FEATURING ON PAGE 2

THROWAWAY
DEBURRING TOOLS

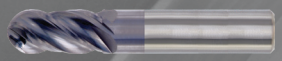
LIGHT AND HEAVY DUTY

SHAVIV
Leading Deburring Solutions

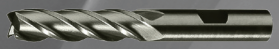
SEE PAGES 8-9

CLEVELAND

HP 3 Flute Carbide End Mills for Aluminimum


4 Flute Variable Ball Nose End Mills

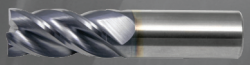
Cobalt 2 Flute End Mills


Cobalt 4 Flute TiCN Coated End Mills

Cobalt 4 Flute End Mills

HSS 4 Flute TiCN Coated End Mills

2 Flute Cobalt End Mills TiN Coated


Solid Carbide 4 Flute Variable Index AP/MAX Coated

5 Flute Variable Solid Carbide End Mills

40% OFF

STANLEY

50 Gallon Mobile Tool Chest

PAGE 32

Starrett

EC799 Electronic Caliper

PAGE 39

MCR SAFETY

9673 UltraTech® Foam Gloves

PAGE 52

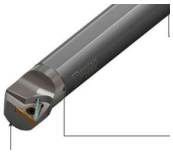
CRESCENT Wiss

Snips

PAGE 34

Prices Effective January 1 through March 31, 2022

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 Diam. Machine Side (DCONMS)	Overall Length (OAL)	Min. Bore Diameter (DMIN)	Master Insert Identification (MIID)	Order No.	Regular Price	SALE
3/8"	6"	0.396"	CCMT2151	**FL4559595**	268.39	**241.66**
1/2"	5"	0.55"	CCMT2151	**FL4559599**	277.43	**249.80**
1/2"	8"	0.55"	CCMT2151	**FL4559603**	365.35	**328.96**
5/8"	6"	0.74"	CCMT3252	**FL4559623**	350.22	**315.33**
5/8"	10"	0.74"	CCMT3252	**FL4559627**	503.67	**453.49**
3/8"	6"	0.396"	CPMT2151	**FL4559635**	268.39	**241.66**
1/2"	8"	0.55"	CPMT2151	**FL4559643**	365.35	**328.96**
5/8"	6"	0.74"	CPMT2151	**FL4559647**	350.22	**315.33**
5/8"	6"	0.74"	CPMT3252	**FL4559663**	350.22	**315.33**
5/8"	10"	0.74"	CPMT3252	**FL4559667**	503.67	**453.49**
3/8"	6"	0.456"	TCMT2151	**FL4559763**	268.39	**241.66**
1/2"	5"	0.587"	TCMT2151	**FL4559767**	277.43	**249.80**
1/2"	8"	0.587"	TCMT2151	**FL4559771**	365.35	**328.96**
5/8"	10"	3/4"	TCMT2151	**FL4559779**	503.67	**453.49**
1"	8"	1.2"	CCMT3252	**FL4559971**	860.98	**775.20**
3/4"	7"	0.93"	TCMT3252	**FL4560027**	548.72	**494.06**
3/4"	10"	0.93"	TCMT3252	**FL4560029**	709.14	**638.49**

23085

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	419.78	**298.39**

8744

Set E - Deburring Sets

Heavy DeBurr

- Rugged deburring set for heavy-duty deburring of holes, slots and edges
- Supports all E blades
- Deburrs steel, aluminum copper, brass, cast iron, and plastics

SAVE 35%

Included	Order No.	Regular Price	SALE
Plastic Handle / E100, E200, E300 Blades	**FN50E**	20.81	**13.80**
Mango II Handle / E100, E200, E300	**FN50EMAN2**	20.81	**13.80**

24918

Freakin' Beacon™ Flasher

- 5 COLORS: Red, Blue, Amber, White and Green
- Green color runs 36 hrs. on steady, 144 hrs. on flash.
- Blue color runs 48 hrs. on steady, 192 hrs. on flash.
- Red, Amber, White colors run on 65 hrs. on steady, 200 hrs. on flash.
- Uses 2 AAA batteries (not included)
- Class I, Div 1
- Waterproof IP67
- 3M Dual Lock included

Replacement Blades - Style E

SAVE 35%

Noga Equivalent	Blade Type	Application	Order No.	Regular Price	SALE
S10	E100	The basic blade used for steel & Aluminum	**FN50E100**	3.46	**2.30**
S10TiN	E100P	Same as E100 blade with TiN coating for extended life when deburring exotic & abrasive materials	**FN50E100P**	5.19	**3.44**
None	E100C	Solid carbide blade similar to E100, for extra hard applications	**FN50E100C**	11.16	**7.40**
S101	E110	Heavy duty blade for steel & Aluminum with special design for versatility	**FN50E110**	3.52	**2.34**
None	E111	Can deburr a minimum hole Diameter of 1.5 mm	**FN50E111**	3.52	**2.34**
S20	E200	-	**FN50E200**	3.46	**2.30**
None	E200P	Same as E200 blade with TiN coating for extended life when deburring exotic & abrasive materials	**FN50E200P**	5.19	**3.44**
None	E200C	Solid carbide blade similar to E200, for extra hard applications	**FN50E200C**	11.16	**7.40**
S30	E300	Removes external & internal burrs simultaneously from holes drilled into tubing and sheet metal	**FN50E300**	4.42	**2.93**
None	E320	Same as E300 exceept for Brass & Cast Iron	**FN50E320**	4.42	**2.93**
S35	E350	Expecially handy for straigh edges, keyways, etc.	**FN50E350**	3.46	**2.30**
S60	E600	Heavy duty HSS internal blade. Facilitates deburring in the most inaccessible locations	**FN50E600**	5.08	**3.37**
None	E700	Ideal for removing burrs from Plastic workpieces	**FN50E700**	4.53	**3.01**

10597

6-Flute Chatterless Countersink Sets

High Speed Steel • 60º, 82º, and 90º

SAVE 30%

	60 Degrees			82 Degrees			90 Degrees		
Diameter Range	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"|5/16"|3/8"|1/2"|5/8"|3/4"|7/8"|1"	**BC55R20060**	155.36	**85.34**	**BC55R20082**	155.36	**85.34**	**BC55R20090**	155.36	**85.34**
3/16"|1/4"|5/16"|3/8"|1/2"|5/8"|3/4"|7/8"|1"|1-1/4"|1-1/2"	**BC55R21060**	293.03	**160.97**	**BC55R21082**	293.03	**160.97**	**BC55R21090**	293.03	**160.97**

10288

Throwaway Deburring Tools

- A handy tool to clip to your pocket and carry around with you
- Available with the standard B10 blade for lighter jobs or with the heavy duty E100 blades for tougher jobs

SAVE 35%

Application	Included	Order No.	Regular Price	SALE
Heavy Duty Deburring	Hexagonal Handle / E100 Blade	**FN50VB1**	6.11	**4.05**
Light Duty Deburring	Hexagonal Handle / B10 Blade	**FN50VB2**	5.82	**3.86**

10606

- Light visible from 1000+ feet
- Drop rated to 2 meters
- Optional helmet band for metal, plastic and spring clips
- Limited Lifetime warranty
- LENGTH: 2.7" WIDTH: 2.6" HEIGHT: 1.5"

new product

			Metal Clasp			Plastic Spring			Plastic Solid			Magnet		
LED Color	Lumens Range	Battery Size	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Amber	25/strobe	AAA	**KN0171000A**	64.31	**53.37**	**KN0171010A**	64.31	**53.37**	**KN0171020A**	64.31	**53.37**	**KN0171030A**	64.31	**53.37**
Blue	25/strobe	AAA	**KN0171000B**	64.31	**53.37**	**KN0171010B**	64.31	**53.37**	**KN0171020B**	64.31	**53.37**	**KN0171030B**	64.31	**53.37**
Green	25/strobe	AAA	**KN0171000G**	64.31	**53.37**	**KN0171010G**	64.31	**53.37**	**KN0171020G**	64.31	**53.37**	**KN0171030G**	64.31	**53.37**
Red	25/strobe	AAA	**KN0171000R**	64.31	**53.37**	**KN0171010R**	64.31	**53.37**	**KN0171020R**	64.31	**53.37**	**KN0171030R**	64.31	**53.37**
White	25/strobe	AAA	**KN0171000W**	64.31	**53.37**	**KN0171010W**	64.31	**53.37**	**KN0171020W**	64.31	**53.37**	**KN0171030W**	64.31	**53.37**

29684

Heavy Duty Duct Tape

- Double-Thick Adhesive: Grips smooth, rough and uneven surfaces
- Tough, Reinforced Backing: The tight weave contributes to the strength, but Gorilla Tape can still be torn by hand.
- Rugged, Weather-Resistant Shell: Withstands moisture, UV rays and temperature changes

new product

Width	Length	Thickness	Color	Order No.	Regular Price	SALE
1 in	30 ft	17 mil	Black	**GR3266101**	4.68	**3.42**
1.88 in	9 yd	17 mil	Camo	**GR3210902**	10.02	**7.34**
1.88 in	10 yd	17 mil	White	**GR3210001**	8.03	**6.27**
1.88 in	12 yd	17 mil	Black	**GR3260124**	8.02	**6.27**
1.88 in	30 yd	17 mil	Black	**GR3203002**	21.43	**17.78**
1.88 in	30 yd	17 mil	Silver	**GR3273502**	21.42	**17.78**
1.88 in	30 yd	17 mil	White	**GR3225002**	14.73	**12.22**
1.88 in	35 yd	17 mil	Orange	**GR3204002**	17.40	**15.29**
1.88 in	35 yd	17 mil	Silver	**GR3274003**	14.73	**12.94**
2.88 in	25 yd	17 mil	White	**GR3225302**	21.43	**17.78**

29593

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

new product

Order No.	Regular Price	SALE
PR0450005	109.04	**62.00**

28815

STANLEY 31-1/2"W 5 Drawer Mobile Workbench

- MDF Work Surface is removable and reversible
- Includes a Power Strip with Three Outlets to charge batteries and accessories
- 50 lb. Full-Extension Ball-Bearing Drawer Slides
- 4" x 2" Casters Support 500 lbs.; two lock and swivel
- Keyed Internal Locking System
- Molded Top Includes a Power Tool Holster and Compartments to organize small parts
- Additional Storage under the work surface
- Screwdriver Storage Along the Back holds tools in an upright position

new product

Height	Width	Depth	Caster Diam.	Color	Load Capacity	ManufacturerNo	Order No.	Regular Price	SALE
33.25"	31.5"	21.75"	4"	Black	500 lbs	STST23151BK	**KP436048**	514.29	**414.31**

Ships common carrier or Purolator dimensional rate

29390

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

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

Standard Pack	Color	Feature	Abrasive Material	Grade	Order No.	Regular Price	SALE
20	Green	Scouring	Aluminum Oxide	Very Fine	**SP22HP69GNVFNA**	1.37	**1.14**
20	Light Gray	Cleaning	Silicon Carbide	Ultra Fine	**SP22HP69GYUFNS**	1.45	**1.14**
20	Maroon	General Purpose	Aluminum Oxide	Very Fine	**SP22HP69MAVFNA**	1.30	**1.02**
20	Tan	Heavy Duty	Aluminum Oxide	Medium	**SP22HP69TNMEDA**	2.81	**2.29**

25138

PRO CHECK Loupe Magnifiers with LED & UV Light

- Metal frame body
- Distortion free lenses
- LED and UV lighted lens
- 20X lenses
- Leather case included
- 1 Year Warranty

Magnification	Order No.	Regular Price	SALE
20X	**PC22L20XLUV**	80.60	**64.90**
10X	**PC22PC22L10XLUV**	66.71	**53.72**

4662

TE-CO 52 Pc. Machinist Clamping Set

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

Set Contains:

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

Order No.	Regular Price	SALE
SG6012625CKUS	206.64	**166.37**

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

25209

LENOX Classic™ Bandsaw Blades

The Ultimate Multi-Purpose Blade

- Shadow gullets for increased beam strength
- Patented Tuff Tooth™ design for strip resistance
- M-42 high speed steel tooth edge for durability

Applications:

- Carbon steels
- Light alloy steels
- Mold steels
- Tool steels
- Stainless steels

Length	Width (W)	Thickness (H)	Teeth per Inch (TPI)	Order No.	Regular Price	SALE
11' 3"	1"	0.035"	6/8 VT	**FX9000119**	100.51	**80.65**
10'	1"	0.035"	8/12 VT	**FX9000181**	89.15	**71.50**
11' 6"	1"	0.035"	6/8 VT	**FX9010160**	100.51	**80.65**
12' 6"	1"	0.035"	6/8 VT	**FX9010280**	108.07	**86.74**
10'	1"	0.035"	6/8 VT	**FX9034274**	89.15	**71.50**
11' 6"	1"	0.035"	10/14 VT	**FX9080816**	100.51	**80.65**
12' 6"	1"	0.035"	10/14 VT	**FX9010019310**	-	

Other sizes offered call for availability

23698

RAPIDKUT® DCLNR/L Toolholders

SAVE 30%

- For turning, facing or contouring
- 95º lead angle
- Uses CNMG, CNMA, CNMP, CNGA or CNMM 80º diamond inserts
- Right hand shown, left hand opposite

Left Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4″	3/4″	4 1/2″	1.3″	1″	CN-432	PBCL4	DCLN-L124B	**ME2420245**	103.65	**68.77**
1″	1″	6″	1.6″	1-1/4″	CN-432	PBCL4	DCLN-L164D	**ME2420265**	110.83	**73.53**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	CN-432	PBCL4	DCLN-L204D	**ME2420285**	125.05	**82.96**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	CN-543	PBCL5	DCLN-L205D	**ME2420325**	141.48	**93.87**
1 1/4″	1 1/4″	6″	1.8″	1-1/2″	CN-643	PBCL6	DCLN-L206D	**ME2420345**	143.06	**94.91**
2 1/2″	1 1/2″	6″	1.8″	2″	CN-543	PBCL5	DCLN-L245D	**ME2420365**	160.10	**106.22**
2 1/2″	1 1/2″	6″	1.8″	2″	CN-643	PBCL6	DCLN-L246D	**ME2420385**	163.15	**108.24**

Right Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4″	3/4″	4 1/2″	1.3″	1″	CN-432	PBCL4	DCLN-R124B	**ME2420240**	103.65	**68.77**
1″	1″	6″	1.6″	1-1/4″	CN-432	PBCL4	DCLN-R164D	**ME2420260**	110.83	**73.53**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	CN-432	PBCL4	DCLN-R204D	**ME2420280**	125.05	**82.96**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	CN-543	PBCL5	DCLN-R205D	**ME2420320**	141.48	**93.87**
1 1/4″	1 1/4″	6″	1.8″	1-1/2″	CN-643	PBCL6	DCLN-R206D	**ME2420340**	143.06	**94.91**
2 1/2″	1 1/2″	6″	1.8″	2″	CN-543	PBCL5	DCLN-R245D	**ME2420360**	160.09	**106.21**
2 1/2″	1 1/2″	6″	1.8″	2″	CN-643	PBCL6	DCLN-R246D	**ME2420380**	163.15	**108.24**

9269

RAPIDKUT® DDJNR/L Toolholders

- For turning and profiling
- 3º lead angle
- Uses DNMG, DNMA, DNMP, DNGA or DNMM 55º diamond inserts
- Right hand shown, left hand opposite

Left Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4″	3/4″	4 1/2″	1.77″	1″	DN-432	PBCL4	DDJN-L124B	**ME2421245**	117.80	**83.73**
1″	1″	6″	1.6″	1-1/4″	DN-432	PBCL4	DDJN-L164D	**ME2421263**	144.92	**103.01**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	DN-432	PBCL4	DDJN-L204D	**ME2421285**	161.62	**114.88**

Right Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4″	3/4″	4 1/2″	1.77″	1″	DN-432	PBCL4	DDJN-R124B	**ME2421240**	117.80	**83.73**
1″	1″	6″	1.6″	1-1/4″	DN-432	PBCL4	DCLN-R164D	**ME2421260**	144.92	**103.01**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	DN-432	PBCL4	DDJN-R204D	**ME2421280**	161.62	**114.88**

9270

RAPIDKUT® DSDNR/L Toolholders

- For turning and chamfering
- 45º Cutting angle
- 0º Lead
- Uses SNMA, SNMG, SNMP, SNG or SNU inserts
- Right hand shown, left hand opposite

Left Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
1″	1″	6″	1.44″	1-1/4″	SN-432	PBCL4	DSDN-L164D	**ME2421305**	134.01	**95.26**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	SN-543	PBCL5	DSDN-L205D	**ME2421325**	171.49	**121.91**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	SN-643	PBCL6	DSDN-L206D	**ME2421345**	179.71	**127.74**
2 1/2″	1 1/2″	6″	1.8″	2″	SN-543	PBCL5	DSDN-L245D	**ME2421365**	200.26	**142.35**
2 1/2″	1 1/2″	6″	1.8″	2″	SN-643	PBCL6	DSDN-L246D	**ME2421385**	200.26	**142.35**

