54FHL30	8.58	5.95
1/2"	3/8"	1/4"	1 7/8"	MM54FHL25X	5.22	3.85
1/2"	7/8"	1/4"	2 5/16"	MM54FHL30X	5.56	4.10
1/4"	3/4"	3/16"	1 3/4"	MM54FHL8X	9.03	6.95
3/8"	3/8"	1/4"	1 5/8"	MM54FHL10X	5.15	3.60
5/8"	3/8"	1/4"	1 7/8"	MM54FHL50X	10.37	7.95

364

CGW Rubber Back-Up Pads

- Rubber back-up pads for use with coarse grits
- Spiral ribs provide contact points and form channels for air flow, extending disc life 30% to 50%
- Larger air holes provide cooler operating and longer abrasive disc life
- Pad size meets ANIS B186.1 standards
- Smooth face pads are excellent for general purpose applications



Air Cooled Spiral Pattern					
Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
4 1/2"	5/8"-11	Medium	MG9048220	41.69	31.95
5"	5/8"-11	Medium	MG9048221	42.61	32.95
7"	5/8"-11	Medium	MG9048222	56.55	42.95
9"	5/8"-11	Medium	MG9048239	65.22	49.95
7"	5/8"-11	Flexible	MG9049510	56.55	42.95
7"	5/8"-11	Rigid	MG9049511	56.55	42.95
4 1/2"	7/8	Medium	MG9049521	40.73	31.95

Air Cooled Smooth Face					
Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
7"	5/8"-11	Medium	MG9049506	40.15	31.95

Roll-On					
Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
2"	1/4"	Medium	MG9059732	11.51	8.95
3"	1/4"	Medium	MG9059734	13.12	9.95

Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
2"	1/4"	Medium	MG9059733	12.08	8.95
3"	1/4"	Medium	MG9059735	14.17	10.95

22870

SURF PRO Air Cooled Quick Change Holder Pads

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



Diameter	Disc Mount	Style	Maximum RPM	Order No.	Regular Price	SALE
1 1/2"	TR	Air Cooled Quick Change	30,000	SP24QCH15TR14SC	12.54	7.95
1 1/2"	TS	Air Cooled Quick Change	30,000	SP24QCH15TS14SC	12.54	7.95
2"	TR	Air Cooled Quick Change	30,000	SP24QCH20TR14SC	13.05	7.95
2"	TS	Air Cooled Quick Change	30,000	SP24QCH20TS14SC	13.05	7.95
3"	TR	Air Cooled Quick Change	20,000	SP24HK3TR14M58A	37.93	22.95
3"	TR	Air Cooled Quick Change	20,000	SP24QCH30TR14SC	14.76	8.95
4"	TR	Air Cooled Quick Change	15,000	SP24QCH40TR14SC	23.87	13.95
4"	TS	Air Cooled Quick Change	15,000	SP24QCH40TS14SC	23.87	13.95
3"	TS	Air Cooled Quick Change	20,000	SP24QCH30TS14SC	14.76	8.95

22031

3M Utility Cloth Shop Rolls 314D

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



		1"			1 1/2"			2"		
Grit	Length	Order No.	Reg. Price	SALE	Order No.	Reg. Price	SALE	Order No.	Reg. Price	SALE
80	50 yard	TM1219792	41.33	33.95	TM1219811	57.88	47.95	TM1219823	74.42	61.95
100	50 yard	-	-	-	-	-	-	TM1219822	70.96	58.95
120	50 yard	TM1219790	39.96	32.95	TM1219809	55.80	45.95	TM1219821	70.96	58.95
150	50 yard	TM1219789	39.96	32.95	TM1219808	55.80	45.95	TM1219820	70.96	58.95
180	50 yard	TM1219788	39.96	32.95	TM1219807	55.80	45.95	TM1219819	70.96	58.95
220	50 yard	TM1219787	39.96	32.95	TM1219806	55.80	45.95	TM1219818	70.96	58.95
240	50 yard	TM1219786	39.96	32.95	TM1219805	55.80	45.95	TM1219817	70.96	58.95
280	50 yard	TM1219785	39.96	32.95	-	-	-	-	-	-
400	50 yard	TM1219783	39.96	32.95	-	-	-	-	-	-

22615

ABRASIVES

SURF PRO Aluminum Oxide Shop

Rolls

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



1"			1 1/2"			2"		
Grit	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price
-	-	-	-	-	-	-	SP12SR20CRO	63.60
40	SP12SR10040A	18.63	14.95	SP12SR15040A	24.22	18.95	SP12SR20040A	34.92
50	SP12SR10050A	18.25	13.95	SP12SR15050A	26.12	19.95	SP12SR20050A	34.24
60	SP12SR10060A	17.67	13.95	SP12SR15060A	25.36	19.95	SP12SR20060A	33.22
80	SP12SR10080A	16.83	12.95	SP12SR15080A	24.16	18.95	SP12SR20080A	31.66
100	SP12SR10100A	16.37	12.95	SP12SR15100A	23.70	18.95	SP12SR20100A	30.68
120	SP12SR10120A	16.37	12.95	SP12SR15120A	23.70	18.95	SP12SR20120A	30.68
150	SP12SR10150A	16.40	12.95	SP12SR15150A	23.69	18.95	SP12SR20150A	30.68
180	SP12SR10180A	16.37	12.95	SP12SR15180A	23.69	18.95	SP12SR20180A	30.68
220	SP12SR10220A	16.40	12.95	SP12SR15220A	23.69	18.95	SP12SR20220A	30.68
240	SP12SR10240A	16.40	12.95	SP12SR15240A	23.69	18.95	SP12SR20240A	30.68
320	SP12SR10320A	16.40	12.95	SP12SR15320A	23.69	18.95	SP12SR20320A	30.68
400	SP12SR10400A	16.40	12.95	SP12SR15400A	23.66	18.95	SP12SR20400A	30.68

25149

3M Cubitron™ II Fibre Discs 982C

Dare To Wear It Out!

- With the 982C, you get a disc that cuts faster, lasts longer and requires less grinding pressure than conventional abrasives



Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	7/8"	36+	13300	TM1127400	6.39	5.10
4 1/2"	7/8"	36+	13300	TM1127425	6.82	5.45
4 1/2"	7/8"	60+	13300	TM1127631	5.67	4.50
4 1/2"	7/8"	80+	13300	TM1127635	5.33	4.25
4 1/2"	5/8"-11	60+	13300	TM1127639	6.07	4.85
4 1/2"	5/8"-11	80+	13300	TM1127642	5.68	4.50
5"	7/8"	36+	12000	TM1127401	6.39	5.10
5"	7/8"	60+	12000	TM1127632	5.67	4.50
5"	7/8"	80+	12000	TM1127636	5.33	4.25
5"	5/8"-11	60+	12000	TM1127640	6.07	4.85
5"	5/8"-11	36+	12000	TM1127404	6.82	5.45
5"	5/8"-11	80+	12000	TM1127643	5.68	4.50
7"	7/8"	36+	8600	TM1127402	7.36	5.95
7"	7/8"	60+	8600	TM1127633	6.53	5.20
7"	7/8"	80+	8600	TM1127637	6.15	4.90
7"	5/8"-11	36+	8600	TM1127405	7.86	5.95
7"	5/8"-11	60+	8600	TM1127641	6.98	5.95
7"	5/8"-11	80+	8600	TM1127644	6.58	5.25

22579

3M Roloc™ 2" Quick Change Fibre Discs - 361F

- Aluminum oxide - YR wt. cloth
- General purpose grinding, blending and finishing on all metals
- Roloc TR plastic button
- 50 Pc. standard pack sold in standard pack only



Grit	Maximum RPM	Order No.	Regular Price	SALE
36	25000	TM1122398	1.40	1.10
50	25000	TM1122399	1.34	1.05
60	20000	TM1122400	1.27	1.00
80	25000	TM1122401	1.19	0.95

Holder: MM59-64922

22599

3M Scotch-Brite™ Light Grinding & Blending Discs

- Durable non-woven 3M abrasive product used for light grinding and blending applications providing a Scotch-Brite™ burr-free finish.
- Grinding and blending can be done with one disc.
- Lasts longer, cuts and blends faster than any other Scotch-Brite disc available
- Roloc TR holders 2" MM59-64922, 3" MM59-64949

Diameter	Attachment Type	Grade	Maximum RPM	Pink			Blue			Maroon		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
2"	Hook & Loop	Coarse	25000	TM2160354	2.29	1.95	TM2160355	2.29	1.95	-	-	-
3"	TR	Coarse	18000	TM2160356	4.36	3.69	TM2160357	4.36	3.69	-	-	-
5"	Hook & Loop	Coarse	12000	TM2160336	7.30	5.95	TM2160341	7.30	5.95	-	-	-
5"	Hook & Loop	Coarse	12000	TM2160342	7.30	5.95	TM2160343	7.30	5.95	-	-	-
6"	Hook & Loop	Very Fine	4000	-	-	-	-	-	-	TM2100667	3.47	2.95
7"	Hook & Loop	Coarse	8600	TM2160347	12.51	10.95	TM2160344	12.51	10.95	-	-	-
7"	Hook & Loop	Coarse	8600	-	-	-	TM2160346	12.51	10.95	-	-	-

SUPERIOR Rigid Kut® Ceramic Quick Change Discs

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



Diameter - 2"						
Type S				Type R		
Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6447801	1.47	1.00	MM6447813	1.47	1.00
50	MM6447802	1.41	0.95	MM6447814	1.41	0.95
60	MM6447803	1.17	0.85	MM6447815	1.17	0.85
80	MM6447804	1.09	0.79	MM6447816	1.09	0.79
120	MM6447806	1.03	0.75	MM6447818	1.03	0.75

Diameter - 3"						
Type S				Type R		
Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6447807	1.78	1.30	MM6447819	1.78	1.30
50	MM6447808	1.79	1.25	MM6447820	1.79	1.25
60	MM6447809	1.68	1.20	MM6447821	1.68	1.20
80	MM6447810	1.62	1.15	MM6447822	1.62	1.15
120	MM6447812	1.53	1.05	MM6447824	1.53	1.05

Standard package - 2"=100 pack / 3"=50/pack2 Holder: Roll-On - MM59-64922 Turn-On - MM59-641983 Holder: Roll-On - MM59-64949 Turn-On - MM59-64113

CGW Metallurgical Silicon Carbide

Sanding Discs

- Pasco Metallurgical Silicon Carbide Sanding Discs



Plain Back					
Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
8"	60/60	25	MG9452931	0.86	0.70
8"	120/120	100	MG9452932	0.55	0.45
8"	180/180	100	MG9452933	0.66	0.55
8"	240/240	100	MG9452934	0.44	0.34
8"	320/400	100	MG9452935	0.44	0.34
8"	400/800	100	MG9452936	0.44	0.34
8"	600/1200	100	MG9452937	0.44	0.34
12"	60/60	100	MG9452938	1.91	1.50
12"	120/120	100	MG9452939	1.11	0.90
12"	180/180	100	MG9452940	0.98	0.80
12"	240/240	100	MG9452941	0.92	0.75
12"	320/400	100	MG9452942	0.92	0.75
12"	400/800	100	MG9452943	0.92	0.75
12"	600/1200	100	MG9452944	0.90	0.70

PSA					
Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
8"	60/P60	100	MG9452945	1.09	0.85
8"	120/P120	100	MG9452946	0.77	0.60
8"	180/P180	100	MG9452947	0.70	0.55
8"	240/P240	100	MG9452948	0.66	0.55
8"	320/P400	100	MG9452949	0.66	0.55
8"	400/P800	100	MG9452950	0.66	0.55
8"	600/P1200	100	MG9452951	0.66	0.55
12"	60/P60	100	MG9452952	2.41	1.90
12"	120/P120	100	MG9452953	2.39	1.90
12"	180/P180	100	MG9452954	1.43	1.15
12"	240/P240	100	MG9452955	1.45	1.14
12"	320/P400	100	MG9452956	1.33	1.05
12"	400/P800	100	MG9452957	1.33	1.05
12"	600/P1200	100	MG9452958	1.33	1.05

261

**Belts for Portable Sanders****Blaze Belts**

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

New Improved Y-Weight Polyester Cloth Back

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



Width	Length	Grit	Standard Pack	Order No.	Regular Price	SALE
1/2"	12"	40	200	MH61B0098018	3.68	2.25
1/2"	12"	60	200	MH61B0098019	3.53	2.15
1/2"	12"	80	200	MH61B0098020	3.39	2.10
1/2"	18"	40	200	MH61B0098021	3.92	2.40
1/2"	18"	60	200	MH61B0098022	3.73	2.25
1/2"	18"	80	200	MH61B0098023	3.58	2.20
1/2"	24"	40	200	MH61B0098024	4.32	2.65
1/2"	24"	60	200	MH61B0098025	4.02	2.50
1/2"	24"	80	200	MH61B0098026	3.73	2.25
3/4"	18"	40	200	MH61B0098027	4.39	2.70
3/4"	18"	60	200	MH61B0098028	4.10	2.50
3/4"	18"	80	200	MH61B0098029	3.85	2.35
3/4"	20-1/2"	40	200	MH61B0098030	4.49	2.75
3/4"	20-1/2"	60	200	MH61B0098031	4.32	2.65
3/4"	20-1/2"	80	200	MH61B0098032	4.05	2.50

10727

**Ceramic Resin Fibre Discs-XF870**

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

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



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4-1/2"	7/8"	24	VS10149133	4.35	2.95
4-1/2"	7/8"	36	VS10149134	4.23	2.85
4-1/2"	7/8"	50	VS10149135	3.82	2.75
4-1/2"	7/8"	60	VS10149136	3.66	2.95
4-1/2"	7/8"	100	VS10149131	3.11	2.55
4-1/2"	7/8"	120	VS10149132	5.06	4.25
7"	7/8"	24	VS10149148	5.92	5.00
7"	7/8"	36	VS10149149	5.75	4.55
7"	7/8"	50	VS10149151	5.38	3.80
7"	7/8"	60	VS10149152	5.13	4.35
7"	7/8"	100	VS10149146	4.85	3.95
7"	7/8"	120	VS10149147	4.85	3.95

30834

**Aluminum Oxide Cloth PSA Discs-No Hole Type**

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

Diameter	40			60			80			100			120			36		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
2"	SP11PSAD02040A	0.26	0.20	SP11PSAD02060A	0.27	0.20	SP11PSAD02080A	0.48	0.35	SP11PSAD02100A	0.19	0.15	SP11PSAD02120A	0.18	0.15	-	-	-
3"	SP11PSAD03040A	0.47	0.38	SP11PSAD03060A	0.47	0.38	SP11PSAD03080A	0.42	0.35	SP11PSAD03100A	0.37	0.30	SP11PSAD03120A	0.37	0.30	-	-	-
5"	SP11PSAD05040A	1.34	1.05	SP11PSAD05060A	1.13	0.90	SP11PSAD05080A	1.08	0.85	SP11PSAD05100A	1.02	0.80	SP11PSAD05120A	1.02	0.80	SP11PSAD05036A	1.47	1.15
6"	SP11PSAD06040A	1.86	1.50	SP11PSAD06060A	1.63	1.30	SP11PSAD06080A	1.52	1.20	SP11PSAD06100A	1.08	0.85	SP11PSAD06120A	1.37	1.05	SP11PSAD06036A	2.13	1.70
8"	SP11PSAD08040A	2.28	1.80	SP11PSAD08060A	2.86	2.25	SP11PSAD08080A	2.63	2.14	SP11PSAD08100A	1.97	1.55	SP11PSAD08120A	1.97	1.55	SP11PSAD08036A	3.83	3.05
9"	SP11PSAD09040A	4.02	3.20	SP11PSAD09060A	4.06	3.20	SP11PSAD09080A	3.49	2.75	SP11PSAD09100A	3.66	2.89	SP11PSAD09120A	3.66	2.89	SP11PSAD09036A	4.20	3.35
10"	SP11PSAD10040A	4.91	3.90	SP11PSAD10060A	5.28	3.60	SP11PSAD10080A	5.30	3.40	SP11PSAD10100A	4.15	3.30	SP11PSAD10120A	4.34	3.45	SP11PSAD10036A	5.12	4.05
12"	SP11PSAD12040A	6.57	5.45	SP11PSAD12060A	5.99	4.95	SP11PSAD12080A	6.02	4.80	SP11PSAD12100A	5.64	4.50	SP11PSAD12120A	5.64	4.50	SP11PSAD12036A	8.69	6.50
15"	SP11PSAD15040A	11.01	8.95	SP11PSAD15060A	9.67	7.95	SP11PSAD15080A	9.57	7.95	SP11PSAD15100A	9.28	6.95	-	-	-	SP11PSAD15036A	11.42	8.95
16"	SP11PSAD16040A	10.25	7.95	SP11PSAD16060A	9.12	6.95	SP11PSAD16080A	8.59	6.95	SP11PSAD16100A	7.70	5.95	SP11PSAD16120A	8.10	5.95	SP11PSAD16036A	13.41	9.95
20"	SP11PSAD20040A	16.42	11.95	SP11PSAD20060A	15.77	10.95	SP11PSAD20080A	14.79	10.95	SP11PSAD20100A	11.03	8.95	SP11PSAD20120A	11.03	8.95	SP11PSAD20036A	21.89	14.95
24"	SP11PSAD24040A	27.29	21.95	SP11PSAD24060A	26.48	20.95	SP11PSAD24080A	25.02	19.95	SP11PSAD24100A	23.14	17.95	SP11PSAD24120A	23.14	17.95	SP11PSAD24036A	31.22	24.95

25147

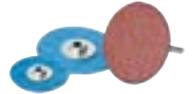
**Ceramic Alumina Cloth Discs****R980P**

- Next generation, Norton SG ceramic alumina grain with self lubricating, supersize treatment provides coolest cut; significantly faster cut rates
- Heaviest Y-wt. polyester cloth backing, for greatest durability, longest life, and edge-fray resistance on tough applications and stainless steel
- 3-ply heavy duty laminate discs (yellow backing) are ideal when durability and long life are required.



Order No.	Regular Price	SALE
MH61D0143379	1.81	1.14
MH61D0143380	1.62	0.99
MH61D0162307	1.62	0.99
MH61D0162308	1.62	0.99
MH61D0162309	1.52	0.91
MH61D0162310	1.52	0.91
MH61D0162311	1.52	0.91
MH61D0162312	1.52	0.91
MH61D0162313	1.52	0.91
MH61D0162314	1.52	0.91
MH61D0243382	2.31	1.45
MH61D0243383	2.31	1.45
MH61D0243384	2.31	1.45
MH61D0243386	2.31	1.45
MH61D0262317	2.43	1.50
MH61D0262318	2.43	1.50
MH61D0262319	2.38	1.45
MH61D0262320	2.38	1.45
MH61D0262321	2.20	1.35
MH61D0262322	2.20	1.35
MH61D0262323	2.20	1.35
MH61D0262324	2.20	1.35
MH61D0343389	2.87	1.80
MH61D0343390	2.87	1.80
MH61D0343391	2.91	1.85
MH61D0343392	2.91	1.85
MH61D0362327	3.14	1.90
MH61D0362328	3.14	1.90
MH61D0362329	2.95	1.79
MH61D0362330	2.95	1.79
MH61D0362331	2.77	1.70
MH61D0362332	2.77	1.70
MH61D0362333	2.77	1.70
MH61D0362334	2.77	1.70

24131

**Ceramic Grain Quick Change Abrasive Discs**

Diameter	Grit	Roll-On			Turn-On		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 1/2"	24	SP11QCR15024C	0.76	0.60	SP11QCT15024C	0.76	0.60
1 1/2"	36	SP11QCR15036C	0.68	0.55	SP11QCT15036C	0.73	0.60
1 1/2"	40	SP11QCR15040C	0.66	0.55	SP11QCT15040C	0.66	0.55
1 1/2"	50	SP11QCR15050C	0.63	0.49	SP11QCT15050C	0.63	0.49
1 1/2"	60	SP11QCR15060C	0.58	0.45	SP11QCT15060C	0.58	0.45
1 1/2"	80	SP11QCR15080C	0.55	0.45	SP11QCT15080C	0.55	0.45
1 1/2"	100	SP11QCR15100C	0.55	0.45	SP11QCT15100C	0.55	0.45
1 1/2"	120	SP11QCR15120C	0.55	0.45	SP11QCT15120C	0.55	0.45
2"	24	SP11QCR20024C	1.32	1.04	SP11QCT20024C	1.34	1.05
2"	36	SP11QCR20036C	1.24	1.00	SP11QCT20036C	1.15	0.90
2"	40	SP11QCR20040C	1.10	0.90	SP11QCT20040C	1.10	0.90
2"	50	SP11QCR20050C	1.08	0.85	SP11QCT20050C	1.08	0.85
2"	60	SP11QCR20060C	0.84	0.65	SP11QCT20060C	0.97	0.80
2"	80	SP11QCR20080C	0.90	0.70	SP11QCT20080C	0.90	0.70
2"	100	SP11QCR20100C	0.90	0.70	SP11QCT20100C	0.90	0.70
2"	120	SP11QCR20120C	0.95	0.70	SP11QCT20120C	0.90	0.70

25155



ABRASIVES

Flexible Diamond Hand Pads

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



Width	Length	Grit	Color	Order No.	Regular Price	SALE
2 1/8"	3 1/2"	400	Yellow	MH63HP05852	32.57	20.50
2 1/8"	3 1/2"	60	Green	MH63HP06360	61.82	39.95
2 1/8"	3 1/2"	120	Black	MH63HP06361	50.47	32.95
2 1/8"	3 1/2"	200	Red	MH63HP06362	41.30	27.50
2 1/8"	3 1/2"	800	White	MH63HP06363	32.57	20.50
2 1/8"	3 1/2"	1800	Blue	MH63HP06364	32.57	20.50

24138

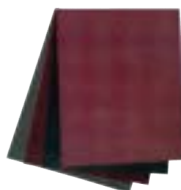
Abrasive Sheets - 9" x 11"

Aluminum Oxide Cloth Sheets - Metalworking

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

Silicon Carbide Waterproof Paper Sheets - Metalworking & Woodworking

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



Aluminum Oxide				
Grit	Sheets Per Package	Order No.	Regular Price	SALE
P60	25	MH61S91101861	2.68	1.65
P80	25	MH61S91126340	2.28	1.40
P100	50	MH61S91126339	2.13	1.30
P120	50	MH61S91126338	2.13	1.30
P150	50	MH61S91126337	2.13	1.30
P180	50	MH61S91126336	2.13	1.30
P240	50	MH61S91126334	2.13	1.30
P320	50	MH61S91126332	2.13	1.30

Silicon Carbide				
Grit	Sheets Per Package	Order No.	Regular Price	SALE
180	50	MH61S91101150	1.96	1.20
220	50	MH61S91139367	1.72	1.10
240	50	MH61S91139366	1.72	1.10
320	50	MH61S91139364	1.72	1.10
400	50	MH61S91139362	1.72	1.10
500	50	MH61S91139361	1.72	1.10
600	50	MH61S91139360	1.72	1.10

24112

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

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



Diameter	Arbor Hole	Width	Grit	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	7/8"	3/32"	36	13,300	MG9045218	2.82	2.10
4 1/2"	5/8"-11	3/32"	36	13,300	MG9045219	5.44	4.10
5"	7/8"	3/32"	36	12,250	MG9045220	3.42	2.60
5"	5/8"-11	3/32"	36	12,250	MG9045221	6.12	4.60
6"	7/8"	3/32"	36	10,200	MG9045222	5.02	3.80
6"	5/8"-11	3/32"	36	10,200	MG9045223	7.66	5.95

187

SURF PRO Zirconia Abrasive Belts

- Alumina zirconia grain provides added life over aluminum oxide cloth belts
- Premium material for superior performance in severe grinding applications on stainless steel, alloys and aluminum
- Full resin bond coating on Y weight - extra heavy duty cloth backing



Order No.	Regular Price	SALE
SP10B01042040Z	4.59	3.50
SP10B01042080Z	4.19	3.20
SP10B02040808Z	7.31	5.75
SP10B02048100Z	5.71	4.35
SP10B06048036Z	27.04	20.95
SP10B06048040Z	24.33	17.95
SP10B06048050Z	23.22	17.95
SP10B06048060Z	20.84	16.65
SP10B06048080Z	20.90	15.95
SP10B06048120Z	15.97	11.95
SP10B12018080Z	1.74	1.35
SP10B12024040Z	1.78	1.35
SP10B35205040Z	2.48	1.90
SP10B35205080Z	2.55	1.55

Special make belts available in a variety of materials, grits and sizes. Call with details for a quote.