Right Hand										
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
1″	1″	6″	1.44″	1-1/4″	SN-432	PBCL4	DSDN-R164D	**ME2421300**	134.01	**95.26**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	SN-543	PBCL5	DSDN-R205D	**ME2421320**	171.49	**121.91**
1 1/4″	1 1/4″	6″	1.6″	1-1/2″	SN-643	PBCL6	DSDN-R206D	**ME2421340**	179.71	**127.74**
2 1/2″	1 1/2″	6″	1.8″	2″	SN-543	PBCL5	DSDN-R245D	**ME2421360**	200.26	**142.35**
2 1/2″	1 1/2″	6″	1.8″	2″	SN-643	PBCL6	DSDN-R246D	**ME2421380**	200.26	**142.35**

9271

RAPIDKUT® DTJNR/L Toolholders

- For turning and profiling
- 3º lead angle
- Uses TNMA, TNMG, TNMP, TNGA, TNMM, TNG or TNU inserts
- Right hand shown, left hand opposite

SAVE 30%

							Left Hand			Right Hand		
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1″	1″	6″	1″	1-1/4″	TN-332	PBCL3	**ME2421405**	114.01	**75.64**	**ME2421400**	114.01	**75.64**
1″	1″	6″	1″	1-1/4″	TN-432	PBCL4	**ME2421425**	114.01	**75.64**	**ME2421420**	114.01	**75.64**
1 1/4″	1 1/4″	6″	1″	1-1/2″	TN-543	PBCL5	**ME2421445**	144.51	**95.87**	**ME2421440**	144.51	**95.87**
1 1/4″	1 1/4″	6″	1″	1-1/2″	TN-643	PBCL5	**ME2421465**	147.82	**98.07**	**ME2421460**	147.82	**98.07**
2 1/2″	1 1/2″	6″	1″	2″	TN-543	PBCL5	**ME2421485**	163.00	**108.14**	**ME2421480**	163.00	**108.14**
2 1/2″	1 1/2″	6″	1″	2″	TN-643	PBCL6	**ME2421505**	169.35	**112.36**	**ME2421500**	169.35	**112.36**

9272

RAPIDKUT® DWLNR Toolholder

- 95º lead angle
- Uses WNMG, WNMP or WNMA inserts

SAVE 30%

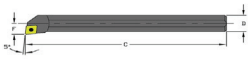
Shank Height (H)	Shank Width (B)	Overall Length (OAL)	Head Length (LH)	Functional Width (WF)	Master Insert Identification (MIID)	Clamping System	Style	Order No.	Regular Price	SALE
3/4″	3/4″	4 1/2″	1″	1″	WN-432	PBCL4	DWLN-R124B	**ME2421520**	103.65	**68.77**
1″	1″	6″	1″	1-1/4″	WN-432	PBCL4	DWLN-R164D	**ME2421540**	107.24	**71.15**
1 1/4″	1 1/4″	6″	1″	1-1/2″	WN-432	PBCL4	DWLN-R204D	**ME2421560**	127.18	**84.38**

9302

ULTRA-DEX Positive 80º Diamond -5º Lead Boring Bars Coolant Thru

Steel Bars ▪ 4:1 Ratio

- Right hand shown



Right Hand								
Connection Diam. Machine Side (DCONMS)	Master Insert Identification (MIID)	Min. Bore Diam. (DMIN)	Functional Width (WF)	Overall Length (OAL)	ManufacturerNo	Order No.	Regular Price	SALE
1/4″	CDGW 1.510	.312″	.172″	3-1/2″	957-000-003	**FG550848**	113.77	**87.29**
0.312″	CPMT 1.81.20.5	.395″	.219″	3-1/2″	957-000-011	**FG550719**	113.77	**87.29**
3/8″	CCMT 21.51	.460″	.250″	5″	957-000-021	**FG550726**	123.32	**94.62**
3/8″	CPMT 21.51	.460″	.250″	5″	957-000-025	**FG550720**	123.32	**94.62**
1/2″	CCMT 21.51	.600″	.312″	6″	957-000-050	**FG550727**	134.34	**103.07**
1/2″	CPMT 21.51	.600″	.312″	6″	957-000-056	**FG550721**	134.34	**103.07**
1/2″	CCMT 32.51	.625″	.344″	6″	957-000-052	**FG550885**	134.34	**103.07**
1/2″	CPMT 32.51	.625″	.344″	6″	957-000-058	**FG550890**	134.34	**103.07**
5/8″	CCMT 21.51	.760″	.406″	7″	957-000-085	**FG550728**	165.94	**127.32**
5/8″	CPMT 21.51	.760″	.406″	7″	957-000-089	**FG550722**	165.94	**127.32**
5/8″	CCMT 32.51	.760″	.406″	7″	957-000-086	**FG550729**	165.94	**127.32**
5/8″	CPMT 32.51	.760″	.406″	7″	957-000-090	**FG550723**	165.94	**127.32**
3/4″	CCMT 32.51	.920″	.500″	7″	957-000-107	**FG550730**	194.33	**149.10**
3/4″	CPMT 32.51	.920″	.500″	7″	957-000-109	**FG550724**	194.33	**149.10**
1″	CCMT 32.51	1.185″	.625″	8″	957-000-134	**FG550731**	255.93	**196.37**
1″	CPMT 32.51	1.185″	.625″	8″	957-000-136	**FG550725**	255.93	**196.37**
1-1/4″	CCMT 431	1.465″	.765″	14″	957-000-185	**FG550732**	401.29	**307.89**
1-1/2″	CCMT 431	1.730″	.890″	14″	957-000-199	**FG550733**	453.46	**347.92**

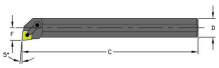
Left Hand								
Connection Diam. Machine Side (DCONMS)	Master Insert Identification (MIID)	Min. Bore Diam. (DMIN)	Functional Width (WF)	Overall Length (OAL)	ManufacturerNo	Order No.	Regular Price	SALE
1/4″	CDGW 1.510	.312″	.172″	3-1/2″	957-000-001	**FG550846**	113.77	**87.29**
5/16″	CPMT 1.81.20.5	.340″	-	3-1/2″	A05GS-CLPL18	**FG550853**	113.77	**87.29**
3/8″	CCMT 21.51	.460″	.250″	5″	957-000-019	**FG550861**	123.32	**94.62**
3/8″	CPMT 21.51	.460″	.250″	5″	957-000-023	**FG550864**	123.32	**94.62**
1/2″	CCMT 21.51	.600″	.312″	6″	957-000-047	**FG550881**	134.34	**103.07**
1/2″	CPMT 21.51	.600″	.312″	6″	957-000-053	**FG550886**	134.34	**103.07**
1/2″	CCMT 32.51	.625″	.344″	6″	957-000-049	**FG550883**	134.34	**103.07**
1/2″	CPMT 32.51	.625″	.344″	6″	957-000-055	**FG550888**	134.34	**103.07**
5/8″	CCMT 21.51	.760″	.406″	7″	957-000-083	**FG550907**	165.94	**127.32**
5/8″	CPMT 21.51	.760″	.406″	7″	957-000-087	**FG550909**	165.94	**127.32**
5/8″	CCMT 32.51	.760″	.406″	7″	957-000-084	**FG550908**	165.94	**127.32**
5/8″	CPMT 32.51	.760″	.406″	7″	957-000-088	**FG550910**	165.94	**127.32**
3/4″	CCMT 32.51	.920″	.500″	7″	957-000-106	**FG550921**	194.33	**149.10**
3/4″	CPMT 32.51	.920″	.500″	7″	957-000-108	**FG550922**	194.33	**149.10**
1″	CCMT 32.51	1.185″	.625″	8″	957-000-133	**FG550943**	255.93	**196.37**
1″	CPMT 32.51	1.185″	.625″	8″	957-000-135	**FG552002**	255.93	**196.37**
1-1/4″	CCMT 431	1.465″	.765″	14″	957-000-183	**FG550984**	401.29	**307.89**
1-1/2″	CCMT 431	1.730″	.890″	14″	957-000-198	**FG550996**	453.46	**347.92**

9572

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

Steel Bars ▪ 4:1 Ratio

- Right hand shown



Right Hand								
Connection Diameter Machine Side (DCONMS)	Master Insert Identification (MIID)	Minimum Bore Diameter (DMIN)	Functional Width (WF)	Overall Length (OAL)	ManufacturerNo	Order No.	Regular Price	SALE
3/4″	CNMG 322	.920″	.500″	8″	957-000-362	**FG551439**	195.07	**149.66**
1″	CNMG 322	1.200″	.640″	10″	957-000-390	**FG551468**	254.48	**195.25**
1″	CNMG 432	1.200″	.640″	10″	957-000-391	**FG551469**	254.48	**195.25**
1-1/4″	CNMG 432	1.470″	.765″	10″	957-000-407	**FG551484**	294.19	**225.72**
1-1/2″	CNMG 432	1.730″	.890″	14″	957-000-430	**FG551505**	427.95	**328.35**
2″	CNMG 432	2.400″	1.281″	16″	957-000-443	**FG551518**	482.45	**370.15**

Left Hand								
Connection Diameter Machine Side (DCONMS)	Master Insert Identification (MIID)	Minimum Bore Diameter (DMIN)	Functional Width (WF)	Overall Length (OAL)	ManufacturerNo	Order No.	Regular Price	SALE
3/4″	CNMG 322	.920″	.500″	8″	957-000-361	**FG551438**	195.07	**149.66**
1″	CNMG 322	1.200″	.640″	10″	957-000-388	**FG551466**	254.48	**195.25**
1″	CNMG 432	1.200″	.640″	10″	957-000-389	**FG551467**	254.48	**195.25**
1-1/4″	CNMG 432	1.470″	.765″	10″	957-000-406	**FG551483**	294.19	**225.72**
1-1/2″	CNMG 432	1.730″	.890″	14″	957-000-429	**FG551504**	427.95	**328.35**
2″	CNMG 432	2.400″	1.281″	16″	957-000-442	**FG551517**	482.45	**370.15**

9564

TETRAMICUT

Valid from October 1, 2021 to March 31, 2022

TUNGALOY ADDFORCE GROOVE
ACCELERATED PARTING AND GROOVING

TCF18 INSERTS AND HOLDERS FOR ***SMALL-DIAMETER FACE GROOVING***

Face grooving insert for ø6 mm minimum groove diameter

BUY 10 inserts AND GET 1 holder at — **60 % additional discount! Promo code: TG126**

BUY 10 inserts AND GET 1 CHP holder at — **40 % additional discount! Promo code: TG126**

JS**-STCFL18

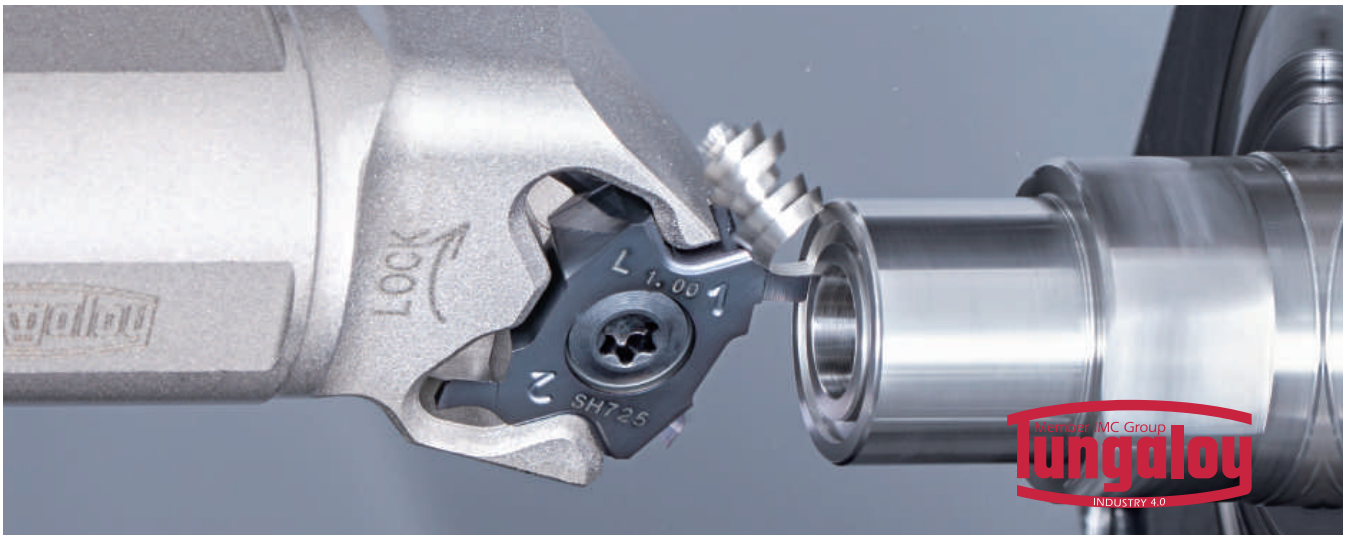
STCFVR**18

STCL**18-CHP

Insert:
TCF18L... (SH725)
CW = 0.5 ~ 2.5 mm (.020" ~ .079")

Toolholder:
JS-STCFL18**
DCONMS = ø16 ~ ø25.4 mm & ø.750" / ø1.00"
STCFVR18**
H = 10 / 12 / 16 mm & .375" / .500" / .625"
STCL18**
H = 10 / 12 / 16 / 20 / 25 mm & .375" / .500" / .625" / .750" / 1.00"
STCL18-CHP**
H = 20 / 25 mm & .750" / 1.00"

TCF18L...
Sharp cutting edge and insert clamping rigidity provide superior surface finish.



M924 Solid Carbide 4 Flute Corner Radius End Mills

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

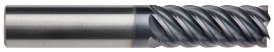
- New AlCrNX engineered coating shown to improve tools life exponentially
- Better performance, longer tool life with optimized rake and relief angles
- Plunge, slot, finish in all kinds of materials
- Cut wet or dry, depending on your tool path and the materials you're machining
- Maximum feeds and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

SAVE 35%

				Corner Radius (RE) - 0.015"			Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	1/2"	1-1/2"	DD4167499	38.63	25.74	-	-	-	-	-	-
3/16"	3/16"	9/16"	2"	DD4167511	51.87	34.57	-	-	-	-	-	-
1/4"	1/4"	3/4"	2-1/2"	DD4167525	58.49	38.96	DD4167526	58.49	38.96	-	-	-
1/4"	1/4"	1-1/4"	3"	DD4167531	69.01	45.99	DD4167532	69.01	45.99	-	-	-
1/4"	1/4"	1-3/4"	4"	DD4167547	82.17	54.75	DD4167548	82.17	54.75	-	-	-
5/16"	5/16"	13/16"	2-1/2"	DD4167099	72.83	48.53	DD4167100	72.83	48.53	-	-	-
3/8"	3/8"	1-1/4"	3"	DD4167133	110.82	73.84	DD4167134	110.82	73.84	-	-	-
3/8"	3/8"	2"	4"	DD4167165	136.68	91.06	DD4167166	136.68	91.06	-	-	-
1/2"	1/2"	5/8"	2-1/2"	-	-	-	DD4167206	134.27	89.46	-	-	-
1/2"	1/2"	1"	3"	DD4167214	136.10	90.68	DD4167215	136.10	90.68	DD4167216	136.10	90.68
1/2"	1/2"	1-1/4"	3"	DD4167223	141.20	94.07	DD4167224	141.20	94.07	DD4167225	141.20	94.07
5/8"	5/8"	3/4"	3"	-	-	-	DD4167278	214.57	142.96	-	-	-
5/8"	5/8"	1-3/8"	3-1/2"	-	-	-	DD4167288	222.35	148.15	DD4167289	222.35	148.15
5/8"	5/8"	2-1/8"	4"	-	-	-	DD4167298	266.85	177.79	DD4167299	312.39	177.79
3/4"	3/4"	1-5/8"	4"	-	-	-	DD4167358	373.34	248.74	DD4167359	373.34	248.74
3/4"	3/4"	2-3/8"	5"	-	-	-	DD4167368	426.50	284.15	-	-	-
1"	1"	1-3/4"	4"	-	-	-	DD4167408	590.52	393.43	DD4167409	590.52	393.43

29997

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



For Hard Materials • Square End

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

SAVE 35%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	1/2"	1-1/2"	5	DD4069052	36.58	24.37
1/8"	1/8"	1/4"	1-1/2"	5	DD4069050	35.94	23.94
3/16"	3/16"	5/16"	2"	5	DD4069054	42.50	28.32
3/16"	3/16"	9/16"	2"	5	DD4069056	43.46	28.96
1/4"	1/4"	3/4"	2-1/2"	6	DD4069058	57.03	38.00
1/4"	1/4"	1-1/4"	3"	6	DD4069061	69.63	46.39
3/8"	3/8"	7/8"	2-1/2"	6	DD4069070	90.24	60.12
3/8"	3/8"	1-1/4"	3"	6	DD4069073	113.07	75.34
3/8"	3/8"	2"	4"	6	DD4069076	142.62	95.02
1/2"	1/2"	1"	3"	6	DD4069079	131.23	87.43
1/2"	1/2"	1-1/4"	3"	6	DD4069083	136.16	90.72
1/2"	1/2"	1-5/8"	3-1/2"	6	DD4069087	172.24	114.76
5/8"	5/8"	1-3/8"	3-1/2"	6	DD4069099	236.99	157.90
3/4"	3/4"	1-5/8"	4"	6	DD4069111	379.90	253.11
3/4"	3/4"	2-5/8"	5"	6	DD4069115	469.17	312.60

22460

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

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

SAVE 35%

				Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"			Corner Radius (RE) - 0.125"					
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	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16"	3/16"	3/8"	2"	DD4463478	63.23	42.14	-	-	-	-	-	-	DD4463476	58.33	38.86
3/16"	3/16"	9/16"	2"	DD4463481	65.04	43.35	-	-	-	-	-	-	DD4463479	60.14	40.06
3/16"	3/16"	3/4"	2-1/2"	DD4463484	82.80	55.17	-	-	-	-	-	-	DD4463482	77.89	51.90
1/4"	1/4"	1/2"	2"	DD4463487	73.22	48.78	DD4463488	77.84	51.85	-	-	-	DD4463485	68.26	45.48
1/4"	1/4"	3/4"	2-1/2"	DD4463491	78.66	52.41	DD4463492	83.27	55.49	-	-	-	DD4463489	86.27	49.10
1/4"	1/4"	1"	3"	DD4463495	97.98	65.28	DD4463496	102.60	68.36	-	-	-	DD4463493	93.02	61.98
3/8"	3/8"	3/4"	2-1/2"	DD4463499	105.11	70.03	DD4463500	109.67	73.06	-	-	-	DD4463497	99.96	66.60
3/8"	3/8"	15/16"	2-1/2"	DD4463504	106.57	71.01	DD4463505	111.18	74.07	-	-	-	DD4463502	101.42	67.56
3/8"	3/8"	1-1/8"	3"	DD4463509	118.82	79.16	DD4463510	123.44	82.25	-	-	-	DD4463507	113.69	75.74
3/8"	3/8"	1-1/2"	3-1/2"	DD4463514	149.48	99.59	DD4463515	154.10	102.67	-	-	-	DD4463512	144.34	96.18
1/2"	1/2"	1"	3"	DD4463517	156.90	104.53	DD4463518	161.51	107.61	DD4463520	171.43	114.21	DD4463516	151.58	100.99
1/2"	1/2"	1-1/4"	3-1/4"	DD4463215	174.08	115.99	DD4463216	178.93	119.21	DD4463218	189.37	126.17	DD4463214	168.48	112.26
1/2"	1/2"	1-1/2"	3-1/2"	DD4463527	190.09	116.87	DD4463528	180.36	120.17	DD4463530	190.29	126.78	DD4463526	170.45	113.56
1/2"	1/2"	1-3/4"	4"	DD4463220	196.81	131.13	-	-	-	DD4463238	211.37	140.83	DD4463219	191.27	127.44
1/2"	1/2"	2"	4"	DD4463537	206.35	137.48	DD4463538	210.97	140.56	DD4463540	220.89	147.17	DD4463536	201.03	133.93
1/2"	1/2"	2-1/4"	4"	DD4463542	227.72	151.71	DD4463543	232.34	154.80	DD4463545	242.26	161.40	DD4463541	222.35	148.15
5/8"	5/8"	1-1/4"	3-1/2"	DD4463547	291.88	194.46	DD4463548	297.15	197.98	DD4463550	308.52	205.55	DD4463546	285.70	190.35
5/8"	5/8"	1-9/16"	4"	DD4463242	321.59	214.26	DD4463244	326.96	217.84	DD4463247	338.24	225.35	DD4463240	315.38	210.12
5/8"	5/8"	1-7/8"	4"	DD4463559	325.83	217.09	DD4463560	331.02	220.54	DD4463562	342.41	228.13	DD4463558	319.51	212.88
5/8"	5/8"	2-3/16"	4-1/2"	DD4463258	374.37	249.43	DD4463262	379.39	252.78	DD4463264	390.93	260.46	DD4463253	367.98	245.16
5/8"	5/8"	2-1/2"	5"	DD4463569	423.65	282.26	DD4463570	428.63	285.57	DD4463571	439.43	292.77	DD4463568	417.65	278.26
3/4"	3/4"	1-1/2"	4"	DD4463573	404.32	269.38	DD4463574	409.50	272.83	DD4463575	420.73	280.31	DD4463572	397.93	265.11
3/4"	3/4"	1-7/8"	4-1/2"	DD4463270	465.96	310.45	DD4463271	471.80	314.34	DD4463275	484.34	322.69	DD4463269	458.05	305.18
3/4"	3/4"	2-1/4"	5"	DD4463586	497.77	331.64	DD4463587	503.12	335.20	DD4463589	514.69	342.93	DD4463585	499.24	332.63
3/4"	3/4"	2-5/8"	5"	DD4463593	517.96	345.10	DD4463594	523.23	348.60	DD4463596	534.75	356.27	DD4463592	511.32	340.66
3/4"	3/4"	3"	6"	DD4463598	600.95	400.38	DD4463599	606.11	403.82	DD4463600	617.30	411.28	DD4463597	594.53	396.11

9795

CLEVELAND Solid Carbide High Performance Ball Nose End Mills

4-Flute ▪ Variable Index ▪ Center Cutting ▪ AP/Max Coated ▪ for Ferrous Materials ▪ Single End
▪ Style #CEM-V-4B-TA

SAVE 45%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8″	1/8″	1-1/2″	3/8″	4	CE60C80108	53.25	29.73
3/16″	3/16″	2″	7/16″	4	CE60C80109	69.00	38.53
1/4″	1/4″	2-1/2″	3/4″	4	CE60C80110	83.80	46.79
5/16″	5/16″	2-1/2″	13/16″	4	CE60C80111	97.77	54.60
3/8″	3/8″	2-1/2″	7/8″	4	CE60C80112	120.14	67.09
7/16″	7/16″	3″	1″	4	CE60C80113	153.62	85.79
1/2″	1/2″	2-1/2″	5/8″	4	CE60C80114	155.29	86.72
1/2″	1/2″	3″	1″	4	CE60C80115	163.24	91.15
5/8″	5/8″	3-1/2″	1-1/4″	4	CE60C80116	262.98	146.84
3/4″	3/4″	4″	1-1/2″	4	CE60C80117	383.47	214.12
1″	1″	5″	2-1/4″	4	CE60C80118	720.02	402.04

29537

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

▪ Style #HG-4C-TC

SAVE 45%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8″	3/8″	2-5/16″	3/8″	4	CE60C33240	47.24	26.63
5/32″	3/8″	2-3/8″	1/2″	4	CE60C33242	47.77	26.92
3/16″	3/8″	2-3/8″	1/2″	4	CE60C33244	43.04	24.27
3/16″	3/8″	3-1/16″	1-1/4″	4	CE60C33406	47.14	26.58
3/16″	3/8″	3-9/16″	1-3/4″	4	CE60C33457	52.27	29.46
7/32″	3/8″	2-7/16″	5/8″	4	CE60C33246	43.63	24.60
7/32″	3/8″	3-1/16″	1-1/4″	4	CE60C33407	57.67	32.51
1/4″	3/8″	2-7/16″	5/8″	4	CE60C33248	43.63	24.60
1/4″	3/8″	3-1/16″	1-1/4″	4	CE60C33408	55.89	31.51
17/64″	3/8″	2-1/2″	3/4″	4	CE60C33249	49.26	27.77
5/16″	3/8″	2-1/2″	3/4″	4	CE60C33252	44.33	24.98
5/16″	3/8″	3-1/8″	1-3/8″	4	CE60C33410	59.95	33.79
21/64″	3/8″	2-1/2″	3/4″	4	CE60C33253	50.73	28.60
11/32″	3/8″	3-1/4″	1-1/2″	4	CE60C33411	54.87	30.94
23/64″	3/8″	2-1/2″	3/4″	4	CE60C33255	49.26	27.77
3/8″	3/8″	4-1/4″	2-1/2″	4	CE60C33463	73.07	41.20
13/32″	3/8″	2-11/16″	1″	4	CE60C33258	62.03	34.96
27/64″	3/8″	2-11/16″	1″	4	CE60C33259	79.30	44.70
7/16″	3/8″	2-11/16″	1″	4	CE60C33260	67.17	37.87
7/16″	1/2″	3-3/4″	1-3/4″	4	CE60C33414	69.76	39.33
15/32″	1/2″	3-1/4″	1-1/4″	4	CE60C33262	68.61	38.67
1/2″	3/8″	2-11/16″	1″	4	CE60C33264	62.10	35.01
1/2″	1/2″	3-1/4″	1-1/4″	4	CE60C33265	60.34	34.02
1/2″	1/2″	4″	2″	4	CE60C33416	78.79	44.41
17/32″	1/2″	3-3/8″	1-3/8″	4	CE60C33266	110.15	62.10
9/16″	1/2″	3-3/8″	1-3/8″	4	CE60C33267	120.73	68.07
5/8″	1/2″	3-3/8″	1-3/8″	4	CE60C33269	108.96	61.43
5/8″	5/8″	3-3/4″	1-5/8″	4	CE60C33270	106.95	60.29
21/32″	5/8″	3-3/4″	1-5/8″	4	CE60C33271	124.43	70.15
11/16″	5/8″	3-3/4″	1-5/8″	4	CE60C33273	124.43	70.15
3/4″	1/2″	3-5/8″	1-5/8″	4	CE60C33275	131.29	74.02
3/4″	3/4″	3-7/8″	1-5/8″	4	CE60C33277	127.43	71.84
3/4″	3/4″	5-1/4″	3″	4	CE60C33418	164.78	92.89
3/4″	3/4″	6-1/4″	4″	4	CE60C33469	203.64	114.81
7/8″	7/8″	4-1/8″	1-7/8″	4	CE60C33283	163.49	92.16
1″	3/4″	4-1/8″	1-7/8″	4	CE60C33288	191.18	107.77
1″	1″	4-1/2″	2″	4	CE60C33290	191.18	107.77

29532

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

▪ Style #HGC-4C-TC

SAVE 45%

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	52.43	29.57
1/4″	3/8″	3-9/16″	1-3/4″	4	CE60C32718	59.52	33.55
9/32″	3/8″	3-1/8″	1-3/8″	4	CE60C32674	51.48	29.02
5/16″	3/8″	3-1/8″	1-3/8″	4	CE60C32675	55.36	31.20
5/16″	3/8″	3-3/4″	2″	4	CE60C32720	66.32	37.39
3/8″	3/8″	3-1/4″	1-1/2″	4	CE60C32677	51.79	29.20
3/8″	3/8″	4-1/4″	2-1/2″	4	CE60C32722	69.51	39.18
7/16″	3/8″	3-3/4″	1-3/4″	4	CE60C32679	66.37	37.41
1/2″	1/2″	3-1/4″	1-1/4″	6	CE60C32634	61.60	34.73
1/2″	1/2″	3-1/4″	1-1/4″	4	CE60C32633	55.66	31.38
5/8″	5/8″	3-3/4″	1-5/8″	4	CE60C32635	109.97	62.00
5/8″	5/8″	4-5/8″	2-1/2″	4	CE60C32682	149.42	84.24
3/4″	3/4″	3-7/8″	1-5/8″	4	CE60C32637	140.61	79.27
3/4″	3/4″	6-1/4″	4″	4	CE60C32728	226.61	127.76
7/8″	7/8″	5-3/4″	3-1/2″	4	CE60C32685	179.63	101.26
1/2″	1/2″	4″	2″	4	CE60C32681	72.76	41.02
1″	1″	4-1/2″	2″	4	CE60C32639	189.11	106.62
1″	1″	6-1/2″	4″	4	CE60C32687	295.97	166.85

29531

CLEVELAND 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

SAVE 45%

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	44.42	24.80
1/8″	1/8″	1-1/2″	3/8″	4	CE60C80003	43.70	24.40
1/8″	1/8″	1-1/2″	1/2″	4	CE60C80005	45.83	25.59
3/16″	3/16″	2″	3/8″	4	CE60C80007	46.20	25.81
3/16″	3/16″	2″	7/16″	4	CE60C80009	50.02	27.93
3/16″	3/16″	2-1/2″	3/4″	4	CE60C80011	61.44	34.30
1/4″	1/4″	2″	1/2″	4	CE60C80013	56.49	31.55
1/4″	1/4″	2-1/2″	3/4″	4	CE60C80015	69.21	38.65
1/4″	1/4″	3″	1-1/8″	4	CE60C80018	75.99	42.43
1/4″	1/4″	3″	1-1/4″	4	CE60C80020	83.20	46.46
5/16″	5/16″	2″	1/2″	4	CE60C80021	85.43	47.70
5/16″	5/16″	2-1/2″	13/16″	4	CE60C80023	92.11	51.44
5/16″	5/16″	3″	1-1/4″	4	CE60C80025	102.47	57.23
3/8″	3/8″	2″	5/8″	4	CE60C80027	93.96	52.46
3/8″	3/8″	2-1/2″	7/8″	4	CE60C80029	101.21	56.52
3/8″	3/8″	3″	1-1/8″	4	CE60C80031	126.23	70.49
3/8″	3/8″	4″	2″	4	CE60C80033	148.97	83.19
7/16″	7/16″	2-1/2″	5/8″	4	CE60C80035	129.71	72.43
7/16″	7/16″	3″	1″	4	CE60C80037	141.48	78.99
7/16″	7/16″	4″	2″	4	CE60C80039	155.91	87.06
1/2″	1/2″	2-1/2″	5/8″	4	CE60C80040	149.33	83.39
1/2″	1/2″	3″	1″	4	CE60C80043	157.85	88.14
1/2″	1/2″	3″	1-1/4″	4	CE60C80048	145.93	81.48
1/2″	1/2″	4″	2″	4	CE60C80054	197.42	110.24
5/8″	5/8″	3″	3/4″	4	CE60C80059	230.53	128.73
5/8″	5/8″	3-1/2″	1-1/4″	4	CE60C80061	257.80	143.95
5/8″	5/8″	5″	2-1/4″	4	CE60C80066	350.62	195.78
3/4″	3/4″	3″	1″	4	CE60C80072	346.07	193.24
3/4″	3/4″	4″	1-1/2″	4	CE60C80074	365.30	203.97
3/4″	3/4″	5″	2-1/4″	4	CE60C80079	510.49	285.05
1″	1″	4″	1-1/2″	4	CE60C80084	618.38	345.30
1″	1″	5″	2-1/4″	4	CE60C80089	756.16	422.22
1″	1″	6″	3″	4	CE60C80094	782.45	436.92

29536

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

- Style #CEM-AM3-ZN

SAVE 45%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8″	1/8″	1-1/2″	3/8″	3	CE60C72341	36.73	20.51
3/16″	3/16″	2″	5/16″	3	CE60C72342	43.95	24.54
3/16″	3/16″	2″	9/16″	3	CE60C72343	48.19	26.91
1/4″	1/4″	2-1/2″	3/4″	3	CE60C72345	61.79	34.49
5/16″	5/16″	3-1/2″	1-1/4″	3	CE60C72349	98.84	55.19
3/8″	3/8″	2″	1/2″	3	CE60C72351	68.69	38.35
3/8″	3/8″	2-1/2″	1″	3	CE60C72352	86.67	48.40
3/8″	3/8″	3-1/2″	1-1/2″	3	CE60C72353	113.27	63.25
1/2″	1/2″	2-1/2″	5/8″	3	CE60C72358	124.57	69.56
1/2″	1/2″	3″	1-1/4″	3	CE60C72359	153.36	85.64
1/2″	1/2″	4″	2″	3	CE60C72360	169.19	94.48
5/8″	5/8″	5″	2-1/2″	3	CE60C72364	345.77	193.08
3/4″	3/4″	3″	1″	3	CE60C72366	316.92	176.96
3/4″	3/4″	4″	5/8″	3	CE60C72367	373.12	208.34