25186

3M 6" x 9" Hand Pads

- Excellent products for hand finishing and cleaning of woods, metals and composites
- Ideal for wood finishing, paint prep and general cleaning
- Priced each / sold in standard pack of 20 only
- Save up to 10% on case qty. (60 pieces)



Color	Grade	Order No.	Regular Price	SALE
Light Gray	Ultra Fine	TM2204028	2.60	1.95
Maroon	Very Fine	TM2204029	1.73	1.40
Tan	Medium	TM2218451	169.63	145.95
Tan	Coarse	TM2265055	4.66	3.95
Gray	Medium	TM2265056	3.14	2.70

22601

UNITED ABRASIVES, INC. 4-1/2" Depressed Center Wheels - Type 27 - Aluminum Oxide

Use with Right Angle Air/Electric Grinders

A24 N Grade

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

A24 R Grade

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



				A24R			A24N		
Diameter	Width	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	1 1/4"	7/8"	13,300	MG4120063	3.57	3.10	MG4120060	6.31	3.10
4 1/2"	1 1/4"	5/8"-11	13,300	MG4120163	3.57	5.95	MG4120160	6.31	5.95

25344

CGW Polishing Compound

- Compound will not discolor metals
- White SS51 (1200 Grit) compound helps buff aluminum, steel, stainless and natural stone to the desired finish without adding scratches
- High gloss



Grit	Order No.	Regular Price	SALE
1200	MG9049652	11.85	8.95

230



Non-Woven Depressed Center & Quick Change Discs

- Heavy coating of ceramic alumina long-lasting grain and advanced resin bond
- Extremely versatile; use one disc for multiple operations
- Quick Change are TR mount (2" and 3") and TR+ (4")



Order No.	Regular Price	SALE
MH62RS0203912	11.26	6.90
MH62RS0396557	15.08	8.95
MH62RS0403783	31.22	19.95
MH62RS0403921	21.49	13.50
MH62RS0498101	31.00	19.95
MH62RS0503915	36.46	22.95
MH62RS0503916	37.18	23.50

24147



Single Point Diamond Dressing Tools

Features:

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



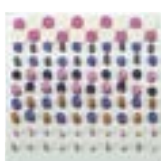
Model No	Shank Diameter	Shank Length	Maximum Compatible Wheel Diameter	Order No.	Regular Price	SALE
BC2M6	3/8"	2"	7"	MH63BC95000	81.64	51.95
BC2M7	7/16"	2"	7"	MH63BC95001	81.64	51.95
BC3M6	3/8"	2"	10"	MH63BC95002	90.74	57.95
BC3M7	7/16"	2"	10"	MH63BC95003	90.74	57.95
BC5M6	3/8"	2"	14"	MH63BC95004	108.08	67.95
BC5M7	7/16"	2"	14"	MH63BC95005	108.08	67.95

24162

Grier Mounted Point Kits

Tool Room Assortment

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



Spindle Diameter	Number of Pieces	Order No.	Regular Price	SALE
1/8"	100 Piece Assortment	ML50MP100	99.46	78.95
1/4"	50 Piece Assortment	ML50MP50	99.46	78.95

23264

TIGER 4-1/2" Tiger X Flap Discs, Type 29

Faster Grinding and Longer Life for Steel and Stainless Steel Metalworking



Diameter	Arbor Hole	Grit	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	7/8"	36	13,000	MK5151200	10.27	8.95
4 1/2"	7/8"	40	13,000	MK5151201	10.27	8.95
4 1/2"	7/8"	60	13,000	MK5151202	10.27	8.95
4 1/2"	7/8"	80	13,000	MK5151203	10.27	8.95
4 1/2"	5/8"-11	36	13,000	MK5151204	11.84	8.95
4 1/2"	5/8"-11	40	13,000	MK5151205	11.84	8.95
4 1/2"	5/8"-11	60	13,000	MK5151206	11.84	8.95
4 1/2"	5/8"-11	80	13,000	MK5151207	11.84	8.95
4 1/2"	7/8"	40	13,000	MK5151223	10.27	8.95
4 1/2"	7/8"	60	13,000	MK5151224	10.27	8.95
4 1/2"	7/8"	80	13,000	MK5151225	10.27	8.95
4 1/2"	5/8"-11	40	13,000	MK5151226	11.84	8.95
4 1/2"	5/8"-11	60	13,000	MK5151227	11.84	8.95
4 1/2"	5/8"-11	80	13,000	MK5151228	11.84	8.95

25435

SUPERIOR Surface Conditioning Quick Change Discs

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



Surface Conditioning				
Diameter	Grade	Order No.	Regular Price	SALE
1-1/2"	CRS	MM6410550	1.34	0.95
2"	CRS	MM6410544	1.75	1.20
2"	MED	MM6410554	1.68	1.20
2"	VFN	MM6410546	1.68	1.20
3"	CRS	MM6410547	3.16	2.10
3"	MED	MM6410548	2.99	2.05
3"	VFN	MM6410549	2.99	2.05

10738

2" Holder Roll-On MM59-64922 - Turn-On MM59-64198
3" Holder Roll-On MM59-64949 - Turn-On MM59-64113

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

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



		Type 29			Type 27		
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	13,300	SP11FD457A9036Z	3.49	2.85	SP11FD457A7036Z	3.49	2.85
40	13,300	SP11FD457A9040Z	3.49	2.85	SP11FD457A7040Z	3.49	2.85
60	13,300	SP11FD457A9060Z	3.49	2.85	SP11FD457A7060Z	3.49	2.85
80	13,300	SP11FD457A9080Z	3.49	2.85	SP11FD457A7080Z	3.49	2.85

22377

Also available in trimmable back and zirc plus.



Enduro-Flex Zirconia Alumina Type 29 Flap Discs

- Longest lasting flap disc on the market
- Highest overall material removal in the industry
- New Eco-Trim backing is easier to trim and environmentally friendly



Diameter	Grit	Arbor Hole	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
4 1/2"	40	5/8"-11	13,300	10	WS0106B454	13.67	11.95
4 1/2"	60	5/8"-11	13,300	10	WS0106B456	15.93	13.95
4 1/2"	80	5/8"-11	13,300	10	WS0106B458	13.67	11.95
4 1/2"	120	5/8"-11	13,300	10	WS0106B462	15.93	13.95
5"	40	5/8"-11	12,200	10	WS0106B504	20.84	17.95
5"	60	5/8"-11	12,200	10	WS0106B506	20.84	17.95
5"	80	5/8"-11	12,200	10	WS0106B508	20.84	17.95
5"	120	5/8"-11	12,200	10	WS0106B512	20.84	17.95
6"	40	5/8"-11	10,200	10	WS0106B604	25.73	21.95
6"	60	5/8"-11	10,200	10	WS0106B606	25.73	21.95
6"	80	5/8"-11	10,200	10	WS0106B608	25.73	21.95
6"	120	5/8"-11	10,200	10	WS0106B612	25.73	21.95

25382

WEILER 4-1/2" Zirconia Alumina Wol-verine Flap Discs

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



		Arbor Hole - 7/8"			Arbor Hole - 5/8"-11		
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	13,000	MK5131343	4.90	4.40	-	-	-
40	13,000	MK5131387	6.97	5.95	MK5131390	8.40	6.95
60	13,000	MK5131345	4.90	4.40	MK5131409	6.22	3.65
60	13,000	MK5131388	6.97	5.95	MK5131410	6.22	3.65
80	13,000	MK5131389	6.97	5.95	-	-	-

804



Coated Abrasive Mounted Flap Wheels

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



Diameter	Face Width	Grit	Order No.	Regular Price	SALE
1"	1"	120	MH50143120	5.15	3.85
1"	1"	60	MH5014360	5.15	3.85
1"	1"	80	MH5014380	5.15	3.04
1 1/2"	1"	120	MH50155120	6.36	4.80
1 1/2"	1"	60	MH5015560	6.36	4.80
1 1/2"	1"	80	MH5015580	6.36	4.80
2"	1"	120	MH50163120	7.56	5.95
2"	1"	60	MH5016360	7.52	5.50
2"	1"	80	MH5016380	7.52	5.50
2 1/2"	1"	120	MH50171120	10.63	7.95
2 1/2"	1"	60	MH5017160	10.44	7.95
2 1/2"	1"	80	MH5017180	10.44	7.95
3"	1"	120	MH50179120	12.25	8.95
3"	1"	60	MH5017960	11.60	8.95
3"	1"	80	MH5017980	11.60	8.95

22848

WELDING

PRM PRO Carbons

Pointed or Jointed

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



Pointed				
Diameter	Length	Order No.	Regular Price	SALE
3/16"	12"	WE1022033003	18.20	15.50
1/4"	12"	WE1022043003	21.59	18.50
5/16"	12"	WE1022053003	26.69	22.95
3/8"	12"	WE1022063003	33.97	28.95

Jointed				
Diameter	Length	Order No.	Regular Price	SALE
3/8"	17"	WE1024064003	219.09	187.95
1/2"	17"	WE1024084003	275.12	235.95

2950

PRM PRO 18 Series Tig Torch Package

- 350 Amp Water-cooled



Type	Length	Includes	Order No.	Regular Price	SALE
Torch Package	25'	Gas & Water Hose, Power Cable, Torch, Handle, Back Cap	WE101825R	239.17	204.95

2902

PRM PRO 26 Series Tig Torch Packages

- 200 Amp Air-cooled



Type	Length	Includes	Order No.	Regular Price	SALE
Flex Torch Package	25'	Power Cable, Torch, Handle, Back Cap	WE1026FV252	215.68	184.95
Flex Torch Package	25'	Power Cable, Torch, Handle, Back Cap	WE1026FV25R	201.77	172.95

2904

PRM PRO Air Cooled torches 150 & 125

- 17 and 9 Series Torches Air cooled torches
- Silicone Rubber
- 3 Styles to choose from
- Hose not included



150 Amp Air-cooled			
Type	Order No.	Regular Price	SALE
Flex Torch Body	WE1017F	45.62	38.95
Flex Torch Body	WE1017FV	47.93	40.95
Flex Torch Body	WE1017FVMT	113.07	96.95
Torch	WE1017V	38.77	32.95
125 Amp Air-cooled			
Type	Order No.	Regular Price	SALE
Flex Torch Body	WE109F	45.62	38.95
Flex Torch Body	WE109FV	77.50	65.95

2906

7018 Mild Steel Electrodes

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



Diameter	Length	Container Type	ManufacturerNo	Order No.	Regular Price	SALE
3/32"	14"	5 Lb Package	7018505	HR7120240	4.94	3.95
1/8"	14"	5 Lb Package	7018605	HR7120250	4.74	3.64
5/32"	12"	5 Lb Package	7018705	HR7120260	4.74	3.64
3/32"	12"	10 Lb Package	70185010	HR7120270	4.74	3.64

2656

6013 Mild Steel Electrodes

- General purpose electrode for mild steel which produces a smooth, quiet, medium penetrating arc that is readily maintained with minimal spatter loss
- This quick freezing slag gives optimum performance in vertical down welding
- Ideally suited for general purpose welding, even with small AC power sources having low open-circuit voltage
- Sold by the pound



Diameter	Container Type	ManufacturerNo	Order No.	Regular Price	SALE
5/32"	5 Lb Package	6013705	HR7120170	4.74	3.64
3/32"	10 Lb Package	60135010	HR7120180	4.74	3.64
1/8"	10 Lb Package	60136010	HR7120190	4.33	3.40

2653

HMD Medium Duty Acetylene Outfit

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



Includes	ManufacturerNo	Order No.	Regular Price	SALE
Goggles, Striker, 20' x 1/4" Hose, Insulated Tool Bag	4400366	HR7010120	421.97	345.95

2655

Alloy 5356 (MIG)

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



Wire Size	Container Size	ManufacturerNo	Order No.	Regular Price	SALE
0.0300"	1 lbs.	05356E1	HR7120430	19.47	14.45
0.0350"	1 lbs.	05356F1	HR7120440	13.91	10.95
0.0350"	16 lbs.	05356F6	HR7120450	12.46	10.45
3/64"	1 lbs.	535621	HR7120460	13.39	10.95
3/64"	16 lbs.	535627	HR7120470	11.64	9.45

Price Per Pound

2659

LINCOLN ELECTRIC ADF Helmet with Grind

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



LE01K34451

LE01K34191

View Height	View Width	Color	Order No.	Regular Price	SALE
1-3/4"	3.82"	Black	LE01K34191	126.43	116.95
1-3/4"	3.82"	Camo	LE01K34451	85.98	79.95

28750

LINCOLN ELECTRIC ADF Helmet 600S

- Cool Bloodshot Eye design
- Absorbent, oversized sweatband
- Solar powered to eliminate the need for batteries
- ANSI XZ87.1, CSA Z94.3 and CE EN379 compliant
- Polycarbonate construction



Type	Lens Type	View Width	View Height	Color	Order No.	Regular Price	SALE
Auto Darkening Helmet	Variable/Auto Darkening	3.82"	1-3/4"	Red/Gray	LE01K31901	118.01	108.95

28749

LINCOLN ELECTRIC Leather Welding Gloves

- Help prevent injury from hot metals, sparks and grindings
- Leather construction with gauntlet for heat and chemical resistance
- Fabric lined for comfort while welding and cutting
- Winged thumb for greater flexibility



Color	Material	Order No.	Regular Price	SALE
Black/Red	Leather	LE01KH643	15.68	14.95

29094

Protective Welding Sleeves

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



RT5810345



RT5813118

Length	Material	Color	Order No.	Regular Price	SALE
18"	Cotton	Green	RT5810345	10.51	7.95
18"	Fibers	Black	RT5813118	76.94	60.95

30751

TITAN Welding Helmets

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



Order No.	Regular Price	SALE
KP8241279	175.60	130.95

25291

TITAN Solar Powered Auto Darkening Welding Helmet

- Projects against UV and infrared radiation in variable shades from DIN 9 to DIN 13
- Lens automatically darkens when an arc is struck and returns to normal when welding stops
- Powered by solar cells with battery back-up
- Switching time: .000033 seconds light to dark
- Viewing area: 3.86 x 1.70"
- 1 Year warranty against mfg. defect



KP8241266



KP8241265

Helmet Graphics	Order No.	Regular Price	SALE
Eagle/Flag	KP8241265	175.60	130.95
Flames	KP8241266	175.60	130.95

28646

MCR SAFETY 4600 Blue Beast® Welder's

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



Size	Order No.	Regular Price	SALE
X-Large	KB514600XL	21.16	14.95
2X-Large	KB514600XXL	25.39	17.95

30708

superorglove Endura® Stick/Arc welding gloves

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



Size	Material	ManufacturerNo	Order No.	Regular Price	SALE
Large	Leather	505BU	SG0254180	14.94	13.95

30812

POWER TOOLS

DEWALT 6" Bench Grinder

Features:

- Rugged cast iron base and motor housing
- Precision machined aluminum tool rests
- 36 and 60 grit wheels
- Eye shields
- Spark deflectors, and wrench

Machine Specs:

- Motor: 5/8HP
- RPM: 3,450
- Wheel Size: 6 x 3/4 x 1/2"
- Weight: 29 lbs
- 1 Year Warranty



Order No.	Regular Price	SALE
PD20DW756	152.26	132.95

F.O.B. Warren, MI

5766

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

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



Order No.	Regular Price	SALE
PD20DWE402N	137.75	120.95

22349

Starrett Univerz® Portable Bands

With Starrett Bi-Metal Unique Technology

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



Teeth per Inch (TPI)	Length	Width (W)	Thickness (H)	Order No.	Regular Price	SALE
10	44-7/8"	1/2"	0.02"	FX83BM10	18.31	10.75
14	44-7/8"	1/2"	0.02"	FX83BM14	18.31	10.75
18	44-7/8"	1/2"	0.02"	FX83BM18	18.31	10.75
24	44-7/8"	1/2"	0.02"	FX83BM24	18.31	10.75
10/14 VT	44-7/8"	1/2"	0.02"	FX83BM1014	18.31	10.75
14/18 VT	44-7/8"	1/2"	0.02"	FX83BM1418	18.31	10.75

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

25065

28

DREMEL Full Line Of MultiPro Accessories Tungsten Carbide Cutters

1/8" Shank



Size	Order No.	Regular Price	SALE
1/8"	PH509901	11.86	9.95
3/32"	PH509902	11.88	9.95
1/8"	PH509903	11.86	9.95
3/32"	PH509904	11.88	9.95
1/8"	PH509905	11.86	9.95
1/8"	PH509906	11.88	9.95
1/8"	PH509909	11.88	9.95
1/8"	PH509910	11.88	9.95

2127



Industrial Air Interchange Couplers & Connectors

15 Series

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



FNPT, Interchange Coupler			
Thread Size	Order No.	Regular Price	SALE
1/4"	LX50150	9.26	6.95
3/8"	LX50151	11.64	9.95

MNPT, Interchange Coupler			
Thread Size	Order No.	Regular Price	SALE
1/4"	LX50152	6.63	5.95
3/8"	LX50155	11.97	9.95

23000



Air Hoses

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



Hose Inside Diameter	Length	End Connections	Order No.	Regular Price	SALE
1/4"	25 feet	MNPT	LX55HFZ1425YW2	27.53	22.95
1/4"	50 feet	MNPT	LX55HFZ1450YW2	40.74	34.95
1/4"	100 feet	MNPT	LX55HFZ14100YW2	90.21	62.95
3/8"	25 feet	MNPT	LX55HFZ3825YW2	36.46	28.95
3/8"	50 feet	MNPT	LX55HFZ3850YW2	61.34	51.95
3/8"	100 feet	MNPT	LX55HFZ38100YW2	132.59	92.95

2243

PRM PRO Air Die Grinders

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



Type	Features and Benefits	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Right Angle	Lever throttle for positive speed control, complete with collet wrenches	20,000	4 CFM	1/4" NPT	PJ60SM522	68.39	49.95
Straight	All ball bearing construction, lever throttle for positive speed control, complete with collet wrenches	22,000	4 CFM	1/4" NPT	PJ60DG1	40.38	28.95
Straight	Extended heavy duty spindle, lever type throttle	22,000	16 CFM	1/4" NPT	PJ60RG38A	132.25	84.95

22669

Chicago Pneumatic Air Powered Grinders

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



Type	Features and Benefits	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Economy Die Grinder	22,000 RPM, 1/4" and 6mm collet, lock-off throttle, speed and power, precision control and safety, excellent tool for general high speed polishing and grinding	22,000	13 CFM	1/4" NPT	PF-50CP872	160.82	125.95
Right Angle	Mini angle grinder compact, lightweight design, 90° angle head allows flexibility in confined areas	22,500	11 CFM	1/4" NPT	PF-50CP875	157.65	123.95

28772

PRM Precision Air 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)



Collet/Chuck	Maximum RPM	Order No.	Regular Price	SALE
1/8"	54,000	PJ65TG11A	111.90	49.95

22668

SHOX 1HP Str Die Grinder

- Lockoff lever and twist throttle. Front or rear exhaust. Built-in speed control.