29864

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

- Style #HGC-2

SAVE 45%

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″	2-5/8″	3/4″	2	CE60C75127	28.29	15.95
3/8″	3/8″	2-3/4″	1″	2	CE60C75128	37.88	21.35
3/8″	3/8″	3-1/4″	1-1/2″	2	CE60C75129	44.33	24.98
1/2″	1/2″	2-11/16″	3/16″	2	CE60C75130	38.55	21.74
1/2″	1/2″	3-1/2″	1-1/2″	2	CE60C75131	47.15	26.58
1/2″	1/2″	4″	2″	2	CE60C75132	53.75	30.30
9/16″	9/16″	3-3/8″	1-1/8″	2	CE60C75133	77.12	43.47
5/8″	5/8″	3-3/8″	1-1/8″	2	CE60C75134	74.30	41.88
3/4″	3/4″	3-5/8″	1-5/16″	2	CE60C75135	82.17	46.33
7/8″	7/8″	4″	1-1/2″	2	CE60C75158	120.76	68.08
7/8″	7/8″	4-1/8″	1-1/2″	2	CE60C75159	122.84	69.25
1″	1″	4″	1-1/2″	2	CE60C75160	143.50	80.90
1″	1″	4-1/8″	1-1/2″	2	CE60C75161	138.54	78.11
1″	1″	5-1/2″	3″	2	CE60C75163	186.82	105.32

29862

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

- Style #HGC-4C

SAVE 45%

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	52.02	29.32
9/32″	3/8″	3-1/8″	1-3/8″	4	CE60C32647	44.93	25.34
5/16″	3/8″	3-1/8″	1-3/8″	4	CE60C32648	46.39	26.15
5/16″	3/8″	3-3/4″	2″	4	CE60C32693	56.90	32.08
3/8″	3/8″	3-1/4″	1-1/2″	4	CE60C42857	43.94	24.77
3/8″	3/8″	4-1/4″	2-1/2″	4	CE60C42913	59.21	33.38
7/16″	3/8″	3-3/4″	1-3/4″	4	CE60C32651	56.90	32.08
1/2″	1/2″	4″	2″	4	CE60C42861	61.22	34.52
5/8″	5/8″	3-3/4″	1-5/8″	4	CE60C42703	94.01	53.00
5/8″	5/8″	4-5/8″	2-1/2″	4	CE60C42864	141.76	79.92
3/4″	3/4″	3-7/8″	1-5/8″	4	CE60C42707	119.57	67.41
3/4″	3/4″	6-1/4″	4″	4	CE60C42924	193.12	108.88
7/8″	7/8″	5-3/4″	3-1/2″	4	CE60C32653	151.09	85.18
1″	1″	4-1/2″	2″	4	CE60C42715	161.78	91.20
1″	1″	6-1/2″	4″	4	CE60C42876	263.93	148.79
1-1/2″	1-1/4″	10-1/2″	8″	4	CE60C32698	766.69	432.22
1-1/2″	1-1/4″	10-1/2″	8″	6	CE60C32699	803.20	452.81

29540

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

- Style #HGC-2-TN

SAVE 45%

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″	2-5/8″	3/4″	2	CE60C75137	31.68	17.86
3/8″	3/8″	2-3/4″	1″	2	CE60C75138	42.44	23.93
3/8″	3/8″	3-1/4″	1-1/2″	2	CE60C75139	49.65	27.99
1/2″	1/2″	2-11/16″	3/16″	2	CE60C75140	43.20	24.36
1/2″	1/2″	3-1/2″	1-1/2″	2	CE60C75141	52.80	29.77
1/2″	1/2″	4″	2″	2	CE60C75142	60.21	33.95
9/16″	9/16″	3-3/8″	1-1/8″	2	CE60C75143	86.36	48.69
5/8″	5/8″	3-3/8″	1-1/8″	2	CE60C75144	83.21	46.91
3/4″	3/4″	3-5/8″	1-5/16″	2	CE60C75145	92.02	51.87
7/8″	7/8″	4″	1-1/2″	2	CE60C75167	135.25	76.25
7/8″	7/8″	4-1/8″	1-1/2″	2	CE60C75168	137.59	77.56
1″	1″	4″	1-1/2″	2	CE60C75169	160.73	90.61
1″	1″	4-1/8″	1-1/2″	2	CE60C75170	155.16	87.48
1″	1″	5-1/2″	3″	2	CE60C75172	209.24	117.96

29863

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

- Style #CEM-V2-5R-TA

SAVE 45%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
3/16″	3/16″	2″	3/8″	5	CE60C80525	39.06	21.82
3/16″	3/16″	2″	7/16″	5	CE60C80527	55.05	30.73
3/16″	3/16″	2-1/2″	3/4″	5	CE60C80529	57.71	32.22
1/4″	1/4″	2″	1/2″	5	CE60C80531	53.53	29.90
1/4″	1/4″	2-1/2″	3/4″	5	CE60C80533	72.78	40.63
1/4″	1/4″	3″	1-1/4″	5	CE60C80537	90.81	50.70
5/16″	5/16″	2″	1/2″	5	CE60C80538	81.24	45.36
5/16″	5/16″	2-1/2″	13/16″	5	CE60C80540	81.73	45.63
5/16″	5/16″	3″	1-1/4″	5	CE60C80542	92.26	51.51
3/8″	3/8″	2″	5/8″	5	CE60C80545	89.55	50.00
3/8″	3/8″	2-1/2″	7/8″	5	CE60C80547	94.22	52.60
3/8″	3/8″	3″	1-1/8″	5	CE60C80549	127.49	71.20
3/8″	3/8″	4″	2″	5	CE60C80551	130.78	73.03
7/16″	7/16″	2-1/2″	5/8″	5	CE60C80553	120.75	67.42
7/16″	7/16″	3″	1″	5	CE60C80555	135.98	75.93
7/16″	7/16″	4″	2″	5	CE60C80557	159.23	88.91
1/2″	1/2″	2-1/2″	5/8″	5	CE60C80558	122.14	68.20
1/2″	1/2″	3″	1″	5	CE60C80560	133.22	74.40
1/2″	1/2″	3″	1-1/4″	5	CE60C80565	151.46	84.57
1/2″	1/2″	4″	2″	5	CE60C80571	192.64	107.57
5/8″	5/8″	3″	3/4″	5	CE60C80576	228.94	127.84
5/8″	5/8″	3-1/2″	1-1/4″	5	CE60C80578	243.87	136.17
5/8″	5/8″	5″	2-1/4″	5	CE60C80583	355.07	198.27
3/4″	3/4″	3″	1″	5	CE60C80588	291.85	162.97
3/4″	3/4″	4″	1-1/2″	5	CE60C80590	354.20	197.78
3/4″	3/4″	5″	2-1/4″	5	CE60C80595	454.55	253.81
1″	1″	4″	1-1/2″	5	CE60C80600	571.79	319.28
1″	1″	5″	2-1/4″	5	CE60C80605	688.71	384.57
1″	1″	6″	3″	5	CE60C80610	905.71	505.74

29538

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

VariMill I™ ▪ Series 4V00 ▪ Inch

SAVE 40%

- 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**	38.74	**25.70**
3/16″	3/16″	2-1/4″	5/8″	Round	**WK405576656**	43.28	**28.71**
5/16″	5/16″	2-1/2″	3/4″	Round	**WK405576659**	72.94	**48.39**
1/4″	1/4″	2-1/2″	3/4″	Round	**WK405576658**	60.41	**40.08**
3/8″	3/8″	2-1/2″	7/8″	Round	**WK405576660**	90.01	**59.72**
1/2″	1/2″	3″	1-1/4″	Weldon	**WK405576663**	143.55	**95.24**
1/2″	1/2″	3″	1″	Weldon	**WK405576662**	143.55	**95.24**
5/8″	5/8″	3-1/2″	1-1/4″	Weldon	**WK405576664**	272.31	**180.66**
3/4″	3/4″	4″	1-1/2″	Weldon	**WK405576665**	381.59	**253.16**
1″	1″	4″	1-1/2″	Weldon	**WK405576666**	562.59	**373.24**
1-1/4″	1-1/4″	5″	2-1/4″	Weldon	**WK405576667**	843.87	**559.85**

29415

A Brand® - AE-VMS Advanced Performance Anti-Vibration Carbide End Mills

Square End - Multiple Lengths - Metric Sizes

- List 8205
- Variable Helix
- Center Cutting
- Duarise Coating

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Overall Length (OAL)	Order No.	Regular Price	SALE
3 mm	6 mm	8 mm	4	60 mm	**TP468555830**	60.30	**49.97**
4 mm	6 mm	11 mm	4	60 mm	**TP468555840**	54.87	**45.47**
5 mm	6 mm	13 mm	4	60 mm	**TP468555850**	55.37	**45.89**
6 mm	6 mm	13 mm	4	60 mm	**TP468555860**	52.15	**43.22**
8 mm	8 mm	19 mm	4	70 mm	**TP468555880**	62.40	**51.71**
10 mm	10 mm	22 mm	4	80 mm	**TP468555900**	88.64	**73.44**
12 mm	12 mm	26 mm	4	90 mm	**TP468555920**	129.47	**107.28**
16 mm	16 mm	32 mm	4	100 mm	**TP468555960**	250.31	**207.40**
20 mm	20 mm	40 mm	4	110 mm	**TP468556000**	326.76	**270.76**
25 mm	25 mm	50 mm	4	120 mm	**TP468556010**	522.56	**432.99**

29317

HSS MI GP 2 Flute Single End Mills

High Speed Steel ▪ Center Cutting

- Used for slotting operations in all types of materials

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/8″	3/8″	3/8″	2-5/16″	**MT2343651**	18.61	**13.96**
5/32″	3/8″	7/16″	2-5/16″	**MT2343691**	19.70	**14.77**
3/16″	3/8″	7/16″	2-5/16″	**MT2343652**	19.70	**14.77**
13/64″	3/8″	7/16″	2-5/16″	**MT2343706**	20.42	**15.32**
7/32″	3/8″	1/2″	2-3/8″	**MT2343692**	19.70	**14.77**
15/64″	3/8″	1/2″	2-5/16″	**MT2343707**	20.42	**15.32**
1/4″	3/8″	1/2″	2-5/16″	**MT2343653**	20.46	**15.35**
17/64″	3/8″	9/16″	2-5/16″	**MT2343708**	20.42	**15.32**
9/32″	3/8″	9/16″	2-3/8″	**MT2343693**	20.30	**15.23**
5/16″	3/8″	9/16″	2-5/16″	**MT2343654**	20.42	**15.32**
21/64″	3/8″	9/16″	2-5/16″	**MT2343710**	20.42	**15.32**
11/32″	3/8″	9/16″	2-5/16″	**MT2343694**	20.76	**15.57**
11/64″	3/8″	7/16″	2-3/8″	**MT2343705**	20.42	**15.32**
3/8″	3/8″	9/16″	2-5/16″	**MT2343655**	19.46	**14.59**
23/64″	3/8″	9/16″	2-1/2″	**MT2343711**	20.42	**15.32**
25/64″	3/8″	13/16″	2-1/2″	**MT2343712**	31.80	**23.85**
13/32″	3/8″	13/16″	2-1/2″	**MT2343695**	29.99	**22.49**
27/64″	3/8″	13/16″	2-1/2″	**MT2343713**	31.80	**23.85**
7/16″	3/8″	13/16″	2-1/2″	**MT2343656**	29.31	**21.98**
15/32″	1/2″	13/16″	3″	**MT2343696**	31.80	**23.85**
1/2″	3/8″	13/16″	2-1/2″	**MT2343657**	22.87	**17.16**
1/2″	1/2″	1″	3″	**MT2343658**	27.70	**20.77**
31/64″	1/2″	13/16″	3-1/4″	**MT2343715**	31.80	**23.85**
33/64″	1/2″	1-1/8″	3″	**MT2343716**	38.83	**29.12**
17/32″	1/2″	1-1/8″	3-1/8″	**MT2343697**	34.24	**25.68**
35/64″	1/2″	1-1/8″	3-3/8″	**MT2343717**	38.83	**29.12**
9/16″	1/2″	1-1/8″	3-1/8″	**MT2343659**	35.13	**26.35**
37/64″	1/2″	1-1/8″	3-1/8″	**MT2343718**	38.83	**29.12**
19/32″	1/2″	1-1/8″	3-1/8″	**MT2343698**	38.83	**29.12**
39/64″	1/2″	1-1/8″	3-1/8″	**MT2343719**	38.83	**29.12**
19/64″	3/8″	9/16″	2-1/2″	**MT2343709**	20.42	**15.32**
5/8″	1/2″	1-1/8″	3-1/8″	**MT2343660**	40.84	**30.63**
5/8″	5/8″	1-5/16″	3-7/16″	**MT2343661**	38.31	**28.73**
11/16″	1/2″	1-5/16″	3-5/16″	**MT2343662**	49.79	**37.35**
11/16″	5/8″	1-5/16″	3-7/16″	**MT2343663**	48.39	**36.29**
3/4″	1/2″	1-5/16″	3-7/16″	**MT2343664**	44.06	**33.04**
3/4″	5/8″	1-5/16″	3-7/16″	**MT2343665**	49.25	**36.93**
3/4″	3/4″	1-5/16″	3-9/16″	**MT2343666**	46.51	**34.88**
13/16″	5/8″	1-1/2″	3-5/8″	**MT2343667**	59.25	**44.44**
13/16″	3/4″	1-1/2″	3-3/4″	**MT2343668**	58.29	**43.72**
7/8″	5/8″	1-1/2″	3-5/8″	**MT2343669**	59.55	**44.66**
7/8″	3/4″	1-1/2″	3-3/4″	**MT2343670**	59.98	**44.98**
7/8″	7/8″	1-1/2″	3-3/4″	**MT2343671**	60.02	**45.01**
15/16″	3/4″	1-1/2″	3-3/4″	**MT2343673**	72.16	**54.12**
15/16″	5/8″	1-1/2″	4″	**MT2343672**	68.78	**51.59**
15/16″	7/8″	1-1/2″	3-3/4″	**MT2343674**	62.27	**46.70**
1″	5/8″	1-1/2″	3-3/4″	**MT2343675**	72.24	**54.18**
1″	3/4″	1-1/2″	3-3/4″	**MT2343676**	74.33	**55.75**
1″	7/8″	1-1/2″	3-3/4″	**MT2343677**	72.24	**54.18**
1″	1″	1-5/8″	4-1/8″	**MT2343678**	77.09	**57.82**
1-1/8″	3/4″	1-1/2″	3-7/8″	**MT2343720**	91.90	**68.92**
1-1/8″	1″	1-5/8″	4-1/8″	**MT2343680**	104.64	**78.48**
1-1/8″	7/8″	1-5/8″	3-7/8″	**MT2343679**	90.21	**67.66**
1-1/4″	3/4″	1-1/2″	3-7/8″	**MT2343721**	100.54	**75.41**
1-1/4″	1″	1-5/8″	4-1/8″	**MT2343682**	100.54	**75.41**
1-1/4″	1-1/4″	1-5/8″	4-1/2″	**MT2343683**	100.54	**75.41**
1-1/4″	7/8″	1-5/8″	3-7/8″	**MT2343681**	100.54	**75.41**
1-3/8″	3/4″	1-1/2″	3-7/8″	**MT2343722**	117.14	**87.86**
1-3/8″	1″	1-5/8″	4-1/8″	**MT2343684**	158.48	**118.86**
1-1/2″	3/4″	1-1/2″	3-7/8″	**MT2343723**	129.20	**96.90**
1-1/2″	1-1/4″	1-5/8″	4-1/2″	**MT2343686**	152.84	**114.63**
1-1/2″	1″	1-5/8″	4-1/8″	**MT2343685**	179.21	**134.41**
1-5/8″	1-1/4″	1-5/8″	4-1/8″	**MT2343687**	173.66	**130.25**
1-7/8″	1-1/4″	1-5/8″	4-1/2″	**MT2343689**	182.83	**137.12**
1-3/4″	3/4″	1-1/2″	3-7/8″	**MT2343724**	154.57	**115.93**
1-3/4″	1-1/4″	1-5/8″	4-1/2″	**MT2343688**	154.57	**115.93**
2″	1-1/4″	1-5/8″	4-1/2″	**MT2343690**	247.23	**185.42**

10017

INTERNAL TOOL™ Multi-Reach Boring Bars

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

				Uncoated			AlTiN		
Connection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Overall Length (OAL)	Corner Radius (RE)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.187″	0.22″	4″	0.005″	GE97041095	80.33	64.72	GE97041095C	88.43	71.23
1/4″	0.28″	4″	0.007″	GE97041100	80.33	64.72	GE97041100C	88.43	71.23
0.312″	0.35″	4″	0.007″	GE97041110	95.93	77.28	GE97041110C	108.92	87.74
3/8″	0.42″	6″	0.01″	GE97041120	116.33	93.71	GE97041120C	135.82	109.42
1/2″	0.56″	6″	0.01″	GE97041130	162.89	131.23	GE97041130C	185.62	149.53
5/8″	0.7″	6″	0.015″	GE97041140	220.68	177.79	GE97041140C	247.47	199.36