Collet/Chuck	Horsepower	Maximum RPM	Exhaust Type	Air Inlet Size	Average Air Consumption	Manufacturer No	Order No.	Regular Price	SALE
1/4"	1hp	25,000	Front	1/4" NPT	30 CFM	SDG10S25F	ST3716620	402.42	291.95

30607

FLORIDA PNEUMATIC Air Powered Cut Off Tools

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



Features and Benefits	Exhaust Type	Maximum RPM	Average Air Consumption	Order No.	Regular Price	SALE
Straight handle design, ideal for hard to reach areas, large paddle switch	Front	20,000	4 CFM	PF52FP3751	96.14	74.95
Mini angle grinder, compact design, heavy-duty ball bearing construction and bevel gears	Rear	25,000	4 CFM	PF52FP759R	205.42	160.95

23209

SHOX Straight Die Grinders

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



Maximum RPM	Overall Length	Average Air Consumption	Collet/Chuck	Exhaust Type	Model No	Order No.	Regular Price	SALE
18,000	7-1/2"	30 CFM	1/4"	Rear	SDG10S18R	ST3716610	402.42	291.95
25,000	6"	25 CFM	1/4"	Front	SDG7S25F	ST3716730	409.12	295.95

24948

POWER TOOLS

DEWALT 20V Max Lithium Ion Grinder Tool Kit

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



Order No.	Regular Price	SALE
PD20DCG412P2	470.07	385.95

30961

DEWALT 20V MAX* XR® BRUSHLESS CORDLESS 3-SPEED OSCILLATING MULTI-TOOL

- The 3-speed selector allows users to choose their speed setting based on application
- Brushless motor delivers up to 57% more runtime over brushed
- Dual-Grip variable-speed trigger gives users ultimate speed and application control
- Universal accessory adapter for use with most oscillating tool accessory brands
- Quick-Change accessory system allows blades and attachments to be changed quickly without wrenches
- Bright LED illuminates dark work surfaces for accurate cutting
- Tool only.... battery and charger sold separately
- Includes: DCS356 20V MAX* XR® Brushless Cordless Oscillating Multi-Tool, Wood with Nails Blade, Fast-Cut Wood Blade, Universal Accessory Adaptor



Type	Model No	Order No.	Regular Price	SALE
Oscillating	DCS356B	PD20DCS356B	220.34	189.95

30740

DEWALT 20V MAX* CORDLESS BRUSHLESS XR® DRYWALL SCREWGUN & IMPACT DRIVER KIT (4.0AH)

- Built brushless motor in both units that delivers maximum run time
- XR® Li-Ion batteries with fuel gauge provide 33% more capacity over standard packs
- Impact driver has compact and lightweight designed to fit into tight areas
- Screwgun has up to 4,400 rpm provides greater speed, a better balanced and ergonomic than DW272 corded screwgun
- Impact driver has one-handed loading 1/4" hex chuck accepts 1" bit-tips
- Belt hook included on both units for portability as well as LEDs for increased visibility
- 3-speed settings on impact driver for optimized application versatility
- Precision drive in speed 1 for precision applications and added control
- Includes: DCF620 20V MAX* XR® Drywall Screwgun, DCF887 20V MAX* XR® 1/4" 3-Speed Impact Driver, (2) DCB204 20V MAX* XR 4.0AH Battery Pack, Charger, Contractor Bag, (2) Belt Clips



Type	Model No	Order No.	Regular Price	SALE
Screwgun & Impact Wrench Kit	DCK267M2	PD20DCK267M2	540.29	465.95

30739

DEWALT 20V Lithium Ion Impact Driver Kits

- Compact, lightweight design fits into tight areas
- 3 LED lights with 20-second delay after trigger release, provide visibility without shadows
- XR™ Li-Ion batteries with fuel gauge provides 33% more capacity over standard packs
- DCF887B DOES NOT INCLUDE BATTERY**
- Haz Code HAZ05



Model No	Drive	Voltage	Impacts per Minute	Maximum RPM	Order No.	Regular Price	SALE
DCF887M2	1/4"	20 V	3,600	0-1,000 / 2,800 / 3,250	PD20DCF887M2	429.66	376.95
DCF887B	1/4"	20 V	3,800	0-1,000 / 2,800 / 3,250	PD20DCF887B	200.70	166.95

2081

DEWALT FLEXVOLT® 60V MAX* BRUSHLESS 7-1/4 IN. CORDLESS CIRCULAR SAW WITH BRAKE KIT

- Up to 47% more power vs the DCS575**
- Uses a 7-1/4 in. circular saw blade and features a maximum cut depth of 2-9/16 in. at a 90° bevel
- Maximum bevel capacity of 57° with bevel stops at 22.5° and 45°
- Electric brake stops the blade after the trigger is released
- Integrated LED for increased visibility and cut accuracy
- Integrated rafter hook for quick and easy storage
- 2-batteries and charger included
- (1) DCS578 60V MAX* Brushless 7-1/2 in. Cordless Circular Saw, (1) Blade, (1) Blade Wrench, (1) Charger, (2) DCB609 FLEXVOLT® 9.0Ah Battery (1) Kit Bag



Model No	Order No.	Regular Price	SALE
DCS578X2	PD20DCS578X2	697.88	589.95

30742

DEWALT FLEXVOLT® 60V MAX* 7-1/4" BRUSHLESS CORDLESS RECIPROCATING SAW

- FASTER CUTTING:** Powerful brushless motor delivers 5,500 RPM for faster cutting... UP TO 77% MORE POWER** when paired with FLEXVOLT® batteries
- ELECTRIC BRAKE** stops the blade after the trigger is released
- INCREASED VISIBILITY:** Bright LED increases visibility and cut accuracy
- EASY STORAGE:** Integrated rafter hook for quick and easy storage
- Tool Connect™ Chip Ready:** Chip pocket accepts Tool Connect™ Chip DCE042 and connects with Tool Connect™ Site Manager app for easy asset management on the jobsite. (DCE042 sold separately)
- COMPATIBLE** with all DEWALT® 20V MAX* and FLEXVOLT® Batteries
- MINIMIZES DUST:** Optional dust port allows connection to a dust extractor to minimize dust during cutting (DWE575DC Dust Port sold separately)
- Tool only.....battery and charger sold separately
- Includes: (1) DCS573 20V MAX* 7-1/4 in. Brushless Cordless Circular Saw, (1) DWA171424 Saw Blade, (1) Blade Change Wrench



Model No	Order No.	Regular Price	SALE
DCS573B	PD20DCS573B	352.05	277.95

30743

DREMEL® High Performance Rotary Tool Kit**Model 4000-2/30**

- The Dremel 4000 variable speed rotary tool offers the highest performance and most versatility of all Dremel rotary tools-increased motor strength plus electronic feedback circuitry enables consistent performance at all speed levels
- Uses all existing Dremel accessories and attachments plus high performance attachments to complete the widest range of projects
- Slim, ergonomic body provides a 360° grip zone
- Circle cutter/straight edge guide
- Sanding/grinding guide
- Storage case
- Includes 30 genuine Dremel accessories
- Quick start book



Order No.	Regular Price	SALE
PH504000230	157.10	130.95

2109

**High Volume Blow Gun**

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



Order No.	Regular Price	SALE
LT51TYP2500CS	33.61	27.95

22997

5" Dynorbital-Spirit™ Non Vacuum Random Orbital Sander**Model 59020**

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

Specifications:

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



Disc Diameter	Type of Power	Air Inlet Size	Maximum RPM	Horsepower	Model No	Order No.	Regular Price	SALE
5"	Pneumatic	1/4" NPT	12,000	0.25 hp	59020	PF3359020	246.17	205.95

2180

LENOX® GOLD® POWER ARC CURVED EXTREME METAL CUTTING RECIPROCATING SAW BLADES

- POWER ARC CURVED BLADE** Delivers up to 2X longer life vs. traditional straight LENOX® recip blades
- AGGRESSIVE BLADE DESIGN** Optimizes the blade's angle of attack for faster cutting in a variety of materials
- EXTENDED BLADE LIFE T2™** Technology and precision applied titanium coating help dissipate heat making blades last longer
- FASTER CUTS** Titanium coating makes teeth more wear-resistant, so they stay sharp for quicker cuts



Length	Width (W)	Thickness (H)	Teeth per Inch (TPI)	ManufacturerNo	Order No.	Regular Price	SALE
9"	1"	0.042"	8	210969108GR	FX9021096	39.69	34.95
6"	1"	0.042"	10	210936110GR	FX9021093	31.67	27.95
9"	1"	0.042"	10	210979110GR	FX9021097	39.69	34.95
12"	1"	0.042"	10	2110012110GR	FX9021100	47.25	41.95
6"	1"	0.035"	14	210946114GR	FX9021094	31.67	27.95
9"	1"	0.035"	14	210989114GR	FX9021098	39.69	34.95
12"	1"	0.035"	14	2110112114GR	FX9021101	47.25	41.95
6"	1"	0.035"	18	210956118GR	FX9021095	31.67	27.95
9"	1"	0.035"	18	210999118GR	FX9021099	39.69	34.95
12"	1"	0.035"	18	2110212118GR	FX9021102	47.25	41.95

30816

LENOX® POWERBLAST METAL CUTTING RECIPROCATING SAW BLADES

- POWER BLAST TECHNOLOGY™ INCREASES BLADE LIFE**
High speed blasting along the cutting edge strengthens the blade to reduce breaks and increase durability

LONG BLADE LIFE & INCREASED VERSATILITY

Patented T2™ Technology reduces cutting forces on each tooth and optimizes chip removal to allow efficient cutting in the widest range of materials

ADVANCED METAL CUTTING TOOTHFORMS

Patented metal cutting TPIs provide faster and more efficient cutting in the widest variety of materials including Unistrut, angle iron, black pipe and more



Length	Width (W)	Thickness (H)	Teeth per Inch (TPI)	ManufacturerNo	Order No.	Regular Price	SALE
3-5/8"	-	0.035"	14	20520314RC	FX9020520	16.83	14.95
4"	3/4"	-	14	20550414R	FX9020550	13.94	11.95
6"	3/4"	-	14	20564614R	FX9020564	18.13	15.95
8"	3/4"	0.035"	14	21519814R	FX9021519	19.83	17.95
3"	1/4"	-	18	20521318RC	FX9020521	16.83	14.95
6"	3/4"	-	18	20566618R	FX9020566	18.13	15.95
4"	3/4"	-	18	20552418R	FX9020552	13.94	11.95
12"	3/4"	0.035"	18	21510118R	FX9021510	30.83	26.95
4"	3/4"	-	24	20554424R	FX9020554	13.94	11.95

30835

Mitutoyo QuantuMike Digital Outside Micrometers



- Resolution: .00005" / 0.001mm
- IP65 waterproof rated
- Quick acting spindle- 2X speed of standard spindle micrometers
- Ratchet thimble
- Carbide measuring
- Supplied with fitted plastic case and certificate of inspection

Measuring Range	Order No.	Regular Price	SALE
0-25.4 mm	MT80293-185-30	275.01	224.95
1"-2" / 25.4 mm-50.8 mm	MT80293-186-30	314.15	257.95
2"-3" / 50.8 mm-76.2 mm	MT80293-187-30	376.98	308.95

30920

Mitutoyo Coolant Proof Micrometers

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



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

Measuring Range	Thimble Type	Accuracy	Order No.	Regular Price	SALE
0"-1" / 0 mm-25.4 mm	Ratchet	±0.00005"	MT80293-340-30	267.80	211.95
1"-2" / 25.4 mm-50.8 mm	Ratchet	±0.00005"	MT80293-341-30	294.58	240.95
2"-3" / 50.8 mm-76.2 mm	Ratchet	±0.00005"	MT80293-342-30	368.74	301.95
3"-4" / 76.2 mm-101.6 mm	Ratchet	± 0.0001"	MT80293-343-30	440.84	359.95

4155

Mitutoyo Digimatic Micrometers

SERIES 293 MDC- Lite



- Carbide tipped measuring faces
- Uses (1) SR44 battery (included)
- Large LCD screen
- Resolution .00005" / 0.001mm
- No data output
- Supplied in fitted case
- Replacement battery order number is KA56357BP3

Minimum Measurement	Maximum Measurement	Thimble Type	Order No.	Regular Price	SALE
0"	1" / 25.4 mm	Ratchet	MT80293-330-30	291.49	252.95
1"	2"	Ratchet	MT80293-331-30	342.99	296.95
2" / 50.8 mm	3" / 76.2 mm	Ratchet	MT80293-332-30	424.36	366.95

4218

Mitutoyo Digimatic Calipers

Non-SPC Output with Absolute Encoder



- Zero-setting of the display position (incremental mode)
- Large LCD digits
- .0005" / 0.01mm Resolution
- Scale contamination detection function

Specifications:Function: ORIGIN Setting ZERO/ABS, ON/OFF - Inch/ Metric

Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	MT80500-196-30	189.52	153.95
0-8" / 0-200 mm	MT80500-197-30	272.95	223.95
0-12" / 0-300 mm	MT80500-193-30	543.43	450.95

4126

Mitutoyo Dial Calipers



- Smooth sliding
- Shock protection
- Lock screw on bezel
- White face
- 6" and 8" main beam coated with titanium nitride
- .001" Graduation
- .100" Range / revolution
- +/- .002" Accuracy

Measuring Range	Order No.	Regular Price	SALE
0-6"	MT80505-742J	153.47	125.95
0-8"	MT80505-743J	223.51	181.95
0-12"	MT80505-746	340.93	278.95

4113

Mitutoyo Quill Kit

Easy Installation Fits Most Vertical Knee Mills

- Easy to read LCD with resolution of .0005" / 0.01mm
- Push button controls for inch/mm, zero-set and on/off
- Powered by a single SR-44 battery which lasts about 1 year with normal use
- SPC output for data transmission to data processors or LED remote display box
- Digimatic quill kit complete with brackets & scale for Bridgeport type machines



Order No.	Regular Price	SALE
MT805053906	366.68	304.95

23950

Mitutoyo 1" Travel AGD 2 Dial Indicator

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



Order No.	Regular Price	SALE
MT802416S	144.20	117.95

4078

Mitutoyo IDS Digimatic Indicators**With Absolute Encoder**

- Measuring range: 0-5" / 0-12.7mm
- LCD Resolution: .0005" / 0.01mm
- Functions: origin, on/off, in/mm +/-
- Data output: SPC digimatic output
- Stem diameter: .375" -.0012"
- Contact point .16" (dia.) steel ball (4-48 UNF) No. 900032
- For SPC output order connecting cable MT80905338 (1m) or MT80905409 (2m)



Indicator Style	Order No.	Regular Price	SALE
Lug Back	MT80543-783	192.61	168.95
Flat Back	MT80543-783B	215.27	180.95

4152

Mitutoyo Stem Mount Dial Test Indicators

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



Graduation	Dial Reading	Order No.	Regular Price	SALE
0.001"	0-20-0	MT80513-518T	176.13	146.95

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

4224

Mitutoyo Pitch Gages

- Pitch size stamped on each gage



Pitch Range	Number of Leaves	Thread Angle	Order No.	Regular Price	SALE
4"-42"	30	60°	MT80188-111	38.93	31.95
4"-42"	51	60°	MT80188-151	66.23	48.95
0.40 mm-700 mm	18	-	MT80188-121	31.21	25.95
0.40 mm-700 mm	21	-	MT80188-122	51.91	41.95

4186

Mitutoyo Radius Gage Sets

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



Number of Pieces	Minimum Radius	Maximum Radius	Order No.	Regular Price	SALE
25	1/64"	1/2"	MT80186-901	196.73	160.95
26	0.010"	0.500"	MT80186-906	198.79	162.95

4205

Mitutoyo "Quik-Set" Test Indicators with Dovetail Mount

Set includes: (1).078" dia. carbide point installed, (1) stem - 3/8" dia. (8mm dia. for metric indicators) plus clamp with dovetail, holding bar and .039" and .118" steel ball contact point. Supplied with fitted plastic case.

- Jeweled bearings
- Automatic reverse



Dial Color	Range per Revolution	Graduation	Dial Reading	Order No.	Regular Price	SALE
White	0.008"	0.0001"	0-4-0	MT80513-403-10T	241.02	191.95
White	0.030"	0.0005"	0-15-0	MT80513-402-10T	187.46	148.95
White	0.030"	0.0005"	0-15-0	MT80513-412-10T	261.62	207.95
Yellow	0.2mm	0.002 mm	0-100-0	MT80513-405-10T	232.78	184.95

4202

Mitutoyo 6 Pc. Telescope Gage Set

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



Order No.	Regular Price	SALE
MT80155-903	248.23	203.95

4082

MEASURING TOOLS

Starrett 3202 Series Dial Calipers

- Graduation: .001", .100" per revolution (except 1202F-6)
- 1202F-6 has 1/64" graduations on the yellow outer scale, and .01" on the white inner scale
- Sharp, black graduations on the satin finished bar
- Thumb operated adjustment and lock screws
- Anti-backlash control
- Hardened stainless construction



Measuring Range	Model No	Order No.	Regular Price	SALE
0-12"	3202-12	MV7061466	328.57	281.95
0-6"	3202-6	MV7061467	156.56	133.95
0-8"	3202-8	MV7061468	223.51	191.95

5057

Starrett EC799 Electronic Caliper

- Resolution .0005" / 0.01mm
- Lightweight, ergonomic design
- Easy access to the single, long-life battery
- Last measuring position retained when shut off
- Hardened stainless steel body for long life
- Fine adjustment thumb wheel
- Lock screw to hold the slide in position
- Integrated depth rod
- Zero at any position



Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	MV7000142	213.21	182.95

5027

Starrett 436 Series Outside Micrometers

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



Minimum Measurement	Maximum Measurement	Thimble Type	Model No	Order No.	Regular Price	SALE
0"	1"	Ratchet	T4361XRL-1	MV7067997	199.82	170.95
1"	2"	Ratchet	T4361XRL-2	MV7068005	242.05	207.95
2"	3"	Ratchet	T4361XRL-3	MV7068013	304.88	260.95

5117

Fowler Electronic Calipers

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



Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	NA55541011501	56.57	53.95
0-8" / 0-200 mm	NA5554101200	102.31	93.95
0-12" / 0-300 mm	NA55541013001	129.23	115.95
0-6" / 0-150 mm	NA55541016001	75.62	72.95
0-12" / 0-300 mm	NA55541019001	165.55	159.95

3781

Fowler Shockproof Dial Calipers with Thumb Roll

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



Measuring Range	Order No.	Regular Price	SALE
0-6"	NA5552008706	109.40	78.95
0-6"	NA5552008707	109.08	85.95
0-8"	NA5552008708	123.37	101.95
0-12"	NA5552008712	170.53	147.95

3708

Fowler IP54 Depth Micrometer

Coolant, Water & Oil Resistant

- Range: 0-6"/0-150mm
- 4" Base: hardened tool steel, precision ground & microlapped
- Protected to IP54 standards
- Resolution:.00005"/0.001mm
- Direct RS232 output
- Automatic switch off
- Large LCD display



Order No.	Regular Price	SALE
NA5554225456	264.60	214.95

3648

PRECISION BRAND Blue Tempered Shim Stock

Branded® Shim from Precision Brand allows you to immediately identify your shim stock with precision accuracy.