30124

INTERNAL TOOL™ Solid Carbide Boring Tools

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

Connection Diameter Machine Side (DCONMS)	Minimum Bore Diameter (DMIN)	Overall Length (OAL)	Overhang Minimum (OHN)	Order No.	Regular Price	SALE
1/8″	0.05″	2″	0.15″	GE97101000	29.45	23.72
1/8″	0.05″	2″	0.2″	GE97101005	29.45	23.72
1/8″	0.05″	2″	0.3″	GE97101010	29.45	23.72
1/8″	0.05″	2″	0.4″	GE97101015	29.45	23.72
1/8″	0.06″	2″	0.15″	GE97101020	29.45	23.72
1/8″	0.06″	2″	0.2″	GE97101025	29.45	23.72
1/8″	0.06″	2″	0.3″	GE97101030	29.45	23.72
1/8″	0.06″	2″	0.4″	GE97101035	29.45	23.72
1/8″	0.06″	2″	1/2″	GE97101040	29.45	23.72
1/8″	0.08″	2″	0.15″	GE97101045	29.45	23.72
1/8″	0.08″	2″	0.2″	GE97101050	29.45	23.72
1/8″	0.08″	2″	0.3″	GE97101055	29.45	23.72
1/8″	0.08″	2″	0.4″	GE97101060	29.45	23.72
1/8″	0.08″	2″	1/2″	GE97101065	29.45	23.72
1/8″	0.08″	2″	0.6″	GE97101070	29.45	23.72
1/8″	0.1″	2″	0.15″	GE97101075	29.45	23.72
1/8″	0.1″	2″	0.2″	GE97101080	29.45	23.72
1/8″	0.1″	2″	0.3″	GE97101085	29.45	23.72
1/8″	0.1″	2″	0.4″	GE97101090	29.45	23.72
1/8″	0.1″	2″	1/2″	GE97101095	29.45	23.72
1/8″	0.1″	2″	0.6″	GE97101100	29.45	23.72
1/8″	0.1″	2″	0.7″	GE97101105	29.45	23.72
1/8″	0.11″	2″	0.15″	GE97101110	29.45	23.72
1/8″	0.11″	2″	0.2″	GE97101115	29.45	23.72
1/8″	0.11″	2″	0.3″	GE97101120	29.45	23.72
1/8″	0.11″	2″	0.4″	GE97101125	29.45	23.72
1/8″	0.11″	2″	1/2″	GE97101130	29.45	23.72
1/8″	0.11″	2″	0.6″	GE97101135	29.45	23.72
1/8″	0.11″	2″	0.7″	GE97101140	29.45	23.72
3/16″	0.12″	2-1/2″	1/4″	GE97101145	31.57	25.44
3/16″	0.12″	2-1/2″	0.35″	GE97101150	31.57	25.44
3/16″	0.12″	2-1/2″	1/2″	GE97101155	31.57	25.44
3/16″	0.12″	2-1/2″	0.6″	GE97101160	31.57	25.44
3/16″	0.12″	2-1/2″	0.7″	GE97101165	31.57	25.44
3/16″	0.12″	2-1/2″	0.8″	GE97101170	31.57	25.44
3/16″	0.14″	2-1/2″	1/4″	GE97101175	31.57	25.44
3/16″	0.14″	2-1/2″	0.4″	GE97101180	31.57	25.44
3/16″	0.14″	2-1/2″	1/2″	GE97101185	31.57	25.44
3/16″	0.14″	2-1/2″	0.6″	GE97101190	31.57	25.44
3/16″	0.14″	2-1/2″	0.7″	GE97101195	31.57	25.44
3/16″	0.14″	2-1/2″	3/4″	GE97101200	31.57	25.44
3/16″	0.14″	2-1/2″	0.8″	GE97101205	31.57	25.44
3/16″	0.16″	2-1/2″	1/4″	GE97101210	31.57	25.44
3/16″	0.16″	2-1/2″	0.4″	GE97101215	31.57	25.44
3/16″	0.16″	2-1/2″	1/2″	GE97101220	31.57	25.44
3/16″	0.16″	2-1/2″	0.6″	GE97101225	31.57	25.44
3/16″	0.16″	2-1/2″	3/4″	GE97101230	31.57	25.44
3/16″	0.16″	2-1/2″	0.9″	GE97101235	31.57	25.44
3/16″	0.16″	2-1/2″	1″	GE97101240	31.57	25.44
1/4″	0.18″	2-1/2″	0.35″	GE97101245	34.00	27.38
1/4″	0.18″	2-1/2″	1/2″	GE97101250	34.00	27.38
1/4″	0.18″	2-1/2″	0.6″	GE97101255	34.00	27.38
1/4″	0.18″	2-1/2″	3/4″	GE97101260	34.00	27.38
1/4″	0.18″	2-1/2″	0.9″	GE97101265	34.00	27.38
1/4″	0.18″	2-1/2″	1″	GE97101270	34.00	27.38
1/4″	0.18″	2-1/2″	1.1″	GE97101275	34.00	27.38
1/4″	0.2″	2-1/2″	0.4″	GE97101280	34.00	27.38
1/4″	0.2″	2-1/2″	1/2″	GE97101285	34.00	27.38
1/4″	0.2″	2-1/2″	0.6″	GE97101290	34.00	27.38
1/4″	0.2″	2-1/2″	0.7″	GE97101295	34.00	27.38
1/4″	0.2″	2-1/2″	0.8″	GE97101300	34.00	27.38
1/4″	0.2″	2-1/2″	0.9″	GE97101305	34.00	27.38
1/4″	0.2″	2-1/2″	1″	GE97101310	34.00	27.38
1/4″	0.2″	2-1/2″	1.1″	GE97101315	34.00	27.38
1/4″	0.2″	2-1/2″	1.2″	GE97101320	34.00	27.38
1/4″	0.2″	2-1/2″	1.3″	GE97101325	34.00	27.38
5/16″	0.23″	2-1/2″	0.4″	GE97101330	46.59	37.53
5/16″	0.23″	2-1/2″	1/2″	GE97101335	46.59	37.53
5/16″	0.23″	2-1/2″	0.6″	GE97101340	46.59	37.53
5/16″	0.23″	2-1/2″	0.7″	GE97101345	46.59	37.53
5/16″	0.23″	2-1/2″	0.8″	GE97101350	46.59	37.53
5/16″	0.23″	2-1/2″	0.9″	GE97101355	46.59	37.53
5/16″	0.23″	2-1/2″	1″	GE97101360	46.59	37.53
5/16″	0.23″	2-1/2″	1.15″	GE97101365	46.59	37.53
5/16″	0.23″	2-1/2″	1.2″	GE97101370	46.59	37.53
5/16″	0.23″	2-1/2″	1-1/4″	GE97101375	46.59	37.53
5/16″	0.23″	2-1/2″	1.4″	GE97101380	46.59	37.53
5/16″	0.23″	2-1/2″	1-1/2″	GE97101385	46.59	37.53
5/16″	0.23″	2-1/2″	1.6″	GE97101390	46.59	37.53
5/16″	0.29″	2-1/2″	1/2″	GE97101395	46.59	37.53
5/16″	0.29″	2-1/2″	0.6″	GE97101400	46.59	37.53
5/16″	0.29″	2-1/2″	3/4″	GE97101405	46.59	37.53
5/16″	0.29″	2-1/2″	0.9″	GE97101410	46.59	37.53
5/16″	0.29″	2-1/2″	1″	GE97101415	46.59	37.53
5/16″	0.29″	2-1/2″	1.1″	GE97101420	46.59	37.53
5/16″	0.29″	2-1/2″	1-1/4″	GE97101425	46.59	37.53
5/16″	0.29″	2-1/2″	1.35″	GE97101430	46.59	37.53
5/16″	0.29″	2-1/2″	1-1/2″	GE97101435	46.59	37.53
5/16″	0.29″	2-1/2″	1.6″	GE97101440	46.59	37.53
5/16″	0.29″	2-1/2″	1-3/4″	GE97101445	46.59	37.53
3/8″	0.32″	2-1/2″	1/2″	GE97101450	65.14	52.48
3/8″	0.32″	2-1/2″	0.6″	GE97101455	65.14	52.48
3/8″	0.32″	2-1/2″	3/4″	GE97101460	65.14	52.48
3/8″	0.32″	2-1/2″	0.9″	GE97101465	65.14	52.48
3/8″	0.32″	2-1/2″	1″	GE97101470	65.14	52.48
3/8″	0.32″	2-1/2″	1.1″	GE97101475	65.14	52.48
3/8″	0.32″	2-1/2″	1-1/4″	GE97101480	65.14	52.48
3/8″	0.32″	2-1/2″	1-1/2″	GE97101485	65.14	52.48
3/8″	0.32″	2-1/2″	1.6″	GE97101490	65.14	52.48
3/8″	0.32″	2-1/2″	1.8″	GE97101495	65.14	52.48
3/8″	0.32″	4″	2″	GE97101500	83.79	67.50
3/8″	0.32″	4″	2-1/2″	GE97101505	83.79	67.50
3/8″	0.32″	4″	3″	GE97101510	83.79	67.50
3/8″	0.36″	2-1/2″	1/2″	GE97101515	65.14	52.48
3/8″	0.36″	2-1/2″	0.6″	GE97101520	65.14	52.48
3/8″	0.36″	2-1/2″	3/4″	GE97101525	65.14	52.48
3/8″	0.36″	2-1/2″	0.9″	GE97101530	65.14	52.48
3/8″	0.36″	2-1/2″	1″	GE97101535	65.14	52.48
3/8″	0.36″	2-1/2″	1.15″	GE97101540	65.14	52.48
3/8″	0.36″	2-1/2″	1-1/4″	GE97101545	65.14	52.48
3/8″	0.36″	2-1/2″	1-1/2″	GE97101550	65.14	52.48
3/8″	0.36″	2-1/2″	1.6″	GE97101555	65.14	52.48
3/8″	0.36″	2-1/2″	1.8″	GE97101560	65.14	52.48
3/8″	0.36″	4″	2″	GE97101565	83.79	67.50
3/8″	0.36″	4″	2-1/2″	GE97101570	83.79	67.50
3/8″	0.36″	4″	3″	GE97101575	83.79	67.50
1/2″	0.49″	3″	3/4″	GE97101580	91.36	73.60
1/2″	0.49″	3″	1″	GE97101585	91.36	73.60
1/2″	0.49″	3″	1-1/4″	GE97101590	91.36	73.60
1/2″	0.49″	3″	1-1/2″	GE97101595	91.36	73.60
1/2″	0.49″	4″	2″	GE97101600	99.88	80.47
1/2″	0.49″	4″	2-1/2″	GE97101605	99.88	80.47
1/2″	0.49″	4″	2.6″	GE97101610	99.88	80.47
1/2″	0.49″	6″	3″	GE97101615	125.85	101.38
1/2″	0.49″	6″	3-1/2″	GE97101620	125.85	101.38
1/2″	0.49″	6″	4″	GE97101625	125.85	101.38
1/2″	0.49″	6″	4-1/2″	GE97101630	125.85	101.38

30125

KEO Center Drills

Plain Type 60º

- 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	10.44	8.66
#1	1/8″	1-1/4″	AV4110100	7.28	5.68
#2	3/16″	1-7/8″	AV4110200	7.60	5.93
#3	1/4″	2″	AV4110300	7.92	6.18
#4	5/16″	2-1/8″	AV4110400	8.16	6.38
#4.5	3/8″	2-1/2″	AV4114500	11.26	8.79
#5	7/16″	2-3/4″	AV4110500	12.96	10.12
#6	1/2″	3″	AV4110600	19.48	15.21
#7	5/8″	3-1/4″	AV4110700	29.55	23.08
#8	3/4″	3-1/2″	AV4110800	40.59	31.70
#9	7/8″	3-5/8″	AV4110900	73.65	57.52
#10	1″	3-3/4″	AV4111000	96.67	75.49

22469

KEO 5 Pc. 3 Flute Countersink Sets

Carbide • 60, 82, 90 and 100º

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

	Uncoated			TiALN		
Point Angle (SIG)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
60 Degrees	AV4255749	373.55	307.81	AV4255749TIALN	449.50	393.54
82 Degrees	AV4255759	373.55	307.81	AV4255759TIALN	449.50	393.54
90 Degrees	AV4255769	373.55	327.05	AV4255769TIALN	449.50	393.54
100 Degrees	AV4255779	373.55	307.81	AV4255779TIALN	449.50	393.54

30172

RAPIDKUT Solid Carbide 6 Flute Countersink Sets

60º, 82º, and 90º • In Plastic Case

- Long life on most materials including hardened steels, high temperature alloys, cast iron, and other highly abrasive materials
- Made from premium submicron grade carbide

Diameter Range	Point Angle (SIG)	Order No.	Regular Price	SALE
1/4″|3/8″|1/2″|3/4″|1″	60 Degrees	BC55R22060	324.88	237.86
1/4″|3/8″|1/2″|3/4″|1″	82 Degrees	BC55R22082	324.88	237.86
1/4″|3/8″|1/2″|3/4″|1″	90 Degrees	BC55R22090	324.88	237.86

24637

Severance Carbide Inside Deburring Cutters

Shear Tooth Design

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

			90 Degrees			60 Degrees		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/32″	3/32″	1-1/2″	BC5420680	17.48	13.56	BC5420620	17.48	13.56
1/8″	1/8″	1-1/2″	BC5422249	22.75	17.65	BC5422250	22.75	17.65
3/16″	3/16″	2″	BC5420682	33.74	26.16	BC5420622	33.74	26.16
1/4″	1/4″	2″	BC5422412	42.97	33.32	BC5422411	42.97	33.32
5/16″	1/4″	2-1/4″	BC5420688	43.92	34.06	BC5420628	43.92	34.06
3/8″	1/4″	2-1/4″	BC5420689	46.91	36.39	BC5420629	46.91	36.39
1/2″	1/4″	2-1/4″	BC5420693	49.68	38.53	BC5420633	49.68	38.53
1/2″	3/8″	2-1/8″	BC5420694	49.68	38.53	BC5420634	49.68	38.53
5/8″	1/4″	2-3/8″	BC5420699	55.00	42.65	BC5420639	55.00	42.65
5/8″	3/8″	2-3/8″	BC5420700	55.00	42.65	BC5420640	55.00	42.65
3/4″	1/2″	2-11/16″	BC5420704	92.44	71.68	BC5420644	92.44	71.68
1″	1/2″	2-13/16″	BC5420710	184.92	143.40	BC5420650	184.92	143.40

10572

NOGA Reversible Countersinks

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

SAVE 30%

Range	Included	Type	Order No.	Regular Price	SALE
3-5.5 mm	Steel Handle / R1 Blade	Mini-Reversible Set	FN55RC1000	37.86	25.12
5-10 mm	Steel Handle / R2 Blade	Medium-Reversible Set	FN-55RC2000	37.86	25.12
10-22 mm	Steel Handle / R3 Blade	Large-Reversible Set	FN-55RC2200	45.04	29.88
3.5 - 22 mm	Set of all 3	Mini, Medium, Large	FN-55RC3300	120.73	80.10

24089

NOGA Countersink, Holders and Blades

SAVE 35%

Included	Order No.	Regular Price	SALE
NogaGrip 3 Handle / C Holder / C20 Countersink Blade (20 mm)	FN55NG3100	41.66	27.64

22470

M.A. Ford Uniflute® Countersinks

High Speed Steel

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

SAVE 30%

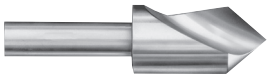
			82 Degrees			90 Degrees		
Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4″	1/4″	2″	BC7061056	13.17	9.03	BC7061061	13.17	9.03
3/8″	1/4″	2″	BC7061081	14.97	10.26	BC7061086	14.97	10.26
1/2″	1/4″	2″	BC7061106	18.24	12.50	BC7061111	18.24	12.50
5/8″	1/4″	2-1/4″	BC7061131	24.35	16.70	BC7061136	24.35	16.70
3/4″	1/2″	2-3/4″	BC7061156	35.55	24.37	BC7061161	35.55	24.37
1″	1/2″	2-3/4″	BC7061181	59.21	40.59	BC7061186	59.21	40.59
1-1/4″	1/2″	3″	BC7061206	115.84	79.43	BC7061211	115.84	79.43
1-1/2″	3/4″	3-1/2″	BC7061221	156.85	107.53	BC7061226	156.85	107.53

†Straight shank with tang drive.