- Thickness, width and tracking number clearly marked on shim
- Stock is high carbon 1095 hardened and tempered spring steel



Roll					
Width	Length	Thickness	Order No.	Regular Price	SALE
3"	50"	0.002"	MA5223110	49.66	41.95
3"	50"	0.003"	MA5223120	52.12	44.95
5"	50"	0.004"	MA5223130	56.28	45.95
6"	50"	0.005"	MA5223145	49.66	41.95
6"	50"	0.006"	MA5223155	49.46	41.95
6"	50"	0.007"	MA5223165	50.43	42.95

Sheet					
Width	Length	Thickness	Order No.	Regular Price	SALE
6"	25"	0.008"	MA5223170	58.92	47.95
6"	25"	0.010"	MA5223180	64.23	55.95
6"	25"	0.012"	MA5223200	66.24	56.95
6"	25"	0.015"	MA5223220	72.02	60.95
6"	25"	0.020"	MA5223240	83.81	72.95
6"	25"	0.025"	MA5223260	95.81	80.95
6"	25"	0.032"	MA5223280	106.17	83.95

24410

PROCHECK PREMIUM Stainless Steel Dial Calipers

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



Measuring Range	Graduation	Order No.	Regular Price	SALE
0-6"	0.001"	PC21CDC6	67.10	46.95
0-6"	0.001"	PC21CDC6B	67.10	46.95
0-6"	0.001"	PC21CDC6CJ	121.86	84.95
0-6"	0.001"	PC21CDC6EM	71.21	49.95
0-150 mm	0.02 mm	PC21CDC6M1	71.21	49.95
0-6"/0-150mm	0.001" / 0.02 mm	PC21CDC6M2	94.49	65.95
0-8"	0.001"	PC21CDC8	67.56	53.95
0-12"	0.001"	PC21CDC12	97.83	81.95

†PC21CDC6EM Metric on scale only

4812

PROCHECK Heavy Duty Electronic Long Range Calipers

- Resolution: .0005"/0.01mm
- Preset mode for outside and offset for inside jaws
- Inch / metric conversion and hold feature
- Data output port (USB/SPC kit optional)
- Supplied with storage case
- Replacement battery: KA56ECR2032
- 1 Year Warranty



Measuring Range	Inside Jaw Depth	Order No.	Regular Price	SALE
0-24" / 0-600 mm	4"	PC20EC246005HD	406.26	283.95
0-40" / 0-1000 mm	6"	PC20EC4010005HD	908.25	635.95

4620

PROCHECK Heavy Duty Dial Calipers

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



Measuring Range	Graduation	Inside Jaw Depth	Range Per Revolution	Dial Face Color	Order No.	Regular Price	SALE
18"	0.001"	3-1/8"	0.1"	White	PC21DC18HD	289.84	204.95
24"	0.001"	4"	0.1"	White	PC21DC24HD	318.17	238.95

4616

PROCHECK ABSOLUTE Absolute Electronic Calipers with Output

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



Measuring Range	Resolution	Inside Jaw Depth	Order No.	Regular Price	SALE
0-6" / 0-150 mm	0.0005" / 0.01mm	1-9/16"	PC20EC061505AB	95.84	66.95
0-12" / 0-300 mm	0.0005" / 0.01 mm	2-1/2"	PC20EC123005AB	177.71	123.95

4431

PROCHECK Dial Bore Gage Sets**.0005" Graduation**

- For close tolerance measurement of holes, taper and roundness
- Self-centering
- Gages are supplied with AGD group 2 dial indicator and fitted case



Order No.	Regular Price	SALE
NB45CBGB2	147.89	95.95
NB45CBGC2	151.17	97.95
NB45CBGD2	151.17	97.95
NB45CBGE2	149.46	96.95

4526

PROCHECK Economy Depth Micrometers

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



Measuring Range	Base Length	Order No.	Regular Price	SALE
0-4"	2 1/2"	NB60DM042	87.36	69.95
0-6"	4"	NB60DM064	82.02	71.95

28699

FAIRBANKS USB Digital Meter USB-A and USB-C

- 3 to 20V DC; Current: 0.05 to 3A (USB-A); 3 to 20V DC; Current: 0.05 to 5A (USB-C)
- Continuously monitor up to 1000 hours of voltage, current, capacity/charge delivered, energy, and resistance (calculated)
- Tests most common standard USB-A or USB-C ports, including Qualcomm Quick Charge® ports
- Store and recall up to 10 readings
- Voltage and current overload detection
- Hi-resolution LCD for clear visibility in environments with low ambient lighting
- Durable cables to allow easy access to hard-to-reach ports
- Rugged, pocket-sized, and light weight Klein industrial design stands up to jobsite demands
- Built to withstand a 6.6-Foot (2m) drop
- No batteries needed; powered by the USB port being tested



Model No	Order No.	Regular Price	SALE
ET920	KP6016020	49.42	41.95

30018

INSIZE Digital Outside Calipers

- Battery CR2032
- Data output
- Made of stainless steel
- Supplied with certification



Measuring Range	Resolution	Model No	Order No.	Regular Price	SALE
0-6" / 0-150 mm	0.0005" / 0.01 mm	1108-150	SZ201108150	71.79	62.95
0-8" / 0-200 mm	0.0005" / 0.01 mm	1108-200	SZ201108200	106.09	91.95
0-12" / 0-300 mm	0.0005" / 0.01 mm	1108-300	SZ201108300	159.65	137.95

3946

MEASURING TOOLS

STANLEY Torpedo Levels

- Top Reading Vials; 9" - 3 Vials (1 Plumb, 1 level, 1-45°)



Model No	Magnetic/Nonmagnetic	Material	Order No.	Regular Price	SALE
42-264	Magnetic Base	Plastic Frame	KP441540	8.17	5.95
42-465	Magnetic Base	Cast Aluminum Frame	KP443100	11.65	8.95

4927

STANLEY Standard Tape Measures

- Polymer coating for long life
- Corrosion resistant hook
- 1" Wide blades feature hook that moves to allow inside and outside measure
- Forward blade lock
- Hi-visibility yellow, high-impact plastic
- Blade returns automatically once blade lock is released
- 1" Wide blades have 7" standout



Model No	Blade Length	Blade Width	Graduation	Order No.	Regular Price	SALE
30-454	25'	1"	1/16", 1/8"	KP441510	13.43	9.95
30-455	25'	1"	1/16"	KP442200	13.43	9.95
30-464	30'	1"	1/16"	KP442205	15.86	11.95
30-456	26'	1"	1/32", 1/16", 1mm	KP442210	13.43	9.95
30-485	12'	1/2"	1/32", 1/16"	KP442215	7.37	5.50
30-495	16'	3/4"	1/32", 1/16"	KP442220	9.80	7.50
30-496	16'	3/4"	1/32", 1/16", 1mm	KP442225	9.80	7.50

4926

Lufkin Quickread Tapes

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



Blade Width	Blade Length	Order No.	Regular Price	SALE
3/4"	12'	MZ50PQR1312	19.41	13.95
3/4"	16'	MZ50PQR1316	22.39	15.95
1"	25'	MZ50PQR1425	29.86	21.95

4031

Fowler Mini-Mag Protractor

The mini-MAG Protractor provides instant 360° digital inclination display of any angle with the additional unique feature of embedded magnets on two sides.

- Embedded magnets with 35 lb. pull
- Measuring range: 360° (4 x 90°)
- Resolution: .05°
- Accuracy: ± .1°
- Repeatability: ± .1°
- Voltage: standard 9V battery (250 hrs.)



Order No.	Regular Price	SALE
NA55544224501	114.33	104.95

3682

Fowler Mini-Mag Plus Protractor

- IP54 protection against debris and fluids
- USB rechargeable battery with status light (cable included)
- Backlit display
- Tilt % function
- Auto-off after 5 minutes
- Embedded magnets on sides and bottom (3.5 lbs pull)
- Measuring range 360° (4 x 90)
- Display automatically inverts
- Resolution: 0.05°
- Accuracy: ±0.2°
- Repeatability: 0.05°
- Hold feature
- Zero function
- Smaller size (2.12 x 2.12 x 0.9")
- Light weight: 2.7 oz.
- Anodized alloy housing



Order No.	Regular Price	SALE
NA5554422500	144.67	108.95

3681

Starrett 300 Series Satin Chrome Finish Flexible Steel Rules

- Full flex (1/64th thick).
- All rules are machine divided and tempered for accuracy and long wear

Rule Graduation:

- 3R: 1/32, 1/64, 1/10 and 1/50ths
- 4R: 1/8, 1/16, 1/32 and 1/64ths
- 16R: 1/32, 1/64, 1/50 and 1/100ths

Length	Graduation Type	Width	Type	Order No.	Regular Price	SALE
6"	3R	1/2"	Flexible Rule	MV7051334	33.48	28.95
6"	16R	1/2"	Flexible Rule	MV7051374	36.05	30.95
6"	4R	1/2"	Flexible Rule	MV7066008	33.99	28.95

5110

PRO-CHECK 12" Combination Square Sets

Sets consist of:

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



Number of Pieces	Order No.	Regular Price	SALE
2	NB60CS122	29.17	25.95
3	NB60CS123	36.77	31.95
4	NB60CS124	67.10	56.95

4367

PROCHECK LED Lighted 10X Optical Comparator**- Multi Scale Lens**

- 8 LED ring illumination
- Multiple read reticule included*
- Knurled focus ring with cover
- Storage case included
- Supplied with (4) AG9 button type batteries

***Multi read reticule includes the following scales and templates:**

- 0-90° angle and 0.01 to 10mm radius
- 10mm-0-10mm center scale
- 1/2" by 1/10th and 1/8" by 1/64th scales
- 0.1 to 1.0mm, .005" to .050" and 1/64th to 1/16th diameter templates
- 29°, 55°, 60° and 118° included angle
- 1 Year Warranty



Order No.	Regular Price	SALE
PC22L10XLED	116.21	86.95

4664

PROCHECK Radius Gage Sets

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



Minimum Radius	Maximum Radius	Number of Pieces	Order No.	Regular Price	SALE
1/64"	1/2"	25	NB67L300CX	49.58	31.95
9/16"	1"	8	NB67L300E	135.42	87.95

4776

PROCHECK Feeler Thickness Gages

- Straight leaf thickness gage - 1/2" wide x 3" long
- Tapered leaf thickness gage - 3" long leaves taper from 1/2" to 1/4"



Number of Leaves	Tapered or Parallel	Thicknesses Included	Order No.	Regular Price	SALE
26	Parallel	0.0015" to 0.025"	NB45STG26	10.41	5.95
9	Parallel	0.0015" to 0.015"	NB45STG9	5.41	3.55
26	Tapered	0.0015" to 0.025"	NB45TTG26	9.52	5.95

4594

PROCHECK Mechanical Production Counters**Hand Tally Type:**

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

Machine Type:

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



Mounting Type	Number of Digits	Order No.	Regular Price	SALE
Hand	4	MB50251	10.00	7.95
Machine	5	MB50250	10.00	7.95

4702

PROCHECK Pee Dee Thread Measuring Wire Sets

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



BrandName	Order No.	Regular Price	SALE
Procheck	NB5316	18.82	11.95
Pee Dee	NG4916	49.44	41.95

4734

EMUGE FRANKEN Precision Fixed Limit Thread Gages - Double End, Go/No-Go

- UNF-2B, UNC-2B and Metric-6H Classifications
- Exceptionally hardened tool steel and highly accurate
- Stable thread starts for easy insertion
- Eliminate thread damage in demanding environments
- Short form Certificate of Accuracy is furnished free with each gage



Thread Size	Pitch	Order No.	Regular Price	SALE
M3x0.5	0.5	ER4501001000030	131.00	120.95
3/8"-16	16	ER4501001005011	99.68	92.95
7/16"-14	14	ER4501001005012	103.89	95.95
#10-32	32	ER4501001005041	98.38	90.95
1/4"-28	28	ER4501001005043	94.16	87.95
5/16"-24	24	ER4501001005044	97.84	90.95
3/8"-24	24	ER4501001005045	99.68	92.95
7/16"-20	20	ER4501001005046	103.89	95.95
1/2"-20	20	ER4501001005047	113.50	104.95
1/2"-13	13	ER4522160	113.50	104.95
5/16"-18	18	ER4501001005010	97.84	90.95
#10-24	24	ER4501001005007	98.38	90.95
#8-32	32	ER4501001005006	100.85	93.95
M4x0.7	0.7	ER4501001000040	114.95	105.95
M5x0.8	0.8	ER4501001000050	128.33	117.95
M6x0.1	0.1	ER4501001000060	106.93	98.95
M8x1.25	1.25	ER4501001000080	106.93	98.95
M10x1.5	1.5	ER4501001000100	86.22	79.95
M12x1.75	1.75	ER4501001000112	108.27	99.95
#2-56	56	ER4501001005001	136.96	125.95
#4-40	40	ER4501001005003	114.05	104.95
#6-32	32	ER4501001005005	104.99	96.95
1/4"-20	20	ER4522159	93.08	86.95

30924

MEASURING TOOLS



Dial Test Indicators

- Two way action - no reversing lever
- Carbide contact point
- Ball bearings and jeweled movement
- Extremely low measuring pressure
- Precise repetitive readings
- Points are interchangeable between .0005" and .001" indicators
- Contact point swivels 210°
- Shank diameter - 5/32"
- Diameter ball - .080"



Horizontal Inch regular model							
Graduation	Total Range	Contact Length	Dial Size	Model No	Order No.	Regular Price	SALE
0.0001"	.016"	11/16"	1-1/2"	312B-3	MV4041680	437.75	388.95
0.0001"	.016"	11/16"	1"	312B-4	MV4041681	450.11	392.95
0.001"	.060"	11/16"	1"	312B-20	MV4041682	365.65	326.95
0.0005"	.060"	11/16"	1-1/2"	312B-1	MV4042775	355.35	316.95
0.0005"	.060"	11/16"	1"	312B-2	MV4086150	355.35	316.95

Inch Perpendicular model							
Graduation	Total Range	Contact Length	Dial Size	Model No	Order No.	Regular Price	SALE
0.0005"	.060"	11/16"	1-1/2"	312B-1V	MV4041685	380.07	368.95
0.0005"	.060"	11/16"	1"	312B-2V	MV4041686	379.04	327.95

3964



Electronic Edge Finder

- Repeatability: .0002"
- Edge finder lights instantly when stylus touches work edge
- Read off any electrically conductive metal
- Furnished complete with bulb, AAA alkaline battery and protective sleeve
- Six lights provide better visibility at any angle



Order No.	Regular Price	SALE
NA5554575600	47.66	42.95

3628



25-441J AGD 2 Dial Indicator

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



Order No.	Regular Price	SALE
MV7053295	219.39	187.95

4937



Edge Finders

827 Series

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



Style	Shank	Tip Diameter	End Type	Order No.	Regular Price	SALE
Edge	3/8"	0.200"	Single End	MV7053062	39.14	33.95
Edge/Center	1/2"	0.200" x Point	Double End	MV7053063	46.87	39.95
Edge	10 mm	6 mm	Single End	MV7056041	40.17	33.95

5028



PREMIUM Procheck AGD Dial

Indicators - Certified

- Flat Back, 1/4" Lug Back and fitted case
- Adjustable Limit Pointers for easy Go / No-Go reading
- Revolution Counter
- Certificate of Inspection Included, Standard ASME B89.1.10M-2001
- 1 Year Warranty



Type	Indicator Style	Total Range	Dial Color	Dial Size	Graduation	Description	Order No.	Regular Price	SALE
Dial Indicator	AGD 2	1/2"	Black	2-1/4"	0.001"	Certified	PC21DI2121BC	39.67	29.95
Dial Indicator	AGD 2	1"	Black	2-1/4"	0.001"	Certified	PC21DI2011BC	39.67	29.95
Dial Indicator	AGD 2	1"	White	2-1/4"	0.001"	Certified	PC21DI2011WC	39.67	29.95
Dial Indicator	AGD 2	1"	White	2-1/4"	0.0005"	Certified	PC21DI2015WC	44.26	32.95
Dial Indicator	AGD 2	2"	Black	2-1/4"	0.001"	Certified	PC21DI2021BC	81.42	60.95
Dial Indicator	AGD 2	2"	White	2-1/4"	0.001"	Certified	PC21DI2021WC	81.42	60.95
Dial Indicator	AGD 2	1/2"	White	2-1/4"	0.001"	Certified	PC21DI2121WC	39.67	29.95

30766

PROCHECK Tri-Block Sets**Premium 1-2-3 Block Set:**

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

Economy Tri Blocks:

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



Economy Tri Block					
Overall Width	Overall Length	Overall Height	Order No.	Regular Price	SALE
1"	2"	3"	NM52E123	19.44	15.95
25 mm	50 mm	75 mm	NM52E25M	32.73	22.95
2"	4"	6"	NM52PR246	195.80	136.95

Tri Block Set					
Overall Width	Overall Length	Overall Height	Order No.	Regular Price	SALE
1"	2"	3"	NM52PR123	44.64	30.95

4371

PROCHECK 1/8" Steel Parallel Set**10 Pair Set**

- 1/8 x 1/2 to 1/8 x 1-5/8"
- Made of high grade alloy steel, hardened and ground from 1/8" stock
- Two holes in each parallel
- Accuracy: ± 0.0002 " parallelism in height
- ± 0.001 " to size in height



Order No.	Regular Price	SALE
NM55TPS11	96.24	62.95

4357

PROCHECK Magnetic Bases

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



Description	Order No.	Regular Price	SALE
Standard	PC21300	25.12	22.95
Fine Adjustment	PC21340	28.96	21.95

4569

Fowler Z-CHECK 54 Z-Axis Tool Setter**Features:**

- Supplied with zero reference setting block
- Easy to read super large display
- Back light turns on when zero reference is achieved
- IP65 protected for fluid and coolant resistance
- 5 magnets embedded into base
- 2" default setting height
- Steel contact surface with 0.0002" flatness
- Range: 0.12"/3mm
- Resolution: 0.00005"/0.001 mm
- Repeatability: 0.00015"/0.004mm
- Accuracy: 0.0001"/0.003mm
- Uses 1 3V CR2032 battery
- Includes case



Order No.	Regular Price	SALE
NA55541882000	127.50	118.95

29367

PROCHECK Dial Gage Holders with Power On/Off Magnetic Base

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



Bottom Arm Length	Top Arm Length	Pull Force	Style	Order No.	Regular Price	SALE
4.33"	3.98"	176 lbf	Standard	FN60DG10533	149.59	125.95
4.33"	3.98"	176 lbf	Standard	FN60DG61003	139.83	116.95
12.8"	9.50"	290 lbf	Super Long	FN60MA61003	286.15	239.95
5.26"	5.24"	176 lbf	Long	FN60MG10533	176.50	147.95
5.26"	5.24"	176 lbf	Long	FN60MG61003	175.59	146.95
6.43"	4.45"	180 lbf	Extra Long	FN60MG71003	195.11	163.95

4265

PROCHECK Magnetic Dial Indicator Base with Center Lock**Fine Adjustment:**

- Sealed system
- 3/8" stem, Lug back and dovetail mount
- One knob to release and position joints
- 130 lbs holding power
- V-groove base
- 1 Year Warranty



Description	Clamping Force	Order No.	Regular Price	SALE
With (1) Knob Center Lock, Fine adjustment	130 lbf	PC21MBCL130	80.06	63.95

22489

MEASURING TOOLS

PRO-CHECK Multi-Use V-Block and Clamp Set

- Stepped groove construction permits low or high clamping
- Holds square or round work
- Hardened steel
- All sides precision ground parallel and square
- Size: 2-1/2 x 2-3/4 x 2"
- Capacity: 2" round - 1-7/16" square



Order No.	Regular Price	SALE
NG52NVB7502	115.62	94.95

4375

Fowler X-BLOX V-Block Set

- 2 Each @:**
- Dimensions: 1-1/2"L x 1-1/4"W x 1-1/4"H
 - Work capacity: approximately 1"
- 2 Each @:**
- Dimensions: 2"L x 1-1/2" x 1-1/2"H
 - Work capacity: 1-1/2"
- All Feature:**
- Surfaces are square and parallel within .0005"
 - V-Grooves are square and parallel with all surfaces within .0005"
 - Corresponding dimensions for each pair are alike within .0005"
 - All enclosed in shop hardened case



Order No.	Regular Price	SALE
NA5552475500	144.98	127.45

3757

PRO-CHECK Universal Magnetic Base

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



Order No.	Regular Price	SALE
NL80TMBUM	68.61	50.95

4867

Starrett Magnetic Base Indicator Holder

- Large 1-15/16" x 1-5/8" x 1-7/8" base
- 3 Precision ground magnetic contact surfaces
- V-Step holds base to arbors, shafts, & chucks
- Push button on/off switch
- Extra 1/4-20 tapped hole in one side of base for mounting post



Order No.	Regular Price	SALE
MV7052743	279.13	238.95

5081

PRO-CHECK Precision Angle Block Set

- Furnished in 1" increments to 5" and in 5° increments to 30°
- Hardened and precision ground
- Accuracy ±.001" per inch
- Lightly magnetized for better holding
- Size 3" long x 1/4" thick
- Ten block set in fitted case



Order No.	Regular Price	SALE
NM51PAB10	74.07	59.95

4742

Starrett Little Giant Jack Screw Set S190 Model

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



Order No.	Regular Price	SALE
MV7050680	97.85	83.95

5071

Starrett® 91 Series Straight Tap Wrenches

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



Size	Right Hand Thread Length	Order No.	Regular Price	SALE
1/16" to 1/4"	6"	MV7050419	74.16	63.95
3/16" to 1/2"	9"	MV7050420	106.09	90.95
1/4" to 5/8"	12"	MV7050421	172.01	146.95
5/16" to 3/4"	16"	MV7050422	232.78	199.95

25070

Starrett® 93 Series T-Handle Tap Wrenches

- For holding taps, drills, reamers, and other small tools to be turned by hand
- Has a sliding handle which is frictionally held- this feature permits the handle to be removed entirely or positioned so that leverage can be applied when working in close quarters



Size	Right Hand Thread Length	Order No.	Regular Price	SALE
1/16" to 3/16"	2"	MV7050427	52.53	44.95
7/32" to 7/16"	2-1/2"	MV7050428	56.65	48.95
1/4" to 1/2"	3-1/2"	MV7050429	72.10	61.95

25071

Klein Tools® Pass-Thru™ Modular Data Plugs

- Klein exclusive Pass-Thru™ Connectors provide fast, reliable connector installations for data applications
- CAT6 Cable easily passes through connector to visually ensure that wires are in the correct order for consistent and secure terminations
- 50 µ-inch gold plating on all contact surfaces
- Meets or Exceeds all PoE and PoE+ requirements for performance
- Category 6 performance per EIA/TIA B.2. FCC compliant, UL rated, RoHS compliant
- For use with Klein Tools Pass-Thru™ Modular Crimper VDV226-110
- 8 position, 8 contact Pass Through style data plug for solid or stranded cable
- Max diameter for CAT6 Pass-Thru™ Connectors is 0.04-Inch



ManufacturerNo	Includes	Order No.	Regular Price	SALE
VDV826-763	200 Pieces	KP6014140	91.18	75.95
VDV826-703	50 Pieces	KP6014130	44.74	36.95

30015

Starrett® No. 18A Adjustable Automatic Center Punch

- All-steel handles and parts
- No hammer is required, automatically strikes a blow when downward pressure is applied
- Adjustable knurled cap regulates the force of the blow
- 9/16" Dia. x 5" long



Order No.	Regular Price	SALE
MV7050120	59.74	50.95

25045

Starrett® 8 Pc. Drive Pin Punch Set - S565WB

- 1/16 to 5/16 by 32nds
- Specially selected hardened tool steel
- Knurled finger grip
- Size is stamped on the head of each punch
- Plastic case



Number of Pieces	Diameter	Order No.	Regular Price	SALE
8	19/64"-29/64"	MV7052586	88.58	75.95

7789

BesTest® Dial Test Indicators

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



Dial Reading	Graduation	Dial Face Diameter	Order No.	Regular Price	SALE
0-15-0	0.001"	1.0"	MV4545977	313.12	278.95
0-15-0	0.0005"	1.0"	MV4545978	323.42	287.95
0-15-0	0.0005"	1 1/2"	MV4545979	335.78	298.95
0-4-0	0.0001"	1.0"	MV4545980	351.23	312.95
0-4-0	0.00005"	1 1/2"	MV4545981	405.82	361.95
0-15-0	0.001"	1.0"	MV4551732	253.38	225.95
0-15-0	0.0005"	1 1/2"	MV4551734	275.01	245.95
0-10-0	0.0005"	1.0"	MV4551735	309.00	274.95
0-10-0	0.0005"	1 1/2"	MV4551736	323.42	287.95
0-4-0	0.0001"	1.0"	MV4551737	327.54	285.95
0-4-0	0.00005"	1 1/2"	MV4551738	335.78	298.95

3354

HAND TOOLS

PRM PRO Torx® Long Arm L Key

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



Torx Size	Blade Length	Order No.	Regular Price	SALE
T6	3.15"	KN7010206	2.20	1.85
T7	3.15"	KN7010207	2.20	1.85
T8	3.15"	KN7010208	1.81	1.55
T10	3.4"	KN7010210	1.52	1.30
T15	3.5"	KN7010215	1.52	1.30
T20	3.7"	KN7010220	1.55	1.30
T25	4"	KN7010225	1.72	1.45

6955

PRM PRO Deadblow Hammers

- Non-marring, non-sparking
- Hot cast polyurethane construction
- Outlasts rawhide, rubber, lead and other plastic type heads by 10-20 times
- Shot filled canister provides dead blow action for sustained impact, maximum power and striking force

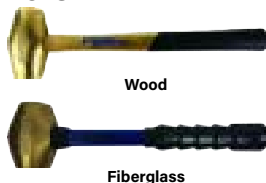


Head Weight	Head Diameter	Handle Length	Order No.	Regular Price	SALE
13 oz	1 1/4"	10"	KY4050013	35.84	30.95
21 oz	1 3/4"	11"	KY4050021	38.10	32.95
26 oz	2"	13"	KY4050026	41.93	35.95
45 oz	2 1/4"	14 1/2"	KY4050045	54.49	46.95
53 oz	2 3/4"	15"	KY4050053	76.20	64.95
5.5 lbs	2 3/4"	20"	KY4050088	104.22	88.95
9 lbs	2 3/4"	30"	KY4050144	144.83	123.95
10.5 lbs	3 1/4"	30"	KY4050168	198.41	169.95
12 lbs	3 1/4"	36"	KY4050192	225.21	192.95

6944

PRM PRO Brass Hammers

- Non-marring, soft brass
- Non-sparking
- Available in wood hickory or fiberglass handle
- Lifetime warranty against manufacturing defect



Head Weight	Head Diameter	Overall Length	Fiberglass			Wood		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 lbs	1"	12"	-	-	-	KY402001	39.77	33.95
1 1/2 lbs	1 1/4"	14"	-	-	-	KY402015	53.82	45.95
2 lbs	1 1/2"	14"	KY401002	73.41	62.95	KY402002	55.38	47.95
3 lbs	1 5/8"	14"	KY401003	90.20	76.95	KY402003	67.20	57.95
4 lbs	1 3/4"	14"	KY401004	110.23	94.95	KY402004	84.91	72.95
5 lbs	1 7/8"	14"	KY401005	122.57	104.95	KY402005	97.80	83.95
8 lbs	2 3/8"	36"	KY401008	189.08	161.95	KY402008	171.73	146.95
10 lbs	2 1/2"	36"	KY401010	226.82	194.95	-	-	-
12 lbs	2 1/2"	36"	-	-	-	KY402010	201.21	172.95

6941

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

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

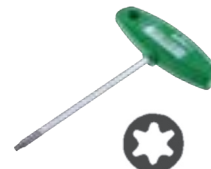


Order No.	Regular Price	SALE
PR0450005	81.37	43.95

28815

Wiha T-Handle TORX® Drivers

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



Torx Size	Order No.	Regular Price	SALE
T9	KN5436409	7.70	6.95
T10	KN5436410	7.88	6.95
T15	KN5436415	9.29	7.95
T15	KN5436417	9.46	7.95
T20	KN5436420	10.53	8.95
T20	KN5436422	10.53	8.95
T25	KN5436427	11.08	9.95

8000

Empire Professional Combination Squares

- 90° and 45° head
- Steel blade
- Self aligning drawbolt
- Full view acrylic vial
- 16" Graduations: 1/8", 1/16"



Blade Length	Order No.	Regular Price	SALE
16"	KP75280	25.50	20.95

30958

Crescent 150 Piece Mechanic's Tool Set

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



Set Includes	Model no	Order No.	Regular Price	SALE
(1) 150 Pc 1/4 and 3/8 Dr 6 Pt SAE/Metric Professional Tool Set, 2 Ratchets 3 Extensions 51 Standard Sockets Spark Plug Socket 12 Combination Wrenches 24 Hex Keys 2 Pliers Adjustable Wrench 2 Screwdrivers Magnetic Bit Driver with 38 Bits Bit Adapter 12 Nutdriver Bits	CTK150	KW50CTK150	207.52	204.95

30746

STANLEY Folding Utility Knife

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



Overall Length	Blade Length	ManufacturerNo	Order No.	Regular Price	SALE
5 3/4"	2 7/16"	10-855	KP431950	19.27	14.95

7745

STANLEY 173 Pc. Mechanics Tool Set

- 12 Pt. Sockets
- Chrome vanadium body
- Hard case



Set Includes	Model no	Order No.	Regular Price	SALE
1/4", 3/8", 1/2" Drive Pear Head Ratchet, 1/4" Drive 12 Point Sockets - SAE - 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 4 mm, 5.4 mm, 5 mm, 5.5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm; 1/4" Drive 12 Point Deep Sockets - SAE - 7/32", 1/4", 9/32", 5/16", 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm; 3/8" Drive 12 Point Sockets - SAE - 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 13/16", 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm; 1/2" Drive 12 Point Sockets - SAE - 3/8", 7/16", 1/2", 9/16", 5/8", 13 mm, 14 mm, 15 mm, 17 mm; Combination Wrenches - SAE - 1/4", 3/8", 7/16", 1/2", 8 mm, 9 mm, 10 mm, 12 mm; 1/4" Drive Spinner Handle, 1/4" Drive Bit Adapter; 1/4" Drive 3" Extension Bar; 3/8" Drive Spark Plug - 5/8"; 3/8" Drive 3" Extension Bar; Nut Bits - SAE - 3/16", 7/32", 1/4", 5/16", 11/32", 3/8", 7/16", 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm; 14 SAE Long Arm Hex Keys; 14 mm Long Arm Hex Keys; 44 Specialty Bits	STMT74857	KP437702	191.95	147.95

7687

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

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



Set Includes	Model No	Order No.	Regular Price	SALE
(1) 1/4" Drive Pear Head Ratchet; (1) 3/8" Drive Pear Head Ratchet; (21) 1/4" Sockets - 6 Pt; (16) 3/8" Drive Sockets - 12 Pt; (10) 3/8" Drive Deep Sockets - 6 Pt; (1) 1/4" Drive 3" Extension Bar; (2) 3/8" Drive 3" & 6" Extension Bars; (2) 3/8" Drive Spark Plug Sockets - 5/8"; 13/16" (1) 3/8" Drive M to 1/4" Drive F Adapter' (1) Long Nose Pliers; (1) Slip Joint Pliers; (1) Flat Head Screwdriver 6.5 mm; (1) Phillips Screwdriver 1 Pt; (14) Combination Wrenches; (18) Hex Keys; Blow Molded Carry Case	97-543	KP435724	223.03	171.95

7686

IRWIN VISE-GRIP C-Clamps

C-Clamps with Swivel Pads: Self-leveling swivel pad

C-Clamps: Small jaw areas at contact points are ideal for working in close quarters



No Pad



Swivel Pad

No Pad						
Overall Length	Jaw Capacity	Throat Height	Throat Depth	Order No.	Regular Price	SALE
6"	2 1/8"	2"	1 3/8"	KX506R	23.00	16.95
11"	3 3/4"	3 3/4"	2 1/2"	KX5011R	38.76	28.95
18"	8"	4"	9 1/2"	KX5018R	56.70	42.95

Swivel Pad						
Overall Length	Jaw Capacity	Throat Height	Throat Depth	Order No.	Regular Price	SALE
6"	2 1/8"	2"	1 1/4"	KX506SP	25.82	18.95
11"	3 3/4"	3 3/4"	2 1/2"	KX5011SP	41.65	30.95
18"	8"	4"	9 1/2"	KX5018SP	58.28	43.95

28734

IRWIN Locking Clamps & Pliers

- The original locking pliers
- Constructed of high-grade heat-treated alloy steel for maximum toughness and durability
- Hardened teeth are designed to grip from any angle
- Backed by the IRWIN VISE-GRIP Lifetime Guarantee



Long Nose, Wire Cutter - Yes					
Overall Length	Jaw Capacity	Throat Depth	Order No.	Regular Price	SALE
4"	1 5/8"	-	KX504LN	19.37	14.95
6"	2 1/4"	-	KX506LN	25.75	18.95
9"	2 7/8"	-	KX509LN	30.83	22.95

Overall Length	Jaw Capacity	Throat Depth	Order No.	Regular Price	SALE
8"	3 1/8"	1 3/4"	KX508R	29.08	21.95

23472

MAG-MATE Inspection Mirror/Magnet Combination Tools

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



NE70306G240



NE70315G240



NE70321A931



NE70301G240



NE70314S925



NE70375G990

Mirror Width	Mirror Length	Material	Overall Length	Extended Length	Pull	Order No.	Regular Price	SALE
2"	2"	Glass	6 1/4"	28"	2 lbs	NE70301G240	17.58	13.95
1 1/2"	1 1/2"	Glass	6"	23 1/2"	2 lbs	NE70306G240	23.93	18.95
3"	2"	Stainless	8 1/4"	38"	7 lbs	NE70314S925	50.71	40.95
1 1/4"	2"	Glass	6"	24 1/4"	2 lbs	NE70315G240	23.93	18.95
2 1/2"	1 7/8"	Acrylic	7 3/4"	32 1/2"	12 lbs	NE70321A931	52.46	41.95
-	-	Glass	14 1/4"	14 1/4"	20 lbs	NE70375G990	93.14	74.95

4044

HAND TOOLS

Crescent 9" Linesman Compound Action Cutting Plier

- Compound leverage design that increases cutting power
- Chrome vanadium steel for increased durability
- Co-molded grips for added comfort
- Induction hardened edges for long cutting life



Overall Length	Order No.	Regular Price	SALE
8"	KW50PS5429C	29.37	28.95

6584

Crescent **Wiss** 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



Order No.	Regular Price	SALE
LA50M1R	29.86	25.95
LA50M2R	29.86	25.95
LA50M3R	29.86	25.95

25561

Crescent **Wiss** Shears & Scissors

Easy Snip Utility Shears

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



LA50WEZSNIP

Heavy Duty Industrial Shears

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



LA5020
LA5022

Electrician's Scissors

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



LA50175E5

Overall Length	Blade Length	Type	Order No.	Regular Price	SALE
5"	1 3/4"	Electrician's Scissors	LA50175E5	28.83	20.95
8 1/2"	4"	Easy Snip Shears	LA50WEZSNIP	20.18	17.95
10 1/2"	4 3/4"	Heavy Duty Industrial Shears	LA5020	57.67	50.95
12 1/2"	6"	Heavy Duty Industrial Shears	LA5022	66.32	56.95

25564

wiha 11 Pc. Insulated Tool Set

A Must for SAFE Electrical Repair

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



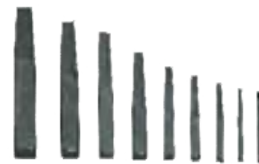
Order No.	Regular Price	SALE
KN5432977	281.69	249.95

While supplies last

28731

Williams 10 Pc. Extractor Set

- Will remove broken screws, bolts, studs and pipes
- Will handle a range from 1/4" to 1-1/2"
- A space for the proper drill size has been molded in the case for your convenience



For Removing	Drive Size	Order No.	Regular Price	SALE
1/4" - 5/16"; 3/8"; 7/16"; 1/2" - 9/16"; 5/8"; 3/4"; 7/8"; 1" - 1-1/8"; 1-1/4" - 1-3/8" 1-1/2"	1/8"; 3/16"; 7/32"; 5/16"; 3/8"; 15/32"; 9/16"; 21/32"; 13/16"; 1 1/16"	KP30EXS10	176.90	154.95

7518

Williams 6 Pc. Screw Extractor Set

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



Set Includes	Order No.	Regular Price	SALE
1/8", 3/16", 7/32", 5/16", 3/8", 15/32"	KP30EXS30	66.56	57.95

30233

Young Bros. Heavy Duty Combination Stamps Sets

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



Character Size	Square Size	Overall Length	Weight	Order No.	Regular Price	SALE
1/32"	1/4"	2 3/8"	2 lbs	KF5000363	249.83	220.95
1/16"	1/4"	2 3/8"	2 lbs	KF5001363	197.65	171.95
3/32"	5/16"	2 1/2"	3 lbs	KF5002363	197.65	171.95
1/8"	5/16"	2 1/2"	3 lbs	KF5003363	197.65	171.95
5/32"	3/8"	23/4"	4 lbs	KF5004363	222.52	197.95
3/16"	3/8"	2 3/4"	4 lbs	KF5005363	234.42	207.95
1/4"	7/16"	3"	6 lbs	KF5006363	270.11	230.95
5/16"	1/2"	3"	8 lbs	KF5007363	337.97	304.95
3/8"	9/16"	3 1/8"	11 lbs	KF5008363	387.99	367.95
1/2"	3/4"	3 3/4"	28 lbs	KF5009363	617.54	570.95

8077

Transfer Punch Set

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

- Heat treated tempered steel
- Black oxide finish



Order No.	Regular Price	SALE
KH55NTP33	116.81	104.95

7915

Eklind® HEX-L™ Key Sets

- Sets come in a compact plastic holder that firmly retains the keys in size with marked holes with friction rings
- Sets have practical assortments with color coded case for inch (red) and metric (blue)
- Chrome nickel alloy steel, hardened and tempered



Number of Pieces	Sizes Included	Order No.	Regular Price	SALE
9	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	KM5010609	18.42	12.95
13	.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	KM5010213	19.19	13.95
22	1.5", 2", 2.5", 3", 4", 5", 6", 8", 10"	KM5010222	34.92	18.95

23148

Eklind® 22 Pc. Ball-Hex-L™ Set Fractional & Metric

- Sets come in plastic holder that firmly retains the keys in size marked holes
- Ball driver provides a 25° angle entry
- Heat treated steel
- Sizes: .050 - 3/8" & 1.5 - 10mm



Number of Pieces	Sizes Included	Order No.	Regular Price	SALE
22	.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, 1.5, 2, 2.5, 3, 4, 5, 6, 8, & 10	KM5013222	59.70	18.95

23145

PRM® Ball End Hex Key Sets

Fractional or Metric

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



Number of Pieces	Sizes Included	Order No.	Regular Price	SALE
9	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	KP4227020	25.81	13.95
13	.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	KP4227025	35.66	18.95

7275

APEX® Phillip Bits Power Drive - 1/4" Drive

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



Tip Size	Overall Length	Model No	Order No.	Regular Price	SALE
#0	2 3/4"	4910-AX	KW7060080	4.12	3.60
#0	1 15/16"	4910X	KW7060085	3.42	3.00
#1	2 3/4"	491-AX	KW7060090	3.42	3.00
#1	3 1/2"	491-BX	KW7060095	4.39	3.85
#1	6"	491-CX	KW7060100	5.39	4.70
#1	1 15/16"	491X	KW7060105	3.05	2.65
#2	2 3/4"	492-AX	KW7060120	2.98	2.60
#2	3 1/2"	492-BX	KW7060130	3.48	3.05
#2	6"	492-CX	KW7060135	6.80	5.95
#2	1 15/16"	492X	KW7060140	2.13	1.85
#3	1 15/16"	4930X	KW7060145	3.23	2.70
#3	2 3/4"	493-AX	KW7060150	2.98	2.60
#3	3 1/2"	493-BX	KW7060155	3.48	3.05
#3	1 15/16"	493X	KW7060160	2.34	1.90

6464

PRM® 2" & 3-1/2" Torx® Power Bits

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



Tip Size	Overall Length - 2"			Overall Length - 3 1/4"		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
T5	KN7020100	1.65	1.40	-	-	-
T6	KN7020105	1.65	1.40	KN7020160	2.10	1.80
T7	KN7020110	1.65	1.40	KN7020165	2.10	1.80
T8	KN7020115	1.42	1.19	KN7020170	2.10	1.80
T9	KN7020120	1.42	1.19	KN7020175	2.10	1.80
T10	KN7020125	1.42	1.19	KN7020180	1.88	1.60
T15	KN7020130	1.42	1.19	KN7020185	1.88	1.60
T20	KN7020135	1.42	1.19	KN7020190	1.88	1.60
T25	KN7020140	1.42	1.19	KN7020195	1.88	1.60
T27	KN7020145	1.42	1.19	-	-	-
T30	KN7020150	1.42	1.19	KN7020200	1.88	1.60
T40	KN7020155	1.42	1.19	-	-	-

28703

PRM® Torx Screwdrivers

- BI-molded comfortable ergo-ease handles
- Blade hardened tips for longer life
- Chrome plated rust resistant blade
- S2 modified steel through hardness for maximum durability



Point Size	Blade Length	Overall Length	Order No.	Regular Price	SALE
T5	2.44"	5 3/8"	KN7010605	4.09	3.45
T6	2.44"	5 3/8"	KN7010606	4.09	3.45
T7	2.44"	5 3/8"	KN7010607	4.09	3.45
T8	2.44"	5 3/8"	KN7010608	4.09	3.45
T9	2.44"	5 3/8"	KN7010609	4.09	3.45
T10	3.18"	7"	KN7010510	4.13	3.50
T15	3.18"	7"	KN7010515	4.25	3.60
T20	4"	8 1/4"	KN7010520	4.36	3.70
T25	4"	8 1/4"	KN7010525	4.57	3.90
T30	4.62"	8 3/4"	KN7010530	5.31	4.50

6960

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

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



Order No.	Regular Price	SALE
KN5452650	24.44	21.95

7933

TITAN® 60 Lumen LED Mini Flashlight

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



Order No.	Regular Price	SALE
KP8236016	24.16	17.95

While Supplies Last

3179

HAND TOOLS



Ratchets

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



Drive Size	Overall Length	Head Style	Handle Type	COO	Order No.	Regular Price	SALE
1/4"	5"	Round, Pear, Flex Head, & Open Head	Smooth	Taiwan	KP3030001	28.01	24.95
3/4"	20"	Narrow Pear	Plain	China	KP30H51B	192.85	168.95
3/8"	9 3/4"	Narrow Pear	Smooth	USA	KP30B52EHFB	82.55	71.95

7598



4 Pc. Adjustable Wrench Set

6", 8", 10" & 12"

- Durable chrome vanadium construction
- ProTouch™ grips provide extra comfort and reduces hand fatigue
- English and metric scales
- Extra wide capacity
- Hang hole for easy wall storage



Order No.	Regular Price	SALE
KX502078706	87.77	65.95

6776



Cushion Grip Screwdrivers TORX®

Drivers

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



Tip Size	Order No.	Regular Price	SALE
T6	KN5436266	6.55	5.95
T7	KN5436268	6.38	5.95
T8	KN5436270	6.38	5.95
T9	KN5436272	7.09	5.95
T10	KN5436274	7.13	5.95
T15	KN5436276	7.68	6.95
T20	KN5436278	7.90	6.95
T25	KN5436280	9.39	7.95

25525



Slotted & Phillips Individual Insulated Screwdrivers

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



Slotted Phillips

Slotted				
Tip Size	Overall Length	Order No.	Regular Price	SALE
3 mm	204 mm	KN5432012	7.30	5.95
3.5 mm	204 mm	KN5432015	7.79	6.95
4.5 mm	236 mm	KN5432024	9.43	7.95
6.5 mm	268 mm	KN5432039	13.10	11.95