23769

PROCUT Single Flute Countersinks

High Speed Steel 60º, 82º & 90º



SAVE 45%

		60 Degrees			82 Degrees			90 Degrees		
Cutting Diameter (DC)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3/16″	1-1/2″	BC52RF360	6.66	2.88	BC52RF382	6.66	2.88	BC52RF390	6.61	2.88
1/4″	2″	BC52RF460	7.09	3.06	BC52RF482	7.09	3.06	BC52RF490	7.09	3.06
5/16″	2″	BC52RF560	7.33	3.16	BC52RF582	7.33	3.16	BC52RF590	7.33	3.16
3/8″	2″	BC52RF660	7.99	3.45	BC52RF682	7.99	3.45	BC52RF690	7.99	3.45
1/2″	2″	BC52RF860	10.43	4.50	BC52RF882	10.43	4.50	BC52RF890	10.43	4.50
5/8″	2-1/2″	BC52RF1060	14.26	6.16	BC52RF1082	14.26	6.16	BC52RF1090	14.26	6.16
3/4″	2-3/4″	BC52RF1260	19.34	8.34	BC52RF1282	19.34	8.34	BC52RF1290	19.34	8.34
7/8″	2-3/4″	BC52RF1460	31.29	13.64	BC52RF1482	31.60	13.64	BC52RF1490	31.60	13.64
1″	2-3/4″	BC52RF1660	33.93	14.64	BC52RF1682	33.93	14.64	BC52RF1690	33.93	14.64
1-1/4″	3″	BC52RF2060	51.59	22.26	BC52RF2082	51.59	22.26	BC52RF2090	51.59	22.26
1-1/2″	3-3/8″	BC52RF2460	80.35	35.00	BC52RF2482	81.10	35.00	BC52RF2490	81.10	35.00
2″	3-3/4″	BC52RF3260	131.53	57.30	BC52RF3282	132.78	57.30	BC52RF3290	132.78	57.30

24491

Universal Handy Chuck Holder

Model PV1000

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

SAVE 30%

Order No.	Regular Price	SALE
FN55PV1000	73.54	48.79

10120

D Blades

SAVE 30%

Blade Type	Application	Order No.	Regular Price	SALE
D50-TiN	Tool and Die Makers	FN55BD5012	14.26	9.46
D50	Tool and Die Makers	FN55D50	9.92	6.58
D55	Tool and Die Makers	FN55D55	21.71	14.40
D66	Cross-Hole Deburring	FN55D66	8.12	5.38
D75	Scraper Blade	FN55D75	10.69	7.10
D77	Scraper Blade	FN55D77	9.92	6.58

10073

SC Holder

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

SAVE 30%

Order No.	Regular Price	SALE
FN55SC1300	13.98	9.27

10115

Replacement Blades

SAVE 30%

Application	Blade Type	Shaviv Equivalent	Order No.	Regular Price	SALE
Steel, Aluminum, Plastic, Carbide	B10CO	None	FN55B10CO	3.31	2.20
Steel, Aluminum, Plastic	N1	B10	FN55N1	2.60	1.73
Steel, Aluminum, Plastic, Solid Carbide	N1C	B10C	FN55N1C	9.31	6.18
Steel, Aluminum, Plastic, Diamond Coated	N1D	None	FN55N1D	15.77	10.46
Steel, Aluminum, Plastic - Left Handed	N1LH	None	FN55N1LH	3.67	2.44
High Wear Materials, TiN Coated	N1TiN	B10P	FN55N1TIN	3.39	2.25
Brass, Cast Iron	N2	B20	FN55N2	2.61	1.74
Brass, Cast Iron	N2C	B20C	FN55N2C	9.35	6.21
Remove External & Internal Burrs	N3	B30	FN55N3	3.35	2.22
Inside Cross Holes and Back Side of Walls	N6	B60	FN55N6	5.04	3.34
Steel, Aluminum, Plastic	S10	E100	FN55S10	3.46	2.30
Stainless Steel	S100	None	FN55S100	3.98	2.64
Small Holes	S101	None	FN55S101	3.54	2.35
Small Holes - Left Handed	S101LH	None	FN55S101LH	4.19	2.78
Steel, Aluminum, Plastic, Diamond Coated	S10D	None	FN55S10D	16.21	10.76
Steel, Aluminum, Plastic - Left Handed	S10LH	None	FN55S10LH	4.72	3.12
High Wear Materials, TiN Coated	S10TiN	E100P	FN55S10TIN	4.34	2.88
Very Small Holes	S150	None	FN55S150	3.93	2.60
Very Small Holes, TiN Coated	S150-TiN	None	FN55BK3112	5.15	3.42
Brass, Cast Iron	S20	E200	FN55S20	3.71	2.46
Fine Point for Brass + Cast Iron	S202	None	FN55S202	3.93	2.60
Remove External & Internal Burrs	S30	E300	FN55S30	3.73	2.48
For Straight Edges	S35	E350	FN55S35	3.79	2.51
Inside Cross Holes and Back Side of Walls	S60	E600	FN55S60	5.31	3.52

10109

Rotodrive Blades

SAVE 30%

Blade Type	Application	Order No.	Regular Price	SALE
RD03.2	3.2 mm RotoDrive for Chamfering	FN55BC3201	9.46	6.27
RD06.3	6.3 mm RotoDrive for Chamfering	FN55BC6301	21.64	14.36
RD08.3	8.3 mm RotoDrive for Chamfering	FN55BC8301	22.08	14.66
RD10.4	10.4 mm RotoDrive for Chamfering	FN55BC1041	24.82	16.46
RD16.5	16.5 mm RotoDrive for Chamfering	FN55BC1651	27.03	17.93

10111

YT1200 Scraper

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

SAVE 30%

Application	Order No.	Regular Price	SALE
Scraper Blade for SC Holder 80 mm	FN55T80	10.80	7.16

10122

Adjustable Scraper

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

SAVE 30%

Application	Order No.	Regular Price	SALE
Scraping, Tri mming, Deburring	FN55SC8000	25.54	16.94

10067

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	37.86	25.12
Steel Handle / R2 Blade	FN55RC2000	37.86	25.12
Steel Handle / R3 Blade	FN55RC2200	45.04	29.88
Set of all 3	FN55RC3300	120.73	80.10

22419

Double Burr

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

SAVE 30%

Order No.	Regular Price	SALE
FN55DB1000	29.64	19.66

10075

Ceramic Convexed Cera-Cut & Blades

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

SAVE 30%

Included	Order No.	Regular Price	SALE
Cera-Cut Handle / 250 mm Convex Blade	FN55CR2000	44.14	29.29

10069

HY-PRO® Spiral Fluted With Modified Bottom

Fractional • Steam Oxide Finish
- For tapping hardened steel
- Best application: 4140, 4340, H13, D2 and 1055 up to 35HRC
- OSG List #290

			H2			H3			H5		
Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Flute Count (NOF)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
#2	56	2	TP282905601	51.36	36.51	-	-	-	-	-	-
#4	40	3	TP282906401	33.92	24.10	TP282911401	33.92	24.10	-	-	-
#5	40	3	TP282907001	33.92	24.10	-	-	-	-	-	-
#6	32	3	TP282907401	27.54	19.57	TP282912401	27.54	19.57	TP282917401	27.54	19.57
#8	32	3	TP282907801	27.54	19.57	TP282912801	27.54	19.57	TP282917801	27.54	19.57
#10	24	3	-	-	-	TP282913401	27.54	19.57	TP282918401	27.54	19.57
#10	32	3	TP282908801	27.54	19.57	TP282913801	27.54	19.57	TP282918801	27.54	19.57
1/4″	20	3	-	-	-	TP282930001	29.88	21.25	TP282940001	29.88	21.25
1/4″	28	3	-	-	-	TP282930401	29.88	21.25	TP282940401	29.88	21.25
5/16″	18	3	-	-	-	TP282930801	36.72	26.10	TP282940801	36.72	26.10
5/16″	24	3	-	-	-	TP282931201	36.72	26.10	TP282941201	36.72	26.10
3/8″	16	3	-	-	-	TP282931601	42.69	30.35	TP282941601	42.69	30.35
3/8″	24	3	-	-	-	TP282931801	42.69	30.35	TP282941801	42.69	30.35
7/16″	14	3	-	-	-	TP282932001	63.77	45.33	TP282942001	63.77	45.33
7/16″	20	3	-	-	-	TP282932201	63.77	45.33	TP282942201	63.77	45.33
1/2″	13	3	-	-	-	TP282932401	75.15	53.42	TP282942401	75.15	53.42
1/2″	20	3	-	-	-	TP282932601	75.15	53.42	TP282942601	75.15	53.42
5/8″	11	4	-	-	-	TP282933201	132.35	94.08	TP282943201	132.35	94.08
5/8″	18	4	-	-	-	TP282933401	132.35	94.08	-	-	-
3/4″	10	4	-	-	-	TP282933601	170.22	120.99	TP282943601	170.22	120.99
3/4″	16	4	-	-	-	TP282933801	170.22	120.99	TP282943801	170.22	120.99
7/8″	9	4	-	-	-	-	-	-	TP282944001	236.36	168.01
1″	8	4	-	-	-	-	-	-	TP282944401	315.29	224.12

10187

HY-PRO® Spiral Point Plug Style

Fractional • Steam Oxide Finish
- For tapping hardened steel
- Best application: 4140, 4340, H13, D2 and 1055 up to 35HRC
- OSG List #280

			H2			H3			H5		
Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Flute Count (NOF)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
#2	56	2	TP282805601	34.30	24.38	-	-	-	-	-	-
#4	40	2	TP282806401	22.61	16.07	TP282811401	22.61	16.07	TP282816401	22.61	16.07
#5	40	2	TP282807001	22.61	16.07	-	-	-	-	-	-
#6	32	2	TP282807401	18.79	13.36	TP282812401	18.79	13.36	TP282817401	18.79	13.36
#8	32	3	TP282807801	18.79	13.36	TP282812801	18.79	13.36	TP282817801	18.79	13.36
#10	24	3	-	-	-	TP282813401	18.79	13.36	TP282818401	18.79	13.36
#10	32	3	TP282808801	18.79	13.36	TP282813801	18.79	13.36	TP282818801	18.79	13.36
1/4″	20	3	-	-	-	TP282830001	20.86	14.83	TP282840001	20.86	14.83
1/4″	28	3	-	-	-	TP282830401	20.86	14.83	TP282840401	20.86	14.83
5/16″	18	3	-	-	-	TP282830801	23.41	16.64	TP282840801	23.41	16.64
5/16″	24	3	-	-	-	TP282831201	23.41	16.64	TP282841201	23.41	16.64
3/8″	16	3	-	-	-	TP282831601	26.41	18.77	TP282841601	26.41	18.77
3/8″	24	3	-	-	-	TP282831801	26.41	18.77	TP282841801	26.41	18.77
7/16″	14	3	-	-	-	TP282832001	34.30	24.38	-	-	-
7/16″	20	3	-	-	-	TP282832201	34.30	24.38	-	-	-
1/2″	13	3	-	-	-	TP282832401	39.66	28.19	-	-	-
1/2″	20	3	-	-	-	TP282832601	39.66	28.19	-	-	-
5/8″	11	3	-	-	-	TP282833201	71.93	51.13	TP282843201	71.93	51.13
5/8″	18	3	-	-	-	TP282833401	71.93	51.13	-	-	-
3/4″	10	3	-	-	-	TP282833601	112.85	80.23	TP282843601	112.85	80.23
7/8″	9	3	-	-	-	-	-	-	TP282844001	167.62	119.15
1″	8	4	-	-	-	-	-	-	TP282844401	223.23	158.67

10189

HSS MORSE M GP Eight Pitch Straight Flute Hand Taps

Ground Thread • High Speed Steel • Bright Finish
- Morse List #2046

						Taper			Plug			Bottoming		
Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Thread Tolerance Class (TCTR)	Flute Count (NOF)	Thread Cutting Part Length (THL)	Overall Length (OAL)	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1″	8	H4	4	2-1/2″	5-1/8″	MT3732323	98.24	73.68	MT3732480	98.24	73.68	MT3732659	98.24	73.68
1″	8	H6	4	2-1/2″	5-1/8″	-	-	-	MT3732481	104.49	78.37	-	-	-
1-1/8″	8	H5	4	2-9/16″	5-7/16″	MT3732334	100.88	75.66	MT3732508	100.88	75.66	MT3732501	100.88	75.66
1-1/4″	8	H5	4	2-9/16″	5-3/4″	MT3732336	119.76	89.82	MT3732509	119.76	89.82	MT3732502	119.76	89.82
1-3/8″	8	H5	4	3″	6-1/16″	MT3732338	154.58	115.94	MT3732510	154.58	115.94	MT3732503	162.34	121.76
1-1/2″	8	H5	6	3″	6-3/8″	MT3732340	179.80	134.85	MT3732511	179.80	134.85	MT3732504	179.80	134.85
1-5/8″	8	H6	6	3-3/16″	6-11/16″	-	-	-	MT3732512	231.83	173.88	MT3732505	231.83	173.88
1-3/4″	8	H6	6	3-3/16″	7″	MT3732344	258.59	193.94	MT3732513	271.51	203.63	MT3732506	258.59	193.94
1-7/8″	8	H6	6	3-9/16″	7-5/16″	-	-	-	MT3732514	305.86	229.39	MT3732507	305.86	229.39
2″	8	H6	6	3-9/16″	7-5/8″	MT3732348	324.68	243.51	MT3732515	324.68	243.51	MT3732516	324.68	243.51
2-1/8″	8	H6	6	3-9/16″	8″	MT3734919	597.16	447.87	MT3734925	597.16	447.87	MT3734933	597.16	447.87
2-1/4″	8	H6	6	3-9/16″	8-1/4″	MT3734920	655.10	491.32	MT3734926	655.10	491.32	MT3734934	655.10	491.32
2-3/8″	8	H6	6	4″	8-1/2″	MT3734921	704.04	528.03	MT3734927	704.04	528.03	MT3734935	704.04	528.03
2-1/2″	8	H6	6	4″	8-3/4″	MT3734922	824.05	618.03	MT3734928	824.05	618.03	MT3734936	824.09	618.06
2-5/8″	8	H8	6	4″	8-3/4″	-	-	-	MT3734929	875.72	656.79	MT3734937	875.72	656.79
2-3/4″	8	H8	6	4″	9-1/4″	MT3734923	938.64	703.98	MT3734930	938.72	704.04	MT3734938	938.72	704.04
2-7/8″	8	H8	6	4″	9-1/4″	-	-	-	MT3734931	1075.40	806.55	MT3734939	1075.40	806.55
3″	8	H8	6	4-9/16″	9-3/4″	MT3734924	1084.40	813.30	MT3734932	1084.40	813.30	MT3734940	1084.40	813.30

10025

HSS M GP General Purpose Hand Tap Sets

Ground Thread • High Speed Steel • Bright Finish

- Set consists of 1 each taper, plug and bottoming
- Morse List #2046

Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Flute Count (NOF)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/4″	20	4	2-1/2″	MT3732701	23.20	17.40
1/4″	28	4	2-1/2″	MT3732702	23.20	17.40
5/16″	18	4	2-23/32″	MT3732703	28.39	21.30
5/16″	24	4	2-23/32″	MT3732704	28.39	21.30
3/8″	16	4	2-15/16″	MT3732705	32.23	24.17
3/8″	24	4	2-15/16″	MT3732706	32.23	24.17
7/16″	14	4	3-5/32″	MT3732707	55.42	41.57
7/16″	20	4	3-5/32″	MT3732708	55.42	41.57
1/2″	13	4	3-19/32″	MT3732709	57.93	43.45
1/2″	20	4	3-19/32″	MT3732710	66.22	49.67
9/16″	12	4	3-19/32″	MT3732711	97.39	73.04
9/16″	18	4	3-19/32″	MT3732712	97.39	73.04
5/8″	11	4	3-13/16″	MT3732713	117.45	88.09
5/8″	18	4	3-13/16″	MT3732714	117.45	88.09
11/16″	11	4	4-1/32″	MT3732715	146.03	109.52
11/16″	16	4	4-1/32″	MT3732716	146.03	109.52
3/4″	10	4	4-1/4″	MT3732717	165.60	124.20
3/4″	16	4	4-1/4″	MT3732718	165.60	124.20
7/8″	9	4	4-11/16″	MT3732719	227.85	170.89
7/8″	14	4	4-11/16″	MT3732720	227.85	170.89
1″	8	4	5-1/8″	MT3732721	303.78	227.83
1″	12	4	5-1/8″	MT3732722	303.78	227.83
1″	14	4	5-1/8″	MT3732723	303.78	227.83
1-1/8″	7	4	5-7/16″	MT3732724	486.85	365.14
1-1/8″	12	4	5-7/16″	MT3732725	525.91	394.43
1-1/4″	7	4	5-3/4″	MT3732726	642.70	482.03
1-1/4″	12	4	5-3/4″	MT3732727	652.41	489.30
1-3/8″	6	4	6-1/16″	MT3732728	808.30	606.23
1-3/8″	12	4	6-1/16″	MT3732729	817.87	613.40
1-1/2″	6	4	6-3/8″	MT3732730	934.89	701.17
1-1/2″	12	4	6-3/8″	MT3732731	954.12	715.59

10026

PROCUT 39 Pc. Tap & Die Sets

#4 thru 1/2″1″ Adjustable Round Dies

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

UP TO 35% OFF

Cutting Edge Material	Order No.	Regular Price	SALE
Carbon Steel	ET51C614	146.85	74.90
HSS	ET51HS614	312.38	183.86