Phillips				
Tip Size	Overall Length	Order No.	Regular Price	SALE
#1	7.5"	KN5432101	9.23	7.95
#2	8.6"	KN5432102	11.45	9.95
#3	10.6"	KN5432103	16.46	14.95

25517



Drive Extensions

Full Polish

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



Drive Size	Overall Length	ManufacturerNo	Order No.	Regular Price	SALE
1/4"	2"	J4759	KP4240525	13.42	6.45
1/4"	3"	J4760	KP4240530	16.42	8.50
1/4"	6"	J4761	KP4240535	17.00	8.95
3/8"	3"	J5260	KP4240565	17.78	8.95
3/8"	6"	J5260-06	KP4240570	21.80	11.95
3/8"	8"	J5261	KP4240575	24.48	12.95
3/8"	12"	J5262	KP4240580	27.16	13.95
1/2"	2 1/2"	J5460	KP4240600	23.40	11.95
1/2"	5"	J5461	KP4240605	26.25	13.95
1/2"	10"	J5463	KP4240610	33.30	17.95
1/2"	20"	J5464	KP4240615	57.46	29.95

7240



Flexible Extensions

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



KP4240730



KP4240770

Drive Size	Overall Length	Finish	Model No	Order No.	Regular Price	SALE
1/4"	6"	Full Polish Chrome	J4765	KP4240730	27.42	13.95
3/8"	8"	Black Oxide	J5268	KP4240770	37.95	19.95

7266



Adjustable Spanner Wrenches - Hook & Pin

- Ideal for adjusting collars, lock nut rings, and bearings
- Specifically engineered to hold up under the most rigorous industrial use
- Industrial black finish, SAE
- Alloy steel



Adjustable Pin Spanner Wrench



Adjustable Hook Spanner Wrench

Adjustable Hook Spanner Wrench						
Maximum Capacity	Overall Length	Pin Length	Pin Diameter	Order No.	Regular Price	SALE
2"	6 3/8"	-	-	KP30471	44.24	38.95
3"	8 1/8"	-	-	KP30472	50.15	43.95
4 3/4"	11 3/8"	-	-	KP30474	69.91	60.95
6 1/4"	12 1/8"	-	-	KP30474A	73.91	64.95
8 3/4"	13 3/4"	-	-	KP30474B	89.32	77.95

Adjustable Pin Spanner Wrench						
Maximum Capacity	Overall Length	Pin Length	Pin Diameter	Order No.	Regular Price	SALE
2"	6"	1/8"	1/8"	KP300471	46.55	40.95
2"	6 1/8"	5/32"	3/16"	KP300471A	46.55	40.95
3"	7 1/2"	3/16"	3/16"	KP300472	52.67	45.95
3"	7 1/2"	7/32"	1/4"	KP300472A	52.67	45.95
4 3/4"	10 1/2"	1/4"	1/4"	KP300474	72.47	62.95
6 1/4"	10 1/2"	1/4"	3/8"	KP300474A	77.72	67.95

7563



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



Overall Length	Bastard			2-nd Cut			Smooth		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	KL3011430410	5.54	4.35	KL3011430420	7.70	5.95	KL3011430430	8.21	5.95
6"	KL3011430610	6.08	4.79	KL3011430620	8.06	5.95	KL3011430630	8.50	6.95
8"	KL3011430810	6.73	5.30	KL3011430820	8.39	6.95	KL3011430830	9.86	7.95
10"	KL3011431010	8.39	6.95	KL3011431020	10.91	8.95	KL3011431030	11.81	8.95
12"	KL3011431210	14.04	10.95	KL3011431220	15.48	11.95	KL3011431230	17.50	13.95

7476

PRM PRO Mill Hand Files- Professional Grade

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



Overall Length	2nd Cut			Bastard			Smooth		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	-	-	-	PR0410104	4.38	2.40	PR0410204	5.25	2.85
6"	PR0410006	5.56	3.00	PR0410106	4.48	2.45	PR0410206	5.61	3.05
8"	PR0410008	6.95	3.75	PR0410108	5.61	3.05	PR0410208	7.06	3.80
10"	PR0410010	8.45	4.60	PR0410110	7.78	4.20	PR0410210	9.48	5.15
12"	PR0410012	11.43	5.95	PR0410112	11.07	5.95	PR0410212	13.38	6.95
14"	-	-	-	PR0410114	17.10	8.95	PR0410214	21.17	10.95

28638



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
10"	1 5/16"	KW50AC210VS	32.85	33.95
12"	1 1/2"	KW50AC212VS	37.33	35.95
4"	1/2"	KW50AC24VS	20.90	22.45
6"	15/16"	KW50AC26VS	22.39	23.45
8"	1 1/8"	KW50AC28VS	25.38	24.45

6586

STANLEY 65 Pc. Mixed Tool Set

- Forged from high-quality steel and finished in high-polish nickel chrome or black chrome
- Ratchet handles are ergonomically designed and have an easy-to-use, thumb-operated reverse-switch mechanism
- Sockets and extensions remain locked onto the drive until disengaged with an easy-to-reach, low-profile quick-release button
- Feature Max-Drive™ design, a unique radius corner design that provides 15% more torque than standard sockets to tighten fasteners easily and simplify the turning of rounded corners
- Max-Drive™ helps reduce fastener wear by minimizing contact on the outer 5% of the fastener, helping to increase life expectancy than standard sockets
- Max-Drive™ helps reduce slipping on frozen or rusted fasteners
- Meets ANSI specification



Sizes Included	Model No	Order No.	Regular Price	SALE
(30) 1/4" Drive Specialty Bits; (8) 1/4" Drive Sockets; (1) Each 16' Tape Rule, 18mm Snap-off Knife, 1/4" Dr. Bit Holder, 1/4" Drive Round Head Ratchet, Spinner Handle, Claw Hammer, Torpedo Level, 6" Long Nose Pliers, 6" Slip Joint Pliers, 2 Pt. Phillips Screwdriver, 65mm Flat Screwdriver, (8) Ea. SAE & Metric Hex Keys; Blow Molded Carry Case	94-248	KP435684	108.88	83.95

7709

PLANT & SAFETY

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



Wrist Support

Knee Pads

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
- Sold individually; specify left or right



Elbow Support

Knee Pads				
Size	Hand	Order No.	Regular Price	SALE
One Size	-	LF65300B	34.11	28.95
One Size	-	LF65300V	32.28	26.95

Wrist Support				
Size	Hand	Order No.	Regular Price	SALE
Large	Left	LF654000LL	18.84	14.95
Medium	Left	LF654000LM	18.84	14.95
Large	Right	LF654000RL	18.84	14.95
Medium	Right	LF654000RM	18.84	14.95

Elbow Support				
Size	Hand	Order No.	Regular Price	SALE
Large	-	LF65500L	15.95	12.95
Medium	-	LF65500M	15.95	12.95
X-Large	-	LF65500XL	15.95	12.95

23185

ProFlex® Back Supports & Gel Foam Knee Pad

ProFlex® 100 Economy Back Support

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



Back Support

ProFlex® 350 Gel 2 Pc. Kneepad

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



Knee Pads

Back Support			
Size	Order No.	Regular Price	SALE
Medium	LF65100M	33.77	26.95
Large	LF65100L	33.77	26.95
X-Large	LF65100XL	33.77	26.95
2X-Large	LF65100XXL	33.77	26.95

Knee Pads			
Size	Order No.	Regular Price	SALE
One Size	LF65350	61.44	54.95

23179

RUSH+

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



Lens Color	Frame Color	Order No.	Regular Price	SALE
Smoke	Black & Grey	BO1540208	18.03	10.95
Brown	Black & Grey	BO1540209	18.54	11.95
Twilight	Black & Grey	BO1540225	18.03	10.95
Clear	Yellow & Black	BO1540243	18.03	10.95
Smoke	Yellow & Black	BO1540244	18.03	10.95
Brown	Yellow & Black	BO1540245	18.54	11.95
Clear	Blue & Green	BO1540256	19.92	10.95
Smoke	Blue & Green	BO1540257	18.03	10.95
Clear	Black & Phosphorus Green	BO1540292	19.57	11.95
Brown	Grey	BO1540294	18.54	11.95
Clear	Black & Red	BO1541080	19.92	11.95

2506

RUSH+ Goggles

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



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black & Red	BO1540252	28.77	16.95
Twilight	Black & Grey	BO1540258	26.27	15.95
Smoke	Black & Grey	BO1540259	26.27	15.95
Light Brown	Black & Grey	BO1540284	27.30	15.95

2504

S21®

- Durable alloy temples with non-slip rubber head grips



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Scratch Resistant	Chrome	KB85S2110	9.87	7.95
Clear	Anti-Fog & Scratch Resistant	Chrome	KB85S2110AF	10.71	8.95

2531

BK1®

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



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Uncoated	Clear	KB85BK010	2.21	1.75
Clear	Scratch Resistant	Clear	KB85BK110	2.37	1.90
Clear	Anti-Fog & Scratch Resistant	Clear	KB85BK110AF	3.22	2.60
Gray	Scratch Resistant	Gray	KB85BK112	2.37	1.90
Light Blue	Scratch Resistant	Light Blue	KB85BK113	3.02	2.40
Mirrored	Scratch Resistant	Clear	KB85BK119	3.02	2.40

2529



Ever-Lite®

- Soft nose piece for snug fit
- Semi-frame & slim co-material temple design for lightweight spectacle - 22 gm
- Offers a clear panoramic view without obstruction
- 8 base wraparound lens provides full front side protection
- Scratch-resistant, polycarbonate lens provide 99.9% of UV protection



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Scratch Resistant	Black	KB54SB8610D	5.07	4.05
Clear	Scratch Resistant & Anti-Fog	Black	KB54SB8610DT	5.98	4.80
Gray	Scratch Resistant	Black	KB54SB8620D	5.84	4.70
Sky Blue Mirror	Scratch Resistant	Black	KB54SB8665D	8.10	5.95

2975



Cortez Safety Glasses

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



KB54SB3610S



KB54SO3610S



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black	KB54SB3610S	4.18	3.35
Clear	Orange	KB54SO3610S	4.18	3.35

24521



Rimless Safety Glasses with Black Temple, Gray Lens and Anti-Scratch Coating

- Lightweight, rimless design provides all day user comfort
- Thin, flexible temples provide a secure fit without uncomfortable pressure points
- Molded nose bridge design to fit the vast majority of users
- 9.5 Base curve lens
- Meets ANSI Z87.1+ | Meets CSA Z94.3



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Scratch	Clear	PP1017635	1.73	1.40
Gray	Anti-Scratch	Gray	PP1017640	1.78	1.45
Clear	Anti-Scratch / Anti-Fog	Clear	PP1017660	2.07	1.65
Clear	Anti-Scratch	Clear	PP1017675	1.64	1.35
Clear	Anti-Scratch / Anti-Fog	Clear	PP1017685	1.80	1.45
Clear	Uncoated	Clear	PP1017690	1.53	1.25

29825

3M 3M™ BX™ Protective Eyewear with Readers

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



Lens Color	Frame Color	Magnification	Order No.	Regular Price	SALE
Clear	Silver	1.5x	KB3511374	18.50	16.95
Clear	Silver	2.0x	KB3511375	18.50	15.95
Clear	Silver	2.5x	KB3511376	18.50	15.95

2391



Protégé®

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



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Fog	Black	LF50S4200HS	10.65	7.95
Gray	Anti-Fog	Black	LF50S4201HS	12.26	8.95

2696



Faceshields & Headgear

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



Headgear							
Shield Width	Shield Height	Shield Thickness	Shield Material	Width	Order No.	Regular Price	SALE
-	-	-	-	6 1/2" 7 3/4"	KB85103	12.85	9.95

Face Shield							
Shield Width	Shield Height	Shield Thickness	Shield Material	Width	Order No.	Regular Price	SALE
15 1/2"	8"	0.040"	Polycarbonate	-	KB85181640	4.17	3.35
15 1/2"	10"	0.040"	Polycarbonate	-	KB85101640	4.38	3.50

2535



Gloves

- Gunn pattern
- 2-1/2" Rubberized safety cuffs



Leather



PVC



Cotton/Polyester

Size	Material	Order No.	Regular Price	SALE
Large	Leather	KB511200L	4.43	4.00
X-Large	Leather	KB511200XL	4.76	3.35
Large	PVC	KB516524SJ	6.03	4.25
Large	Cotton/Polyester	KB519680L	3.87	2.70
X-Large	Cotton/Polyester	KB519680XL	3.87	2.70

30874

PLANT & SAFETY

MCR SAFETY 9673 UltraTech® Foam Gloves

- 24 Gauge gray nylon shell
- Black foam nitrile coating on palm and fingertips
- Used in multi-industrial applications
- Breathable material



Size	Order No.	Regular Price	SALE
Small	KB519673S	3.32	2.35
Medium	KB519673M	3.32	2.35
Large	KB519673L	3.32	2.35
X-Large	KB519673XL	3.32	2.35

30900

MCR SAFETY 7100 Cotton Jersey Glove

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



Size	Material	Color	Order No.	Regular Price	SALE
Large	Cotton Jersey	Black	KB51BJ	1.21	0.84

30776

PRM Medium-Duty Worker's Gloves

- Made with select shoulder leather
- 2-1/2" or 4-1/2" cuff
- Fleece palm lining



Size	Cuff Size	Order No.	Regular Price	SALE
Large	2-1/2"	KB38200L	3.93	3.05
Large	4-1/2"	KB38205L	4.56	3.55

30899

Disposable Nitrile Gloves - Powder Free 4, 5 & 8 Mil

- Economical puncture resistance with great comfort, dexterity and tactile sensitivity
- Textured grip provides a good grip in wet or dry environments
- Contains no natural rubber latex proteins
- Ambidextrous for quick and easy donning
- Rolled cuff adds additional strength to cuff edge for longer glove life and prevents liquid run-off
- Powder-Free for clean comfort and superior tactile sensitivity
- Made from component materials that comply with Federal Regulations for food contact, 21 CFR 177.2600
- Industry Grade - For non-medical use



	5 mil, Blue, Powder Free				8 mil, Blue, Powder Free				4 mil, Blue, Powder Free			
Size	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE			
Small	PP1024845	13.27	9.95	PP1024935	13.15	9.95	PP1024980	10.59	7.95			
Medium	PP1024840L	13.27	9.95	PP1024930	13.15	9.95	PP1024975	10.59	7.95			
Large	PP1024835L	13.27	9.95	PP1024925	13.15	9.95	PP1024970	10.59	7.95			
X-Large	PP1024850	13.27	9.95	PP1024940	13.15	9.95	PP1024985	10.59	7.95			

29846

SHOWA 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	SG2501275	2.20	1.50
Small	SG2501280	2.20	1.50
Medium	SG2501285	2.20	1.50
Large	SG2501290	2.45	1.65
X-Large	SG2501295	2.20	1.50
2X-Large	SG2501300	2.20	1.50

30755

Dexterity® Micropore Nitrile Palm Coated Glove- Maximum Durability

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



Size	Abrasion Rating	ManufacturerNo	Order No.	Regular Price	SALE
Small	ANSI Level 6	S15NAPN-7	SG0273725	4.22	3.94
Medium	ANSI Level 6	S15NAPN-8	SG0273730	4.22	3.94
Large	ANSI Level 6	S15NAPN-9	SG0273735	4.22	3.94
X-Large	ANSI Level 6	S15NAPN-10	SG0273740	4.22	3.94
2X-Large	ANSI Level 6	S15NAPN-11	SG0273745	4.22	3.94

30828

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
Large	ANSI A3	ANSI Level 4	TKTAGLX-L	SG0273490	9.27	8.25
Medium	ANSI A3	ANSI Level 4	TKTAGLX-M	SG0273480	9.27	8.25
Small	ANSI A3	ANSI Level 4	TKTAGLX-S	SG0273470	9.27	8.25
X-Large	ANSI A3	ANSI Level 4	TKTAGLX-XL	SG0273500	9.27	8.25
2X-Large	ANSI A3	ANSI Level 4	TKTAGLX-XXL	SG0273510	9.27	8.25
3X-Large	ANSI A3	ANSI Level 4	TKTAGLX-XXX	SG0273520	9.27	8.25

30833

W Y0135 Grain Leather Driver

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



Size	Order No.	Regular Price	SALE
Small	LW0110340	6.67	5.95
Medium	LW0110345	6.67	5.95
Large	LW0110350	6.67	5.95
X-Large	LW0110355	7.13	5.95

30892

Clutch Gear® High-Dexterity Goatskin Mechanic gloves

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



Size	Abrasion Rating	ManufacturerNo	Order No.	Regular Price	SALE
Small	ANSI Level 5	MXGCE/S	SG0259480	14.68	12.50
Medium	ANSI Level 5	MXGCE/M	SG021085	14.68	12.50
Large	ANSI Level 5	MXGCE/L	SG021090	14.68	12.50
X-Large	ANSI Level 5	MXGCE/XL	SG021095	14.68	12.50
2X-Large	ANSI Level 5	MXGCE/XXL	SG0259490	14.68	12.50

30827

FR BALACLAVA GRAY

- This fire-resistant balaclava is designed for maximum comfort and all-day wear.
- Two-layer Kermel-viscose blend.
- Fire Resistant material that is launderable.
- NFPA 70E compliant and CAT2; Ebt 16 cal/cm2.



Type	Color	Fits Hat Size	Material	Order No.	Regular Price	SALE
Balaclava	Grey	One Size	FR SOFT FABRIC	SG0290000	40.56	28.95

30862

3M 3M™ Skull Screws™ Earplugs P1310

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



Noise Reduction Rating	Style	Order No.	Regular Price	SALE
32 dB	Corded	KB3592952	1.01	0.90

Sold in Box Only

22585

3M 3M™ Peltor™ Optime™ 105 Earmuff, Over-the-Head

- Suitable for noise levels up to 105 dBA
- Wide, softly padded headband and soft foam-filled ear cushions provide a comfortable fit



Noise Reduction Rating	Order No.	Regular Price	SALE
30 dB	KB35H10A	40.50	33.95

2399

Honeywell Laser Lite® Disposable Foam Earplugs

- Vibrant colors make protection visible
- Smooth, soil-resistant closed-cell foam skin prevents dirt build-up
- Contoured T-shape for easy insertion and wear
- Self-adjusting foam expands to fit virtually every wearer
- Compliance: ANSI S3.19-1974
- Uncorded and corded
- NRR: 32 dB



LF50LL1



LF50LL1D



LF50LL30

Style	Standard Pack	Order No.	Regular Price	SALE
Uncorded	200	LF50LL1	0.21	0.17
Reusable / Uncorded	500	LF50LL1D	0.23	0.20
Corded	100	LF50LL30	0.41	0.35

Price per each

23322

ISOtunes ISO Pro Aware Earplugs

- Aware Technology™ offers complete situational awareness and protection from harmful noises.
- ANSI-certified 25 dB NRR
- OSHA-compliant hearing protection
- SafeMax™ Technology limits volume output to 85dB.



- Up to 13 hours of battery life
- Up to 25 additional hours with charging case
- IP67 durability for dust, sweat, and waterproof protection
- Background noise-reducing microphone for clear communication in loud environments
- Bluetooth 5.2 connects devices up to 30 feet.
- Siri/Google Voice Compatible
- Automatic Power Off after 2 hours without Bluetooth connection for battery conservation
- True Wireless Design

Noise Reduction Rating	Style	Color	Order No.	Regular Price	SALE
ANSI-certified 25 dB NRR	Uncorded	Lime/Black	HT015015	205.99	194.95

30836

PLANT & SAFETY

3M Disposable Respirators

Particulate Respirator 8511, N95

- Intended applications include grinding, sanding, sweeping, and other dusty/hot operations
- Features the Cool Flow™ exhalation valve with adjustable M-nose clip for custom fit and secure seal



KB35464573

Particulate Respirator 8247, R95, with Nuisance Level Organic Vapor Relief.

- Designed to help provide comfortable protection against certain oil and non-oil based particles including those present with nuisance levels of organic vapors, such as solvents, degreasers, and resins



KB35543438

Particulate Respirator 8210, N95

- Adjustable nose clip
- Nose foam pad
- Great for grinding, bagging, sanding, sweeping and other dusty operations

Order No.	Regular Price	SALE
KB35464573	1.27	1.10
KB35543438	3.01	2.60

22582

Flame Retardant Cotton Jackets

- Cotton fabric is processed and treated to be permanently flame retardant, and maintaining it for as many as 50 home washings or 25 commercial washings
- Cooler, lighter, economical solution for light exposure to sparks and spatter
- Weldmite™ 9 oz. FR cotton
- Snap front and wrist closure
- Relaxed full cut fit
- Large inside pocket
- Black anodized non-reflective snaps
- Leather reinforced snaps



Green



Black

			Green			Black		
Size	Chest Size	Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Medium	44"-46"	30"	RT581030M	26.88	20.95	RT581160M	40.27	31.95
Large	48"-50"	30"	RT581030L	26.88	20.95	RT581160L	40.27	31.95
X-Large	52"-54"	30"	RT581030X	26.88	20.95	RT581160X	40.27	31.95
2X-Large	56"-58"	30"	RT5810302X	27.81	21.95	RT5811602X	41.72	32.95

3137

Leather Bib Apron

- Stitched with Kevlar
- Rivet reinforced stress points
- Adjustable nylon straps with quick release buckle
- Bib style aprons have 2-compartment chest pocket
- Weld-Rite aprons are quality crafted from four or less split cowhide pieces providing fewer seams and more comfort



Size	Order No.	Regular Price	SALE
24" x 36"	RT5892165	51.40	40.95

25090

Disposal Medical 3-Ply Face Mask

- Comfortable and breathable, soft & skin friendly
- Plane ear hook
- Size 6.88 inch x 3.75 inch
- Includes adjustable nose bridge strip
- Bacterial filtration rate ≥ 95%
- FDA approved medical
- 50 per box, priced each



Order No.	Regular Price	SALE
MA2650000	1.03	0.80

PRICE PER EACH MASK

29357

Intrinsically Safe Razor LED

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



Body Color	Order No.	Regular Price	SALE
Hi Vis Green	KN0160101	35.33	27.95
Orange	KN0160102	35.33	27.95

2744



Wedgies Shims

- Wedgies™ Installation Shims are stackable, non-slip, plastic shims used for leveling and stabilizing
- Available in mini (1.2" x .58" x .16"), standard (1.9375" x .1875 x .25") and large (3.54" x 2.36" x .48") sizes
- 37 Pc. assortment contains 8 rigid and 8 flexible mini shims, 4 rigid and 2 flexible single wide large shims, 5 flexible and 10 rigid standard shims - **Order No. MA5748950**
- Priced per pack/assortment



Wedgies									
Length	Width	Thickness	Style	Feature	Color	Standard Pack	Order No.	Regular Price	SALE
1.9375"	0.1875"	0.25"	Regular	Rigid	Black	200	MA5748605	119.22	86.95
1.9375"	0.1875"	0.25"	Regular	Rigid	Black	30	MA5748620	26.06	17.95
1.9375"	0.1875"	0.25"	Regular	Flex	White	200	MA5748805	140.26	101.95
1.9375"	0.1875"	0.25"	Regular	Flex	White	30	MA5748820	30.64	22.75
1.9375"	0.1875"	0.25"	Regular	Flex	Clear	30	MA5748920	30.64	22.75
1.9375"	0.1875"	0.25"	Regular	Rigid	Translucent	30	MA5748975	28.98	19.95
3.54"	2.36"	0.48"	Large	Rigid	Translucent	8	MA5748940	62.13	44.95
3.54"	2.36"	0.48"	Large	Rigid	Clear	8	MA5748945	62.13	44.95

1505



Heavy Duty Barrel Pump

- Two-piece telescoping suction tube fits 30 to 55 gallon drums
- Pump delivers a full ten ounces of fluid per stroke
- Rugged epoxy finish pump assembly
- Discharge spout thread fits all garden hose fittings
- Complete with a standard bung adapter, tough all steel foot valve and piston valve
- For oil based material only
- Weight: 7 lbs.



Type	Weight	Order No.	Regular Price	SALE
Heavy Duty Barrel Pump	7 lbs	LX55L3000	59.62	40.95

5436

DAZOR Handheld Lighted Magnifier

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



Magnification	Battery Size	Number of Batteries	Lamp Type	Order No.	Regular Price	SALE
2.5X	AAA	4	24 x 0.5W Hi Brightness LEDs	KC50J203HHM	84.46	73.95
2.5X	AAA	4	12 x 0.5W Hi Brightness LEDs	KC50JMINI	75.19	65.95

2549

PRM PRO LED Industrial Work Light

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



Order No.	Regular Price	SALE
KE75JWL5514L	218.57	183.95

2945

BAYCO Heavy Duty Cord Reels

- 50' Heavy-Duty Cord Reel Triple-Tap "T" Style
- 50' Heavy-duty 14/3 cord, (SJTW)
- Tri (3) Polarized plug with four 13 amp grounded receptacles
- 40% Larger cord reel with smooth glide rewind
- Resettable 13 amp circuit breaker
- LED power status light
- Mounting brackets (included)



KE58SL800

Heavy-Duty Cord Reel 3-Tap Straight Plug

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



KE58SL8903

Cord/Cable Length	Order No.	Regular Price	SALE
30 feet	KE58SL800	81.19	70.95
50 feet	KE58SL8903	225.02	200.95

22769

STAYLITE Stylus® LED Penlights

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



LED Color	Order No.	Regular Price	SALE
White	KA5765018	29.80	18.95
Blue	KA5765022	29.80	18.95

25101

Milk House Style Fan Forced Portable Heater

- Temperature control thermostat fan forced air
- 2 Heat settings
- Tip over safety switch
- Automatic reset limit control
- Thermal cut-off device
- 6' Long 3 conductor cord
- 15 Amp / 120V / Grd plug



BtuH Output	Amperage	Wattage	Order No.	Regular Price	SALE
5120 Btu/h	12.5 A	1,500 W	PS30800419	135.96	108.95

Subject to model change

3171

CCI Polar/Solar® Outdoor Cold Weather Extension Cords

- Rugged T*Prene insulation provides superior resistance to abrasion, ozone, oil, grease and chemicals
- Reinforced blades help prevent accidental bending or breaking
- Heavy-duty strain relief protects electrical connections resulting in longer cord life
- Outer jacket is flame retardant and water resistant
- Power indicator light in the female receptacle to show that the power is onUL Listed & CSA Certified outdoor use cord set
- Meets OSHA requirements for outdoor use



Heavy								
Length	Gauge	Current	Color	Number of Outlets	Voltage	Order No.	Regular Price	SALE
25'	14/3	15 A	Yellow	1	125 V	KD6001487	41.20	37.95
50'	12/3	15 A	Yellow	1	125 V	KD6001688	94.74	84.95
50'	14/3	15 A	Yellow	1	125 V	KD6001488	59.72	50.95
100'	14/3	13 A	Yellow	1	125 V	KD6001489	155.50	139.95

Extra Heavy								
Length	Gauge	Current	Color	Number of Outlets	Voltage	Order No.	Regular Price	SALE
25'	12/3	15 A	Yellow	1	125 V	KD6001687	48.41	44.95
100'	12/3	15 A	Yellow	1	125 V	KD6001689	216.43	194.95

2521

DURACELL® PROCELL Alkaline Industrial Batteries

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



Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
AAA	24	4133353648	DU0310000	0.92	0.75
AA	24	4133352148	DU0310050	0.92	0.75
9V	12	4133352748	DU0310200	3.85	3.25
C	12	4133311440	DU0310070	2.17	1.80
D	12	4133311340	DU0310090	2.59	2.15

PRICED PER EACH BATTERY

28639



Right Choice™

Right Choice® Facial Tissue

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



Sheet Size	Ply	Sheets per Package	Color	Order No.	Regular Price	SALE
7.25" x 8.5"	2	100	White	RC0110185	70.22	38.95

28733

Right Choice® Paper Towels

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



Type	Width	Length	Ply	Color	Number Per Case	Number of Sheets	Order No.	Regular Price	SALE
Hardwound Roll	7.875"	350'	1	White	12 Rolls	-	RC0110100	67.08	37.95
Hardwound Roll	7.875"	350'	1	Natural	12 Rolls	-	RC0110105	52.46	29.95
Hardwound Roll	7.875"	800'	1	White	6 Rolls	-	RC0110110	71.56	39.95
Hardwound Roll	7.875"	800'	1	Natural	6 Rolls	-	RC0110115	58.48	32.95
Hardwound Roll	7.875"	700'	1	White	6 Rolls	-	RC0110120	64.74	35.95
Hardwound Roll	7.875"	700'	1	Natural	6 Rolls	-	RC0110125	50.66	28.95
Kitchen Roll	11"	8"	2	White	12 Rolls	250 RL	RC0110130	61.13	34.95
Kitchen Roll	11"	7.8"	2	White	30 Rolls	85 RL	RC0110135	61.06	32.95
Center Pull	10"	7.3"	2	White	6 Rolls	600 RL	RC0110140	60.59	33.95
C-Fold	10"	11.42"	1	White	10 pks	200 PK	RC0110145	50.62	28.95
Multi-Fold	9"	9.45"	1	White	16 pks	250 PK	RC0110150	65.18	35.95
Multi-Fold	9"	9.45"	1	Natural	16 pks	250 PK	RC0110155	47.52	26.95
Single Fold	9"	9.45"	1	White	16 pks	250 PK	RC0110160	54.56	29.95

28725

Right Choice® 2-Ply Bath Tissue

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



Style	Width	Diameter	Core Diameter	Number of Plies	Roll Length	Sheets per Roll	Number of Rolls	Order No.	Regular Price	SALE
Standard	4"	4.25"	1.75"	2	100'	400	96	RC0110165	102.88	56.95
Standard	4.5"	4"	1.5"	2	145.8'	500	96	RC0110170	130.50	69.95
Jumbo	3.25"	8"	3.5"	2	700'	-	12	RC0110180	61.80	33.95
Jumbo	3.3"	8.75"	3.25"	2	1000'	-	12	RC0110175	80.39	44.95

28724



RIGHT PRODUCTS. ✓

RIGHT QUALITY. ✓

RIGHT VALUE. ✓

RIGHT CHOICE. ✓

SC Johnson PROFESSIONAL Refresh™ Azure FOAM 1L Cartridge

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



Container Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
1 liter	Cartridge	DI15WRM1LDS	DI15AZU1L	17.23	14.95

22187

SC Johnson PROFESSIONAL Solopol® GFX™ 3.25L Cartridge

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



Container Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
3.25 liter	Cartridge	DI15GPF3LDQ	DI15GPF3LNA	66.26	60.95

22184

SC Johnson PROFESSIONAL Solopol® Classic 2L & 4L Cartridges

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



Container Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
2 liter	Cartridge	DI15HVV2LDB	DI15SOL2LT	35.09	30.95
4 liter	Cartridge	DI15HVV4LDB	DI15SOL4LTR	63.24	55.95

22174

SC Johnson PROFESSIONAL Kresto® Cherry 2L & 4L Cartridges

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



Container Size	Container Type	Fits in Dispenser Part Number	Order No.	Regular Price	SALE
2 liter	Cartridge	DI15HVV2LDB	DI15KCH2LT	42.02	36.95
4 liter	Cartridge	DI15HVV4LDB	DI15KCH4LTR	66.67	58.95

22175

SC Johnson PROFESSIONAL Deb Stoko® Cleanse Washroom 1000 Dispenser

- Manual white dispenser
- BioCote Protected
- Guaranteed for Life



Refill Size	Order No.	Regular Price	SALE
1 Ltr	DI15WRM1LDS	3.43	3.09

22188

SC Johnson PROFESSIONAL Deb Stoko® Restore 1000 Dispenser

- Manual white dispenser
- BioCote Protected
- Guaranteed for Life



Refill Size	Order No.	Regular Price	SALE
1 Ltr	DI15RES1LDS	3.43	3.09

22179

SC Johnson PROFESSIONAL Deb Stoko® Heavy Duty FOAM 3250 Dispenser

- Manual dispenser
- BioCote® Protected
- Guaranteed for Life



Refill Size	Order No.	Regular Price	SALE
3.25 Ltr	DI15GPF3LDQ	11.44	9.95

22185

SC Johnson PROFESSIONAL Deb Stoko® Cleanse Heavy 2000 & 4000 Dispensers

- Black manual dispenser
- BioCote Protected
- Guaranteed for Life



Refill Size	Order No.	Regular Price	SALE
2 Ltr	DI15HVV2LDB	9.16	7.95
4 Ltr	DI15HVV4LDB	18.31	15.95

22176

MATERIAL HANDLING

PRM^{PRO} Swivel Tractor Seat

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



Height	Order No.	Regular Price	SALE
18"-22"	RZ454000	176.00	148.95

5484

PRM^{PRO} Roller Shop Stool

With Side Drawers

- Two side drawers that will not interfere with the user's legs
- Front tray
- Tool bracket for easy access to your tools*
- Back seat handle, 2-1/2" casters
- Maximum loading capacity: 330 lbs.
- 3" Cushioned seat for user's comfort
- Hook holes on backside for "S" hooks
- Limited lifetime warranty



Order No.	Regular Price	SALE
RZ455500	90.00	75.95

*Tools not included, Ships via UPS

5478

ProLite™ High Performance, Hand-Applied Stretch Film

- Cast 5 layer stiff hand wraps
- Designed for easy down gauging and cost savings over thicker standard hand wrap films
- Maintains load containment while reducing film usage
- Sold 4 rolls per case



Width	Length	Gauge	Order No.	Regular Price	SALE
18"	1,500 feet	60-80	LF5200457	29.89	27.95

2727

Tuff Edge® Polyester Web Slings

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

KENNEDY Ultimate Organizer

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



Order No.	Regular Price	SALE
RX5582223	59.87	53.95

5435

KENNEDY Professional All Purpose Tool Boxes

Models K20B & K24B

- Includes lift-out tray; vinyl coated steel top handle
- Trays have divider for storing socket sets
- Brown wrinkle finish
- 20 gauge steel



Width	Depth	Height	Weight Capacity	Order No.	Regular Price	SALE
20.13"	8.63"	9 3/4"	14 lbs	RX50K20B	230.04	183.95
24.13"	8.63"	9 3/4"	16 lbs	RX50K24B	262.33	209.95

23608

KENNEDY 11 Drawer Machinist Chest

Model 52611B

- Brown wrinkle finish
- Front security panel
- Fold down top lid opens wide
- Tubular locking system
- Adjustable drawer dividers (8)
- UPS dimensional weight shipping rates apply



Width	Depth	Height	Order No.	Regular Price	SALE
26.75"	8 1/2"	18"	RX5052611B	877.83	701.95

* Available while supplies last

23602

Type 3, Web Sling												
Length - 10 feet				Length - 12 feet			Length - 8 feet			Length - 6 feet		
Width	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1"	SE82EE2801T10	45.28	32.95	SE82EE2801T12	51.54	37.95	SE82EE2801T8	39.03	28.95	-	-	-
2"	SE82EE2802T10	73.38	53.95	SE82EE2802T12	84.69	62.95	SE82EE2802T8	62.04	45.95	-	-	-
3"	SE82EE2803T10	116.81	85.95	SE82EE2803T12	135.14	100.95	SE82EE2803T8	98.48	72.95	SE82EE2803T6	80.17	58.95
4"	SE82EE2804T10	155.43	115.95	SE82EE2804T12	179.17	132.95	SE82EE2804T8	131.70	97.95	SE82EE2804T6	107.96	79.95

Type 4, Web Sling												
Length - 10 feet				Length - 3 feet			Length - 4 feet			Length - 6 feet		
Width	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1"	SE83EE2801T10	45.28	32.95	SE83EE2801T3	23.37	16.95	SE83EE2801T4	26.50	19.95	SE83EE2801T6	32.76	23.95
2"	SE83EE2802T10	73.38	53.95	SE83EE2802T3	33.72	24.95	SE83EE2802T4	39.39	28.95	SE83EE2802T6	50.72	36.95
										SE83EE2801T8	39.03	28.95
										SE83EE2802T8	62.04	42.95



Type 4, Web Sling



Type 3, Web Sling

PRM PRO Multi-Purpose Utility Cart

- Polyethylene shelves and legs
- Shelves reinforced with aluminum bars
- Scratch, dent, stain, and rust free design
- Tub shelves are 2-3/4" deep
- Integrated molded push handle
- 4" Swivel casters with stability locks (on 2 of the 4 casters)
- Capacity 400 lbs.
- Color: black
- Limited lifetime warranty
- Ships UPS at dimensional rate



24315

Width	Length	Height	Order No.	Regular Price	SALE
32"	37 1/4"	24"	SA7010075	274.08	230.95

Huot CNC Security Cart

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



Taper Size	Tool Capacity	Order No.	Regular Price	SALE
30	48	AP5316930	992.47	892.95
40	48	AP5316940	992.47	892.95
HSK 50A	36	AP5316950	992.47	892.95
HSK 63A	48	AP5316970	992.47	892.95
HSK 100A	36	AP5316980	992.47	892.95

Ships by common carrier

5361

JET Service Carts

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



23545

Width	Height	Length	Order No.	Regular Price	SALE
17 1/8"	33 1/2"	39 3/4"	RS50140018	206.00	195.95
25 5/8"	33 1/2"	46"	RS50140019	252.00	234.95

JET BRAND PRODUCTS NOT AVAILABLE IN CANADA.

RAPIDHOLD CNC Tool Carts

- Solid side panel construction
- Durable nylon inserts
- Baked on epoxy finish
- 4" x 1-1/2" casters rated at 1,000 lbs (2 swivel & 2 locking)
- 30"L x 15"W x 35"H



Taper Size	Tool Capacity	Weight	Order No.	Regular Price	SALE
40	24	52 lbs	RX8076302	407.76	344.95
50	15	52 lbs	RX8076304	444.45	375.95
HSK 63A	24	52 lbs	RX8076306	510.24	431.95

5508

JET J Series Pallet Trucks

JET® J Series Pallet Trucks are available in 6 different configurations. High quality welded steel construction to handle heavy lifting.

Features:

- 6" Fork Width
- 5,500 lbs Capacity
- 180 degree turning radius
- 2-1/2" low profile allows for easy engagement of pallets
- Easy-to-use fingertip controls permit single-handed operation
- Chrome-plated pump piston and ram provide corrosion resistance in any industrial environment
- Poly over steel 6-1/4 x 2-3/4 inch steer wheels ensure contact with uneven floors
- Steer wheels feature double-sealed lubricated bearings
- 2 Year Warranty



5398

Model No	Fork Length	Overall Width	Minimum Lift Height	Maximum Lift Height	Weight	Order No.	Regular Price	SALE
PT-2748J	48"	27"	2 1/2"	6 1/4"	203.5 lbs	RS50161009	610.32	571.95

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

DURHAM MFG Flammable Safety Cabinets

- Sturdy all welded double wall steel construction
- Self closing door
- Fusible link provided - melts to activate self close at 165 degrees
- 2" wide louvers support shelves, adjustable on 4" centers
- 2" Deep leak proof sump
- 2" Bunged air vents with flame arrestors on each side of the cabinet allows for ventilation



Width	Depth	Height	Number of Shelves	Weight	Order No.	Regular Price	SALE
17 3/8"	18 1/8"	22 1/8"	1	146 lbs	SB551004M50	665.38	598.95
17 3/8"	18 1/8"	23 11/40"	1	110 lbs	SB551004S50	691.11	621.95
23"	18"	41"	1	159 lbs	SB551012M50	696.90	626.95
23"	18"	41"	1	167 lbs	SB551012S50	753.18	677.95
34"	34"	65"	2	509 lbs	SB551060M50	1885.81	1696.95
34"	34"	65 3/8"	2	533 lbs	SB551060S50	2048.07	1842.95
42 1/8"	18 1/8"	18 1/8"	1	146 lbs	SB551012MH50	880.63	792.95
43"	18"	44"	1	285 lbs	SB551030M50	1202.90	1045.95
43"	18"	45 3/8"	1	309 lbs	SB551030S50	1329.01	1195.95
43"	18"	65"	2	409 lbs	SB551045M50	1728.28	1554.95
43"	18"	66 3/8"	2	423 lbs	SB551045S50	1706.03	1534.95
43"	34"	65"	2	587 lbs	SB551090M50	2146.33	1931.95
43"	34"	65 3/8"	2	623 lbs	SB551090S50	2473.85	2225.95

Ships By Common Carrier from Manufacturer

5273

MATERIAL HANDLING

PRM PRO 20" All Purpose Tool Bag

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



Length	Width	Height	Order No.	Regular Price	SALE
20"	11"	13"	LC700001	46.90	38.95

5461

PRM PRO Drum Dolly-Non-Marring Caster Wheels

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



For Use With	Drum Capacity	Order No.	Regular Price	SALE
55 Gallon Drums	1,500 lbs	PR05DLO55M	221.45	195.95

30841

PRM PRO General Purpose Tool Boxes

- Removable steel tote tray
- Heavy-duty side handles
- Double and single latch for strength
- Padlockable center hasp for security



Single Latch Tool Box



Double Latch Tool Box

Single Latch Tool Box						
Length	Width	Depth	Model No	Order No.	Regular Price	SALE
19 1/2"	19 1/2"	8"	J9977R	KP4292150	156.38	84.95
20"	20"	8 1/2"	J9975R	KP4292145	110.95	57.95

Double Latch Tool Box						
Length	Width	Depth	Model No	Order No.	Regular Price	SALE
14"	14"	6"	J9954-NA	KP4295020	64.72	31.95
19 1/2"	19 1/2"	8"	J9977-NA	KP4295000	142.78	77.95
26"	26"	8 1/2"	J9969-NA	KP4294995	277.89	150.95

5495

STANLEY 26-1/2" Top and Middle Chests

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



Middle Tool Chest										
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Total Cubic Inches	ManufacturerNo	Order No.	Regular Price	SALE
2	Ball Bearing	10.25"	26"	16"	Black	1,896	STST22625BK	KP436032	242.14	185.95

Tool Chest										
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Total Cubic Inches	ManufacturerNo	Order No.	Regular Price	SALE
5	Ball Bearing	19.75"	26"	16"	Black	5,840	STST22657BK	KP436040	411.66	316.95

FOB Novi, Michigan common carrier

29393

STANLEY 5-Drawer Roller Cabinet

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



Tool Cabinet													
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Drawers Sizes	Caster Diameter	Load Capacity	Total Cubic Inches	ManufacturerNo	Order No.	Regular Price	SALE
5	Ball Bearing	40.5"	26.5"	18"	Black	(1) 22.375x16.5x3.125, (1) 22.375x16.5x4.125, (2) 22.375x16.5x6.375, (1) 22.375x16.5x9.5	4 1/2"	650 lbs	8,030	STST22753BK	KP436046	629.63	484.95