10278

HeliCoil Inch Thread Repair Kits

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

Insert Thread Size	Order No.	Regular Price	SALE
#4	EX70540104	67.96	56.39
#5	EX70540105	108.35	89.92
#6	EX70540106	67.94	56.38
#8	EX7054012	68.33	56.69
#10	EX7054013	63.88	53.01
#12	EX7054011	64.57	53.58
1/4″	EX7054014	65.90	54.67
5/16″	EX7054015	68.63	56.95
3/8″	EX7054016	69.97	58.06
7/16″	EX7054017	74.05	61.44
1/2″	EX7054018	105.35	87.41
9/16″	EX7054019	146.94	121.93
5/8″	EX70540110	150.63	124.98
3/4″	EX70540112	176.32	146.30
7/8″	EX70552114	231.22	191.86
1″	EX70552116	341.32	283.22
1 1/8″	EX70552118	428.14	355.27
1 1/4″	EX70552120	422.01	350.16
1 3/8″	EX70552122	458.76	380.67
1 1/2″	EX70552124	495.44	411.10
#6	EX70540206	108.37	89.93
#8	EX7054022	133.92	111.11
#10	EX7054023	71.34	59.19
1/4″	EX7054024	73.37	60.87
5/16″	EX7054025	76.10	63.14
3/8″	EX7054026	80.17	66.54
7/16″	EX7054027	84.29	69.93
1/2″	EX7054028	115.49	95.83
9/16″	EX7054029	157.96	131.08
5/8″	EX70540210	165.33	137.19
3/4″	EX70540212	191.00	158.48
7/8″	EX70552814	337.67	280.19
1″	EX705528161	396.35	328.87
1″	EX70552816	396.35	328.87
1 1/8″	EX70552818	495.45	411.11
1 1/4″	EX70552820	568.83	472.00
1 3/8″	EX70552822	623.92	517.70
1 1/2″	EX70552824	660.58	548.12

9761

HeliCoil Metric Thread Repair Kits

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

Insert Thread Size	Order No.	Regular Price	SALE
M3	EX7054033	108.35	89.92
M4	EX7054034	68.33	56.69
M5	EX7054035	69.08	57.33
M6	EX7054036	65.22	54.11
M7	EX7054037	66.25	54.97
M8	EX7054038	66.25	54.97
M10	EX70540310	79.82	66.24
M12	EX70540312	89.98	74.66
M14	EX70540314	157.96	131.08
M16	EX70540316	176.32	146.30
M18	EX70540318	209.19	173.57
M20	EX70540320	231.22	191.86
M8	EX7054048	122.44	101.59
M10	EX70540410	122.44	101.59
M10	EX70540510	187.25	155.37
M12	EX70540512	122.44	101.59
M12	EX70540612	122.44	101.59
M14	EX70540614	187.25	155.37
M16	EX70540616	190.86	158.37
M18	EX70540618	212.27	176.14

9764

PROCUT Metric Tap and Drill Set

High Speed Steel with Metal Index

- All the popular taps and necessary drills plus metal index.
- **Set Includes:** M2.5x0.45, drill 2.05mm, M3x0.50, drill 2.50mm, M3.5x0.60, drill 2.90mm, M4x0.70, drill 3.30mm, M5x0.80, drill 4.20mm, M6x1.00, drill 5.00mm, M8x1.25, drill 6.70mm, M10x1.5, drill 8.50mm, M12x1.75, drill 10.20mm

SAVE 30%

Family Name	Order No.	Regular Price	SALE
PCUET504099TDS-I ProCut	ET504099TDS	96.60	53.06

10350

PROCUT Jobber Drills

High Speed Steel ▪ 118º Standard Point ▪ Surface Treated

SAVE 45%

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

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Flute Length	Overall Length (OAL)	Order No.	Regular Price	SALE
1/64″	0.0156	3/16″	3/4″	AC40001B	1.68	0.79
1/32″	0.0312	1/2″	1-3/8″	AC40002B	1.07	0.51
3/64″	0.0469	3/4″	1-3/4″	AC40003B	1.07	0.51
1/16″	0.0625	7/8″	1-7/8″	AC40004B	1.07	0.51
5/64″	0.0781	1″	2″	AC40005B	1.17	0.55
3/32″	0.0938	1-1/4″	2-1/4″	AC40006B	1.17	0.55
7/64″	0.1094	1-1/2″	2-5/8″	AC40007B	1.17	0.55
1/8″	0.1250	1-5/8″	2-3/4″	AC40008B	1.17	0.55
9/64″	0.1406	1-3/4″	2-7/8″	AC40009B	1.82	0.58
5/32″	0.1562	2″	3-1/8″	AC40010B	1.25	0.58
11/64″	0.1719	2-1/8″	3-1/4″	AC40011B	1.33	0.62
3/16″	0.1875	2-5/16″	3-1/2″	AC40012B	1.50	0.71
13/64″	0.2030″	2-7/16″	3-5/8″	AC40013B	1.68	0.79
7/32″	0.2188	2-1/2″	3-3/4″	AC40014B	1.90	0.90
15/64″	0.2344	2-5/8″	3-7/8″	AC40015B	1.90	0.90
1/4|E	0.2500″	2-3/4″	4″	AC40016B	2.17	1.02
17/64″	0.2656	2-7/8″	4-1/8″	AC40017B	2.60	1.22
9/32″	0.2812	2-15/16″	4-1/4″	AC40018B	2.75	1.30
19/64″	0.2969	3-1/16″	4-3/8″	AC40019B	3.18	1.50
5/16″	0.3125	3-3/16″	4-1/2″	AC40020B	3.50	1.65
21/64″	0.3281	3-5/16″	4-5/8″	AC40021B	3.75	1.77
11/32″	0.3438	3-7/16″	4-3/4″	AC40022B	4.33	2.04
23/64″	0.3594	3-1/2″	4-7/8″	AC40023B	4.76	2.24
3/8″	0.3750	3-5/8″	5″	AC40024B	4.92	2.31
25/64″	0.3906	3-3/4″	5-1/8″	AC40025B	5.65	2.67
13/32″	0.4060″	3-7/8″	5-1/4″	AC40026B	5.74	2.71
27/64″	0.4219	3-15/16″	5-3/8″	AC40027B	6.32	2.98
7/16″	0.4375	4-1/16″	5-1/2″	AC40028B	6.58	3.10
29/64″	0.4531	4-3/16″	5-5/8″	AC40029B	7.41	3.49
15/32″	0.4688	4-5/16″	5-3/4″	AC40030B	7.84	3.68
31/64″	0.4844	4-3/8″	5-7/8″	AC40031B	9.58	4.51
1/2″	0.5000	4-1/2″	6″	AC40032B	10.01	4.71
17/32″	0.5312	4-13/16″	6-5/8″	AC40034B	16.51	7.77
9/16″	0.5625	4-13/16″	6-5/8″	AC40036B	18.18	8.56
19/32″	0.5938	5-3/16″	7-1/8″	AC40038B	18.68	8.79
5/8″	0.6250	5-3/16″	7-1/8″	AC40040B	21.32	10.05
21/32″	0.6562	5-3/16″	7-1/8″	AC40042B	21.59	10.16
11/16″	0.6875	5-5/8″	7-5/8″	AC40044B	24.67	11.61

24478

Heavy Duty Cobalt Screw Machine Drills

Cobalt ▪ 135º Split Point

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

SAVE 55%

Drill Bit Size / Cutting Diameter (DC)	Cutting Depth	Overall Length (OAL)	Order No.	Regular Price	SALE
1/16″	5/8″	1-5/8″	PT1840304	5.62	2.20
5/64″	11/16″	1-11/16″	PT1840305	5.65	2.21
3/32″	3/4″	1-3/4″	PT1840306	5.62	2.20
7/64″	13/16″	1-13/16″	PT1840307	6.38	2.50
1/8″	7/8″	1-7/8″	PT1840308	7.30	2.86
9/64″	15/16″	1-15/16″	PT1840309	7.41	2.90
5/32″	1″	2-1/16″	PT1840310	8.02	3.14
11/64″	1-1/16″	2-1/8″	PT1840311	9.10	3.56
3/16″	1-1/8″	2-3/16″	PT1840312	10.66	4.18
13/64″	1-3/16″	2-1/4″	PT1840313	12.17	4.76
7/32″	1-1/4″	2-3/8″	PT1840314	13.41	5.25
15/64″	1-5/16″	2-7/16″	PT1840315	14.87	5.82
1/4″ - E	1-3/8″	2-1/2″	PT1840316	14.90	5.83
17/64″	1-7/16″	2-5/8″	PT1840317	17.53	6.86
9/32″	1-1/2″	2-11/16″	PT1840318	18.51	7.24
5/16″	1-5/8″	2-13/16″	PT1840320	23.09	9.03
3/8″	1-13/16″	3-1/8″	PT1840324	31.90	12.48
13/32″	1-15/16″	3-5/16″	PT1840326	37.68	14.74
1/2″	2-1/4″	3-3/4″	PT1840332	51.22	20.04

24345

Twister® Micro XD Drills

5xD ▪ Solid Carbide

- Designed for high performance drilling in a broad range of materials
- Web thinned point helps reduce cutting forces during the drilling operation
- 0.8mm and above have honed cutting edges on the point which increases the strength of the cutting edges
- Post coat polishing to improve chip evacuation
- Altima® coated
- M A Ford List #MXDSR

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
0.55 mm	0.0217″	3 mm	4 mm	57 mm	AX2804696	41.10	34.10
0.5 mm	0.0197″	3 mm	4 mm	57 mm	AX2804694	41.10	34.10
0.65 mm	0.0256″	3 mm	5 mm	57 mm	AX2804700	41.10	34.10
0.6 mm	0.0236″	3 mm	5 mm	57 mm	AX2804698	41.10	34.10
0.75 mm	0.0295″	3 mm	6 mm	57 mm	AX2804704	41.10	34.10
0.7 mm	0.0276″	3 mm	5 mm	57 mm	AX2804702	41.10	34.10
0.85 mm	0.0335″	3 mm	7 mm	57 mm	AX2804708	41.10	34.10
0.8 mm	0.0315″	3 mm	6 mm	57 mm	AX2804706	41.10	34.10
0.95 mm	0.0374″	3 mm	7 mm	57 mm	AX2804712	41.10	34.10
0.9 mm	0.0354″	3 mm	7 mm	57 mm	AX2804710	41.10	34.10
1 mm	0.0394″	3 mm	8 mm	57 mm	AX2804714	41.10	34.10
1.05 mm	0.0413″	3 mm	8 mm	57 mm	AX2804716	41.10	34.10
1.15 mm	0.0453″	3 mm	9 mm	57 mm	AX2804720	41.10	34.10
1.1 mm	0.0433″	3 mm	8 mm	57 mm	AX2804718	41.10	34.10
1.25 mm	0.0492″	3 mm	9 mm	57 mm	AX2804724	41.10	34.10
1.2 mm	0.0472″	3 mm	9 mm	57 mm	AX2804722	41.10	34.10
1.35 mm	0.0531″	3 mm	10 mm	57 mm	AX2804728	41.10	34.10
1.3 mm	0.0512″	3 mm	10 mm	57 mm	AX2804726	41.10	34.10
1.45 mm	0.0571″	3 mm	11 mm	57 mm	AX2804732	41.10	34.10
1.4 mm	0.0551″	3 mm	10 mm	57 mm	AX2804730	41.10	34.10
1.55 mm	0.061″	3 mm	12 mm	57 mm	AX2804736	50.08	41.55
1.5 mm	0.0591″	3 mm	11 mm	57 mm	AX2804734	41.10	34.10
1.65 mm	0.065″	3 mm	12 mm	57 mm	AX2804740	50.08	41.55
1.6 mm	0.063″	3 mm	12 mm	57 mm	AX2804738	50.08	41.55
1.75 mm	0.0689″	3 mm	13 mm	57 mm	AX2804744	50.08	41.55
1.7 mm	0.0669″	3 mm	13 mm	57 mm	AX2804742	50.08	41.55
1.8 mm	0.0709″	3 mm	13 mm	57 mm	AX2804746	50.08	41.55
1.85 mm	0.0728″	3 mm	14 mm	57 mm	AX2804748	50.08	41.55
1.9 mm	0.0748″	3 mm	14 mm	57 mm	AX2804750	50.08	41.55
1.95 mm	0.0768″	3 mm	14 mm	57 mm	AX2804752	50.08	41.55
2 mm	0.0787″	3 mm	15 mm	57 mm	AX2804754	50.08	41.55
2.05 mm	0.0807″	3 mm	15 mm	57 mm	AX2804756	50.08	41.55
2.1 mm	0.0827″	3 mm	15 mm	57 mm	AX2804758	50.08	41.55
2.15 mm	0.0846″	3 mm	16 mm	57 mm	AX2804760	50.08	41.55
2.2 mm	0.0866″	3 mm	16 mm	57 mm	AX2804762	50.08	41.55
2.25 mm	0.0886″	3 mm	17 mm	57 mm	AX2804764	50.08	41.55
2.3 mm	0.0906″	3 mm	17 mm	57 mm	AX2804766	50.08	41.55
2.35 mm	0.0925″	3 mm	17 mm	57 mm	AX2804768	50.08	41.55
2.4 mm	0.0945″	3 mm	18 mm	57 mm	AX2804770	50.08	41.55
2.45 mm	0.0965″	3 mm	18 mm	57 mm	AX2804772	50.08	41.55
2.5 mm	0.0984″	3 mm	18 mm	57 mm	AX2804774	50.08	41.55
2.55 mm	0.1004″	3 mm	19 mm	57 mm	AX2804776	55.09	45.71
2.6 mm	0.1024″	3 mm	19 mm	57 mm	AX2804778	55.09	45.71
2.65 mm	0.1043″	3 mm	19 mm	57 mm	AX2804780	55.09	45.71
2.7 mm	0.1063″	3 mm	20 mm	57 mm	AX2804782	55.09	45.71
2.75 mm	0.1083″	3 mm	20 mm	57 mm	AX2804784	55.09	45.71
2.8 mm	0.1102″	3 mm	20 mm	57 mm	AX2804786	55.09	45.71
2.85 mm	0.1122″	3 mm	21 mm	57 mm	AX2804788	55.09	45.71
2.9 mm	0.1142″	3 mm	21 mm	57 mm	AX2804790	55.09	45.71
2.95 mm	0.1161″	3 mm	21 mm	57 mm	AX2804792	55.09	45.71

9949

PROCUT 29 Pc. Taper Length Drill Set

Straight Shank ▪ 1/16″-1/2″ by 64ths

SAVE 35%

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

Order No.	Regular Price	SALE
AP50104E	237.70	130.58

24453

Coolant Thru High Performance Drills

Solid Carbide • 3xD Length

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

SAVE 35%

Drill Bit Size / Cutting Diam. (DC)	Decimal Equivalent	Connection Diam. Machine Side (DCONMS)	Length Chip Flute (LCF)	Overall Length (OAL)	Order No.	Regular Price	SALE
0.125 mm	0.0049″	6 mm	20 mm	62 mm	**CW8170025**	140.38	**79.83**
0.1406 mm	0.0055″	6 mm	20 mm	62 mm	**CW8170050**	140.38	**79.83**
0.1563 mm	0.0062″	6 mm	24 mm	66 mm	**CW8170075**	140.38	**79.83**
0.1719 mm	0.0068″	6 mm	24 mm	66 mm	**CW8170100**	138.61	**78.82**
0.1875 mm	0.0074″	6 mm	28 mm	66 mm	**CW8170125**	136.80	**77.79**
0.2031 mm	0.008″	6 mm	28 mm	66 mm	**CW8170145**	125.30	**77.79**
0.2187 mm	0.0086″	6 mm	28 mm	66 mm	**CW8170175**	133.22	**75.76**
0.2344 mm	0.0092″	6 mm	28 mm	66 mm	**CW8170200**	133.22	**75.76**
0.25 mm	0.0098″	8 mm	34 mm	79 mm	**CW8170225**	195.44	**111.14**
0.2656 mm	0.0105″	8 mm	34 mm	79 mm	**CW8170250**	193.55	**110.06**
0.2813 mm	0.0111″	8 mm	41 mm	79 mm	**CW8170275**	191.78	**109.05**
0.2969 mm	0.0117″	8 mm	41 mm	79 mm	**CW8170300**	189.80	**107.92**
0.3125 mm	0.0123″	8 mm	41 mm	79 mm	**CW8170320**	189.80	**107.92**
0.3281 mm	0.0129″	10 mm	47 mm	89 mm	**CW8170345**	272.69	**155.07**
0.3437 mm	0.0135″	10 mm	47 mm	89 mm	**CW8170370**	269.89	**153.48**
0.3594 mm	0.0141″	10 mm	47 mm	89 mm	**CW8170385**	267.14	**151.92**
0.375 mm	0.0148″	10 mm	47 mm	89 mm	**CW8170405**	264.33	**150.32**
0.3906 mm	0.0154″	10 mm	47 mm	89 mm	**CW8170425**	264.33	**150.32**
0.4063 mm	0.016″	12 mm	55 mm	102 mm	**CW8170450**	351.52	**199.90**
0.4219 mm	0.0166″	12 mm	55 mm	102 mm	**CW8170465**	351.52	**199.90**
0.4375 mm	0.0172″	12 mm	55 mm	102 mm	**CW8170485**	318.50	**197.75**
0.4531 mm	0.0178″	12 mm	55 mm	102 mm	**CW8170500**	344.05	**195.64**
0.4687 mm	0.0185″	12 mm	55 mm	102 mm	**CW8170515**	344.05	**195.64**
0.4844 mm	0.0191″	14 mm	60 mm	107 mm	**CW8170540**	441.66	**251.16**
0.5 mm	0.0197″	14 mm	60 mm	107 mm	**CW8170555**	437.90	**249.01**