29392

Vertil Tilting Drum Rings

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

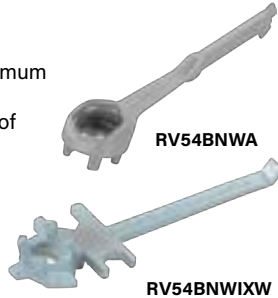


For Use With	Material	Width	Height	Order No.	Regular Price	SALE
30 Gallon	Carbon Steel	33-13/16"	5"	RV54TDR30G	103.97	95.95
30 Gallon	Stainless Steel 304	33-13/16"	5"	RV54TDR30SS	248.14	218.95
55 Gallon	Carbon Steel	37-15/16"	5"	RV54TDR55G	89.51	82.95
55 Gallon	Carbon Steel	37-15/16"	5"	RV54TDR55G	116.37	108.50
55 Gallon	Stainless Steel 304	37-15/16"	5"	RV54TDR55SS	260.54	225.95

5588

Vertil Drum Bung Nut Wrenches

- Open and close drum bungs or plugs for optimal results
- Multi-purpose features are ideal for maximum efficiency
- Unit is universal meaning it fits all types of drum plugs and bungs
- Durable wrenches will eliminate the need for extra tools



Material	Style	Order No.	Regular Price	SALE
Cast Aluminum	Non-Sparking	RV54BNWA	17.49	16.95
Cast Steel	Standard	RV54BNWIXW	32.94	30.95

†Available while supplies last

5564

Vertil Drum Faucets

#VDFT:

- Handle padlock hole keep unwanted users out
- Unique design offers graduated dispensing speed
- Ring around bottom allows attachment of hose
- Hook in front of faucet holds pails and buckets



RV54VDFT

#JDFT:

- Spout ring allows easy attachment of hose
- Faucet front hook conveniently hold pails and buckets
- Padlockable handle restricts access to unwanted individuals
- Unique design offers graduated dispensing speed



RV54JDFT

Material	Order No.	Regular Price	SALE
Polyethylene (LDPE) & Ethylene-Vinyl Acetate (EVA) Mixture	RV54JDFT	14.31	13.95
Polyethylene	RV54VDFT	8.09	6.95

5568

STANLEY Fatmax® Open Mouth Tool Bag

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



Height	Width	Length	Model No	Order No.	Regular Price	SALE
12"	10 3/8"	19"	518150M	KP438038	65.83	50.95

29405

FAIRBANKS Deluxe Canvas Tool Bag

- Detachable shoulder strap can be adjusted for a perfect fit
- Made of heavy-duty natural canvas
- Moisture-resistant vinyl bottom with non-scratch studs on the base to protect against wear
- Steel frame mouth with hinge for rugged use



Number of Pockets	Width	Length	Height	Color	ManufacturerNo	Order No.	Regular Price	SALE
10	6"	14"	10"	Brown/Tan	5102-14SP	KP6012805	126.40	105.95
13	6"	16"	14"	Brown/Tan	5102-16SP	KP6012815	131.06	109.95
13	6"	18"	14"	Brown/Tan	5102-18SP	KP6012825	134.27	112.95
17	6"	24"	15"	Brown/Tan	5102-24SP	KP6012835	146.63	122.95

28933

Socket Trays

Trays designed to help you work faster

- Sizes are marked on posts for instant identification
- Tough ABS plastic resists gas, oil and abuse
- Edge tangs for easy handling



Red, Imperial				
Drive	Socket Size	Order No.	Regular Price	SALE
1/2"	3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	RX801201	14.51	9.95
1/4"	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8"	RX801401	12.31	8.95
3/8"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	RX803801	12.31	8.95

Gray, Metric				
Drive	Socket Size	Order No.	Regular Price	SALE
1/2"	10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 20 mm, 21 mm, 22 mm, 23 mm, 24 mm, 25 mm, 27 mm	RX801202	14.51	9.95
1/4"	4 mm, 4.5 mm, 5 mm, 5.5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm	RX801402	12.31	8.95
3/8"	6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 20 mm	RX803802	12.31	8.95

5344

WORKHOLDING

Dorian Precision & Heavy Duty Live Centers with .00007" Max. Runout **Finally, A Live Center With Taper Roller Bearings!!!**

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

Features:

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



Shank Diameter	Maximum RPM	Order No.	Regular Price	SALE
1 MT	8,500	GG3548200	407.52	352.95
2 MT	6,000	GG3548201	440.59	379.95
3 MT	5,000	GG3548202	490.22	425.95
4 MT	4,000	GG3548203	633.07	554.95
5 MT	3,000	GG3548204	769.36	678.95
6 MT	2,500	GG3548205	1466.96	1302.95
2 MT	7,500	GG3548206	544.00	482.95
3 MT	6,000	GG3548207	604.29	537.95
4 MT	4,500	GG3548208	755.01	666.95
5 MT	2,800	GG3548209	941.60	831.95
6 MT	2,000	GG3548210	2058.33	1803.95
6 MT	1,700	GG3548211	4402.30	3822.95

23087

TECHNIKS CAT40 ER Style Collet Holders

- Balanced to 25,000 RPM at G2.5 tolerance
- They are individually lab tested for accuracy and balance and come with their individual performance report
- Techniks holders achieve 0.0001" or less T.I.R. as measured from the taper to the collet pocket



Connection Size (CSI)	Protruding Length (LPR)	Order No.	Regular Price	SALE
ER16	2.75"	TE1222225	188.49	139.95
ER16	4"	TE1222227	190.55	140.95
ER16	6"	TE1222231	211.15	159.95
ER16	8"	TE1222233	235.87	181.95
ER20	2.75"	TE1222235	188.49	139.95
ER20	4"	TE1222237	190.55	140.95
ER20	6"	TE1222239	219.39	166.95
ER25	2.75"	TE1222243	188.49	139.95
ER25	2.50"	TE122224325	188.49	139.95
ER25	4"	TE1222245	204.97	153.95
ER25	6"	TE1222247	211.15	159.95
ER25	8"	TE1222251	235.87	181.95
ER32	2.75"	TE1222253	202.91	152.95
ER32	4"	TE1222255	202.91	152.95
ER32	6"	TE1222257	228.66	175.95
ER32	8"	TE1222259	255.44	199.95
ER40	3.15"	TE1222261	211.15	159.95
ER40	4"	TE1222263	204.97	153.95
ER40	6"	TE1222265	249.26	193.95

25239

Jacobs Ball Bearing Super Chucks

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



Model No	Maximum Capacity	Mount Type	Key Style	Minimum Capacity	Order No.	Regular Price	SALE
8 1/2N	1/4"	Tapered	K30	0.040"	HK5030209	198.24	164.95
11N	3/8"	Tapered	K32	0.040"	HK5030215	220.92	182.95
14N	1/2"	Tapered	K3	0.040"	HK5030221	308.84	255.95
16N	5/8"	Tapered	K4	1/8"	HK5030227	354.50	292.95
18N	3/4"	Tapered	K4	1/8"	HK5030233	533.17	439.95
20N	1"	Tapered	K5	3/8"	HK5030239	717.96	594.95

23491

Jacobs Heavy Duty Plain Bearing Chucks

Taper Mounted

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



Model No	Minimum Capacity	Maximum Capacity	Mount Type	Key Style	Order No.	Regular Price	SALE
0	0.135"	5/32"			HK506200	132.18	110.95
34-02	0.040"	1/2"	Tapered	K3	HK5014442	151.43	125.95
34-06	0.040"	1/2"	Tapered	K3	HK506295	201.10	166.95
34-33	0.040"	1/2"	Tapered	K3	HK5014445	171.18	141.95
3326A	0.080"	1/2"	Straight	K32	HK506291	209.31	173.95
34-33C(4)	0.040"	1/2"	Tapered	K3C	HK5014451	158.18	131.95
33	0.080"	1/2"	Tapered	K32	HK506279	193.72	160.95
3A	1/8"	5/8"	Tapered	K3	HK506223	241.13	198.95
33KD(3)	0.080"	1/2"	Tapered	K32	HK506281	183.60	152.95
3KD(2)	1/8"	5/8"	Tapered	K3	HK506228	320.59	264.95
3PD(3)	1/8"	5/8"	Tapered	K3	HK506230	374.68	309.95
36	0.180"	0.800"	Tapered	K4	HK506309	304.30	251.95
36KD(2)	0.180"	0.800"	Tapered	K4	HK5014865	291.59	241.95

22155

LLAMBRICHUSA Classic Plus Keyless Drill Chuck with Integral Shank

Features:

- R8 Shank
- 7000 RPM Max.
- Capacity 1/32 to 1/2"
- Weight 2.6 lbs



Order No.	Regular Price	SALE
HK85L31411B	425.96	349.95

30962

Rite Hite Self Positioning Hold Down Clamps

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



Thread Size	Length	Width	Thickness	Maximum Height	Clamp Force	Holding Capacity	Weight	Order No.	Regular Price	SALE
1"	11 1/8"	2 7/8"	3 5/16"	5"	-	65,000 lbs	12.00 lbs	SG751000L	123.25	100.95
1"	9"	2 7/8"	3 5/16"	3"	-	8,000 lbs	10.00 lbs	SG751001S	119.34	97.95
3/8"	3 1/2"	1 1/8"	1 3/32"	1 1/4"	-	10,000 lbs	0.50 lbs	SG75375L	29.30	24.95
3/8"	3"	1 1/8"	1 3/32"	1"	-	14,000 lbs	0.50 lbs	SG75376S	27.35	21.95
1/2"	5 3/4"	1 7/16"	1 13 32"	2 1/2"	-	12,800 lbs	1.40 lbs	SG75500L	39.07	32.95
1/2"	4 1/4"	1 3/8"	1 13 32"	1 3/4"	-	16,800 lbs	1.00 lbs	SG75501S	37.11	30.95
5/8"	6 3/4"	1 7/8"	1 1/2"	3 1/2"	-	18,000 lbs	2.50 lbs	SG75625L	48.83	40.95
5/8"	5 1/2"	1 7/8"	1 1/2"	2 3/4"	-	24,000 lbs	2.00 lbs	SG75626S	46.89	38.95
3/4"	9"	2 1/8"	2 3/8"	5"	-	24,000 lbs	4.75 lbs	SG75750L	68.46	56.95
3/4"	7"	2.00"	2 3/8"	3 1/2"	-	35,000 lbs	4.00 lbs	SG75751S	66.51	54.95

22786

IRWIN C-Clamp

- Double-rolled thread
- Larger swivel pad reduces marring
- Larger handle for greater clamping pressure



Order No.	Regular Price	SALE
KX50101	3.31	2.50
KX50102	4.74	3.60
KX50103	9.80	6.95
KX50104	13.12	9.95
KX50106	19.04	13.95
KX50108	35.26	25.95
KX50123	13.51	9.95
KX50134	21.61	15.95

23450

Jergens Forged Adjustable Clamps

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



Bolt Size	Clamping Range	Clamp Width	Clamp Thickness	Heel to Center	Maximum Torque	Clamping Force	Order No.	Regular Price	SALE
1/2"	0-2"	1 3/4"	1 1/2"	2 1/2"	90 ft/lbs	6,800 lbs	SG6619101	56.24	48.95
5/8"	0-2 3/8"	2"	1 5/8"	3"	180 ft/lbs	10,600 lbs	SG6619102	70.10	61.95
3/4"	0-2 3/4"	2 1/2"	1 3/4"	3 3/4"	300 ft/lbs	16,000 lbs	SG6619103	106.40	93.95
7/8"	0-3 1/2"	3"	2 3/8"	4 1/4"	500 ft/lbs	21,800 lbs	SG6619104	157.59	135.95

1256

TECO 52 Pc. Machinist Clamping Set

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

Set Contains:

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



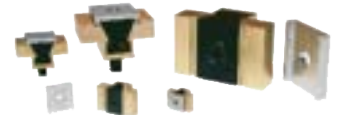
Order No.	Regular Price	SALE
SG6012625CKUS	175.10	148.95

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

25209

MILLER HITE Machinable Uniforce Clamps

- The compact Uniforce® clamp is available with extra material on the clamping jaws so it can be machined to conform to the shape of your workpiece - enabling you to fixture unusual applications easily
- The specially designed steel wedge spreads the clamping force uniformly on both sides of the 7075-T6 aluminum channel
- *A: The distance needed between workpieces for clamp clearance, drill and tap mounting holes on the center of "A" dimension
- †F: The amount of machinable stock on jaws
- **H: Mounting screws included
- NOTE: Locking plate properly expands the clamp, while making it rigid for machining - Machine to a slip fit on workpiece - Remove locking plate before clamping workpiece



Inch												
Thread Size	Clamp Height	Overall Length	Base Width	Contact Depth	Machinable Stock	Centerline Distance	Outer Edge Screw	Overall Width	Holding Force	Order No.	Regular Price	SALE
#8-32	1/2"	.620"	.420"	.0250"	.0180"	.400"	#2-56	1.125"	500 lbs	SG7060050	24.21	21.95
#8-32	.500"	.920"	.420"	.02500"	.01800"	.380"	#2-56	1.125"	500 lbs	SG7060055	19.00	16.95
1/4"-20	3/4"	.940"	.632"	.0370"	.0260"	.0625"	#6-32	1 1/2"	1,500 lbs	SG7060075	25.60	23.50
1/4"-20	.750"	.940"	.632"	.03700"	.02600"	.260"	#6-32	1.500"	1,500 lbs	SG7060080	19.72	17.95
5/16"-18	1"	1.1/4"	.820"	.0500"	.0390"	.0812"	#6-32	2"	2,000 lbs	SG7060100	35.33	31.95
5/16"-18	1"	1.250"	.820"	.05000"	.03900"	.390"	#6-32	2"	2,000 lbs	SG7060105	28.33	25.95
1/2"-13	1 1/2"	1.870"	1.215"	.0750"	.0620"	1.200"	#10-32	3"	3,500 lbs	SG7060150	97.90	89.95
1/2"-13	1.500"	1.870"	1.215"	.07500"	.06200"	.620"	#10-32	3"	3,500 lbs	SG7060153	88.79	80.95
5/8"-11	2"	2.500"	1.625"	1"	.0800"	1.625"	1/4"-20	4"	6,000 lbs	SG7060200	160.42	146.95
5/8"-11	2"	2.500"	1.625"	1.0000"	.08000"	.800"	1/4"-20	4"	6,000 lbs	SG7060203	144.82	132.95

Metric												
Thread Size	Clamp Height	Overall Length	Base Width	Contact Depth	Machinable Stock	Centerline Distance	Outer Edge Screw	Overall Width	Holding Force	Order No.	Regular Price	SALE
M4	12.7 mm	15.7 mm	10.67 mm	6.3mm	4.6mm	4.6 mm	M2	28.6 mm	1,640 lbs	SG7080050	24.21	21.95
M4	12.7 mm	15.7 mm	10.67 mm	6.3mm	4.6mm	4.6 mm	M2	28.6 mm	1,640 lbs	SG7080055	19.00	16.95
M6	19.1 mm	23.9 mm	16.05 mm	9.4mm	6.6mm	6.6 mm	M4	38.1 mm	4,930 lbs	SG7080075	25.60	23.50
M6	19.1 mm	23.9 mm	16.05 mm	9.4mm	6.6mm	6.6 mm	M4	38.1 mm	4,930 lbs	SG7080080	19.72	17.95
M8	25.4 mm	31.8 mm	20.83 mm	12.7mm	9.9mm	9.9 mm	M4	50.8 mm	8,230 lbs	SG7080100	35.33	31.95
M8	25.4 mm	31.8 mm	20.83 mm	12.7mm	9.9mm	9.9 mm	M4	50.8 mm	8,230 lbs	SG7080105	28.33	25.95
M16	50.8 mm	63.5 mm	41.28 mm	25.4mm	20.3mm	20.3 mm	M6	50.8 mm	19,750 lbs	SG7080200	160.42	146.95
M16	50.8 mm	63.5 mm	41.28 mm	25.4mm	20.3mm	20.3 mm	M6	50.8 mm	19,750 lbs	SG7080205	144.82	132.95
M12	38.1 mm	47.5 mm	30.86 mm	19.1mm	15.7mm	15.7 mm	M5	76.2 mm	11,520 lbs	SG7080150	97.90	89.95
M12	38.1 mm	47.5 mm	30.86 mm	19.1mm	15.7mm	15.7 mm	M5	76.2 mm	11,520 lbs	SG7080155	88.79	80.95

1393

MACHINERY



JET 17" & 22" Industrial Floor Model Drill Presses

Features:

- Spindle is supported by high quality ball bearings
- Hinged metal belt and pulley cover coupled with quick adjustment motor mount allows rapid changing of spindle speeds
- Large Hand Grips designed with the users comfort in mind
- Rotating, 45° tilting, crank-operated worktable with quick release clamp
- A 1/2" diameter external positive depth stop with three nut locking feature for quick adjustment
- Adjustable tension spindle return spring
- Drill chuck and key attach to the side of the drill press always within reach of the operator
- On/Off switch located on front of the drill press head
- Heavy duty construction Cast Iron table and base
- Table ground for accuracy
- 2 Year Warranty

Standard Equipment:

- LED Machine Lamp
- Ground Table
- Spindle Safety Guard
- Drill Chuck and Key



Model No	Drilling Capacity	Spindle Taper	Minimum Spindle Speed	Maximum Spindle Speed	Spindle Travel	Table Width	Table Length	Horsepower	Voltage	Phase	Weight	Order No.	Regular Price	SALE
IDP-17	5/8" Mild Steel	2MT	350 RPM	2,800 RPM	3 5/16"	14"	14"	1 hp	115 V/230 V	1 Phase	276 lbs	PY60354300	2182.57	2158.95
IDP-22	1" Mild Steel	3MT	175 RPM	3,050 RPM	4 13/16"	18-5/8"	16-1/8"	1 1/2 hp	115 V/230 V	1 Phase	364 lbs	PY60354301	2676.97	2639.95

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

5901

PRM 7" x 12" Horizontal/Vertical Portable Bandsaw

Medium Duty Non-Production

Features:

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

Standard Equipment:

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



Model No	Capacity	Blade Speeds	Blade Length	Blade Width	Horsepower	Voltage	Phase	Weight	Order No.	Regular Price	SALE
UC180AJ	7" x 12"	86, 132, 178, 260 SFPM	7' 9"	3/4"	3/4 hp	110 V/220 V	1 Phase	286 lbs	RF80UC180AJ	1663.90	1295.95

F.O.B. Warren, MI • Ships By Truck

6168

PDM Heavy Duty 8" Bench Grinder**Features:**

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



Order No.	Regular Price	SALE
PR738	221.45	198.95

F.O.B. Warren, MI

6215

PDM 6" Heavy Duty Bench Grinder**Features:**

- Adjustable tool rest, spark arrestors and eye shields
- Locking toggle on/off switch
- One 36 grit and one 60 grit grinding wheel
- CSA listed, OSHA compliant

Machine Specs:

- Motor 1/3 HP, 115/230V, 1PH
- 3,450 RPM
- 6 x 3/4 x 1/2 Wheel Size
- Weight: 32 lbs
- 1 Year Parts Warranty



Order No.	Regular Price	SALE
PR736	221.34	198.95

F.O.B. Warren, MI

6159

PDM 2" x 48" Belt Sander**Machine Specs:**

- 3/4HP 120/240V 1PH Motor
- 4,500 RPM
- Guarding OSHA & ANSI Compliant
- Front Mounted On/Off Paddle Switch
- Weight: 56 lbs
- 1 Year Parts Warranty



Order No.	Regular Price	SALE
PR72248	595.60	535.95

F.O.B Warren, MI - UPS Dimensional Weight shipping rates apply

6143

IR Ingersoll Rand 1/3 hp. Rt. Angle Grinder 302B

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



Type	Type of Power	Collet/Chuck	Handle Type	Maximum RPM	Exhaust Type	Order No.	Regular Price	SALE
Air Die Grinder	Air	1/4"	Right Angle	20,000	Rear	PR54302B	221.45	146.95

30889

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



Order No.	Regular Price	SALE
KE5316102	27.67	20.95
KE5310150A	36.03	26.95

25077

LOCTITE 242 Removable Threadlocker

- Well suited for fasteners between 1/4" to 3/4" diameter (6 to 20mm)
- Provides controlled lubricity for accurate clamp loads when applied to threaded components before assembly
- Allows parts and components to be separated using hand tools
- One component acrylic adhesive requires no mixing
- Positive fluorescence under UV light



Container Size	Order No.	Regular Price	SALE
10 ml	LM5024221	22.90	14.95
50 ml	LM5024231	63.69	41.95

23724



Watch Cap- Supera Two Layer Grey Knit Kermel / Viscose, FR & Arc Flash, Nfpa 70E Compliant, Cat2

- Designed for maximum comfort and all-day wear.
- Two-layer Kermel-viscose blend.
- Fire Resistant material that is launderable.
- NFPA 70E compliant and CAT2; Ebt 16 cal/cm2.



Type	Color	Fits Hat Size	Material	Order No.	Regular Price	SALE
Watch Cap	Grey	One Size	FR SOFT FABRIC	SG0273720	27.81	19.95

30864

PRICES EFFECTIVE JANUARY 1ST THROUGH MARCH 31ST, 2025

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