24245

Coolant Thru High Performance Drills

Solid Carbide • 5xD Length

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

SAVE 40%

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diam. Machine Side (DCONMS)	Length Chip Flute (LCF)	Overall Length (OAL)	Order No.	Regular Price	SALE
0.125 mm	0.0049″	6 mm	28 mm	66 mm	**CW8170680**	160.71	**99.77**
0.1406 mm	0.0055″	6 mm	28 mm	66 mm	**CW8170705**	175.46	**99.77**
0.1563 mm	0.0062″	6 mm	36 mm	74 mm	**CW8170730**	175.46	**99.77**
0.1719 mm	0.0068″	6 mm	36 mm	74 mm	**CW8170755**	173.28	**98.54**
0.1875 mm	0.0074″	6 mm	44 mm	82 mm	**CW8170780**	171.00	**97.24**
0.2031 mm	0.008″	6 mm	44 mm	82 mm	**CW8170800**	156.62	**97.24**
0.2187 mm	0.0086″	6 mm	44 mm	82 mm	**CW8170830**	166.52	**94.69**
0.2344 mm	0.0092″	6 mm	44 mm	82 mm	**CW8170855**	166.52	**94.69**
0.25 mm	0.0098″	8 mm	53 mm	91 mm	**CW8170880**	241.27	**137.20**
0.2656 mm	0.0105″	8 mm	53 mm	91 mm	**CW8170905**	238.95	**135.88**
0.2813 mm	0.0111″	8 mm	53 mm	91 mm	**CW8170930**	233.86	**132.98**
0.2969 mm	0.0117″	8 mm	53 mm	91 mm	**CW8170955**	228.67	**130.04**
0.3125 mm	0.0123″	8 mm	53 mm	91 mm	**CW8170975**	228.67	**130.04**
0.3281 mm	0.0129″	10 mm	61 mm	103 mm	**CW8171000**	306.38	**174.22**
0.3437 mm	0.0135″	10 mm	61 mm	103 mm	**CW8171025**	303.26	**172.45**
0.3594 mm	0.0141″	10 mm	61 mm	103 mm	**CW8171040**	296.81	**168.78**
0.375 mm	0.0148″	10 mm	61 mm	103 mm	**CW8171060**	293.67	**167.01**
0.3906 mm	0.0154″	10 mm	61 mm	103 mm	**CW8171080**	293.67	**167.01**
0.4063 mm	0.016″	12 mm	71 mm	118 mm	**CW8171105**	386.30	**219.67**
0.4219 mm	0.0166″	12 mm	71 mm	118 mm	**CW8171120**	386.30	**219.67**
0.4375 mm	0.0172″	12 mm	71 mm	118 mm	**CW8171140**	382.14	**217.31**
0.4531 mm	0.0178″	12 mm	71 mm	118 mm	**CW8171155**	378.08	**215.00**
0.4687 mm	0.0185″	12 mm	71 mm	118 mm	**CW8171170**	378.08	**215.00**

24246

Coolant Thru High Performance Drills

Solid Carbide • 8xD Length

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

SAVE 40%

Drill Bit Size / Cutting Diam. (DC)	Decimal Equivalent	Connection Diam. Machine Side (DCONMS)	Length Chip Flute (LCF)	Overall Length (OAL)	Order No.	Regular Price	SALE
0.125 mm	0.0049″	6 mm	34 mm	72 mm	**CW8171335**	220.91	**137.16**
0.1406 mm	0.0055″	6 mm	34 mm	72 mm	**CW8171360**	241.20	**137.16**
0.1563 mm	0.0062″	6 mm	43 mm	81 mm	**CW8171385**	241.20	**137.16**
0.1719 mm	0.0068″	6 mm	43 mm	81 mm	**CW8171410**	238.19	**135.45**
0.1875 mm	0.0074″	6 mm	57 mm	95 mm	**CW8171435**	235.04	**133.65**
0.2031 mm	0.008″	6 mm	57 mm	95 mm	**CW8171455**	235.04	**133.65**
0.2187 mm	0.0086″	6 mm	57 mm	95 mm	**CW8171485**	228.90	**130.16**
0.2344 mm	0.0092″	6 mm	57 mm	95 mm	**CW8171510**	228.90	**130.16**
0.25 mm	0.0098″	8 mm	76 mm	114 mm	**CW8171535**	276.39	**157.18**
0.2656 mm	0.0105″	8 mm	76 mm	114 mm	**CW8171560**	273.72	**155.65**
0.2813 mm	0.0111″	8 mm	76 mm	114 mm	**CW8171585**	267.89	**152.34**
0.2969 mm	0.0117″	8 mm	76 mm	114 mm	**CW8171610**	239.91	**148.95**
0.3125 mm	0.0123″	8 mm	76 mm	114 mm	**CW8171630**	261.93	**148.95**
0.3281 mm	0.0129″	10 mm	95 mm	142 mm	**CW8171655**	332.48	**189.06**
0.3437 mm	0.0135″	10 mm	95 mm	142 mm	**CW8171680**	329.08	**187.13**
0.3594 mm	0.0141″	10 mm	95 mm	142 mm	**CW8171695**	322.10	**183.16**
0.375 mm	0.0148″	10 mm	95 mm	142 mm	**CW8171715**	318.71	**181.23**
0.3906 mm	0.0154″	10 mm	95 mm	142 mm	**CW8171735**	318.71	**181.23**
0.4063 mm	0.016″	12 mm	114 mm	162 mm	**CW8171760**	468.52	**266.42**
0.4219 mm	0.0166″	12 mm	114 mm	162 mm	**CW8171775**	468.52	**266.42**
0.4375 mm	0.0172″	12 mm	114 mm	162 mm	**CW8171795**	463.47	**263.55**
0.4531 mm	0.0178″	12 mm	114 mm	162 mm	**CW8171810**	458.56	**260.77**
0.4687 mm	0.0185″	12 mm	114 mm	162 mm	**CW8171825**	458.56	**260.77**

24247

PROCUT Combined Drills & Countersinks

High Speed Steel

- 60º Included angle

SAVE 35%

Size	Drill Bit Size / Cutting Diameter (DC)	Overall Length (OAL)	Order No.	Regular Price	SALE
#1	1/8″	1-1/4″	**AV501**	2.91	**1.60**
#2	3/16″	1-7/8″	**AV502**	3.26	**1.79**
#3	1/4″	2″	**AV503**	3.34	**1.83**
#4	5/16″	2-1/8″	**AV504**	3.00	**1.65**
#5	7/16″	2-3/4″	**AV505**	7.25	**3.99**
#6	1/2″	3″	**AV506**	9.58	**5.26**
#7	5/8″	3-1/4″	**AV507**	13.25	**7.28**
#8	3/4″	3-1/2″	**AV508**	17.26	**9.47**

24466

PROCUT Extra Long Straight Shank Drills

8″ Through 18″ • High Speed Steel

- For general purpose drilling in applications where extra reach is required

SAVE 35%

	8″, 6″			10″, 8″			12″, 9″			18″, 13″		
Tool Diam.	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8″	**AM50008**	14.70	**6.99**	**AM51008**	19.18	**9.03**	**AM52008**	19.31	**9.09**	-	-	-
9/64″	**AM50009**	14.89	**7.07**	**AM51009**	16.63	**7.84**	**AM52009**	19.31	**9.09**	-	-	-
5/32″	**AM50010**	15.03	**7.07**	**A M51010**	16.63	**7.84**	**AM52010**	19.31	**9.09**	**AM53010**	58.60	**27.60**
11/64″	**AM50011**	16.52	**7.79**	**AM51011**	18.53	**8.72**	**AM52011**	19.31	**9.09**	-	-	-
3/16″	**AM50012**	16.52	**7.79**	**AM51012**	18.53	**8.72**	**AM52012**	19.31	**9.09**	**AM53012**	43.99	**20.90**
13/64″	**AM50013**	16.52	**7.79**	**AM51013**	18.53	**8.72**	**AM52013**	19.14	**9.09**	**AM53013**	43.99	**20.90**
7/32″	**AM50014**	16.52	**7.79**	**AM51014**	18.53	**8.72**	**AM52014**	19.31	**9.09**	**AM53014**	41.37	**19.48**
1/4″	**AM50016**	16.72	**7.87**	**AM51016**	18.96	**8.93**	**AM52016**	19.31	**9.09**	**AM53016**	43.68	**20.56**
9/32″	**AM50018**	18.36	**8.72**	**AM51018**	20.76	**9.78**	**AM52018**	21.84	**10.39**	**AM53018**	45.12	**21.44**
5/16″	**AM50020**	18.96	**8.93**	**AM51020**	21.92	**10.31**	**AM52020**	22.58	**10.63**	**AM53020**	45.16	**21.46**
11/32″	**AM50022**	21.19	**9.97**	**AM51022**	23.93	**11.26**	**AM52022**	25.42	**11.98**	**AM53022**	45.12	**21.44**
3/8″	**AM50024**	22.23	**10.46**	**AM51024**	24.79	**11.67**	**AM52024**	26.47	**12.46**	**AM53024**	45.55	**21.44**
13/32″	**AM50026**	19.30	**11.30**	**AM51026**	27.12	**12.78**	**AM52026**	28.58	**13.46**	**AM53026**	49.25	**23.41**
7/16″	**AM50028**	24.56	**11.67**	**AM51028**	27.43	**12.92**	**AM52028**	29.41	**13.84**	**AM53028**	51.64	**24.32**
15/32″	**AM50030**	28.30	**13.32**	**AM51030**	31.17	**14.81**	**AM52030**	33.19	**15.63**	**AM53030**	61.36	**28.89**
1/2″	**AM50032**	28.70	**13.51**	**AM51032**	32.29	**15.21**	**AM52032**	41.37	**19.48**	**AM53032**	66.88	**31.50**

24474

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

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

new product

Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Scratch	Clear	**PP1017725**	2.95	**2.37**
Clear	Anti-Scratch / Anti-Fog	Clear	**PP1017745**	3.77	**3.04**
Clear	Anti-Scratch	Black	**PP1018430**	6.55	**5.28**
Gray	Anti-Scratch	Black	**PP1018435**	6.55	**5.28**
I/O Mirror	Anti-Scratch	Black	**PP1018440**	7.25	**5.84**
Light Blue	Anti-Scratch	Black	**PP1018445**	6.55	**5.28**
Silver	Anti-Scratch	Black	**PP1018450**	7.05	**5.68**
Amber	Anti-Scratch	Black	**PP1018455**	6.55	**5.28**
Clear	Anti-Scratch / Anti-Fog	Black	**PP1018460**	7.72	**6.22**
Gray	Anti-Scratch / Anti-Fog	Black	**PP1018465**	7.68	**6.18**

29827

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

new product

Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Scratch	Clear	**PP1017635**	2.36	**1.91**
Gray	Anti-Scratch	Gray	**PP1017640**	2.36	**1.91**
Clear	Anti-Scratch / Anti-Fog	Clear	**PP1017660**	3.14	**2.53**
Clear	Anti-Scratch	Clear	**PP1017675**	2.36	**1.91**
Clear	Anti-Scratch / Anti-Fog	Clear	**PP1017685**	3.02	**2.43**
Clear	Uncoated	Clear	**PP1017690**	2.26	**1.83**

29825

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

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

new product

Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Scratch / Anti-Fog	Black	**PP1017710**	6.41	**5.16**

29824

Baseball Style Bump Cap with HDPE Protective Liner and Adjustable Back

- Ultra sleek design means the HardCap A1+™ is almost indistinguishable from a low-profile baseball cap
- The protective HDPE liner is removable, so the outer cap is fully washable with a plastic brim
- Unique size adjuster slides on an elastic strip to give a quick, secure fit. Angled downward to fit under nape of neck
- Terry cloth sweatband adds comfort and absorption for the wearer
- Holes in the liner match up with two mesh panels on the cap to provide added ventilation for coolness and comfort

new product

Color	Order No.	Regular Price	SALE
Black	**PP1032145**	46.38	**37.36**
Black/Orange	**PP1032155**	46.19	**37.21**
Navy	**PP1032160**	46.19	**37.21**
Blue/Yellow	**PP1032165**	46.19	**37.21**
Gray/Red	**PP1032170**	46.19	**37.21**
Camo	**PP1032175**	56.60	**45.59**
High Visibility Yellow	**PP1032180**	57.30	**46.16**
Hi Viz Orange	**PP1032185**	57.30	**46.16**
Black/Gray	**PP1032150**	46.19	**37.21**

29806

Cap Style Hard Hat Unvented 6-Point Polyester Suspension and Wheel Ratchet Adjustment

- High-Density Polyethylene (HDPE) shell designed with five raised channels running across the top for strength, and an extended back area for extra protection
- 6-Point polyester textile suspension system offers unrivaled comfort without compromising performance
- Revolution™ Wheel Ratchet is easy to use and creates a firm comfortable fit
- Meets ANSI/ISEA Z89.1, Type I, Class E requirements
- Also meets the ANSI requirements for Reverse Donning and Lower Temperature

new product

Color	Order No.	Regular Price	SALE
White	**PP1032470**	30.22	**24.35**
Lime/Yellow	**PP1032510**	31.53	**25.40**
Red	**PP1032505**	30.22	**24.35**
Blue	**PP1032500**	30.22	**24.35**
Gray	**PP1032495**	30.22	**24.35**
Pink	**PP1032490**	30.22	**24.35**
Green	**PP1032485**	30.22	**24.35**
Yellow	**PP1032480**	30.22	**24.35**
Bright Orange	**PP1032515**	31.53	**25.40**
Black	**PP1032475**	30.22	**24.35**

29807

ANSI Type R Class 2 Two Pocket Zipper Mesh Vest

- Breathable polyester mesh
- Zipper closure
- 2" silver reflective tape
- 1 internal lower pocket, 1 external chest pocket
- Available in hi-vis lime yellow and hi-vis orange

new product

Size	Length	Chest Size	Color	Order No.	Regular Price	SALE
S	24"	45"	Hi-Vis Yellow	**PP1038515**	10.63	**8.56**
M	28"	47"	Hi-Vis Yellow	**PP1038510**	10.63	**8.56**
L	28"	49.5"	Hi-Vis Yellow	**PP1038505**	10.63	**8.56**
XL	28"	52"	Hi-Vis Yellow	**PP1038520**	10.63	**8.56**
2XL	29"	54"	Hi-Vis Yellow	**PP1038480**	10.63	**8.56**
3XL	29"	56.5"	Hi-Vis Yellow	**PP1038485**	10.63	**8.56**

29802

ANSI Type R Class 2 Two-Tone Eleven Pocket Mesh Surveyors Vest

- Breathable polyester mesh
- 2" two-tone tape for optimum visibility
- Zipper closure
- 2 Mic tabs with reinforced stitching
- 11 Pocket construction

new product

Size	Length	Chest Size	Color	Order No.	Regular Price	SALE
S	27"	45"	Hi-Vis Yellow	**PP1037930**	22.45	**18.08**
M	27"	47.2"	Hi-Vis Yellow	**PP1037925**	22.45	**18.08**
L	28"	49.6"	Hi-Vis Yellow	**PP1037920**	22.45	**18.08**
XL	28"	52"	Hi-Vis Yellow	**PP1037935**	22.45	**18.08**
2XL	29"	54"	Hi-Vis Yellow	**PP1037900**	22.45	**18.08**
3XL	29"	56.7"	Hi-Vis Yellow	**PP1037905**	22.45	**18.08**

29803

Regular Grade Top Grain Cowhide Leather Drivers Glove - Keystone Thumb

- Top Grain Cowhide leather construction provides comfort, durability, excellent abrasion resistance, and breathability
- Drivers gloves feature slip-on styling to provide good fit and comfort
- Keystone thumb is ergonomic, reduces hand fatigue, offers superior dexterity and durability
- Elastic closure sewn inside glove for safety and comfort
- Meets the content requirements for Chromium VI free leather

new product

Size	Color	Material	Order No.	Regular Price	SALE
Medium	Natural	Leather	**PP1027070B**	8.62	**6.95**
Large	Natural	Leather	**PP1027074**	8.62	**6.95**
X-Large	Natural	Leather	**PP1027080B**	8.62	**6.95**
2X-Large	Natural	Leather	**PP1027076**	8.62	**6.95**

30724

TuffMax5™

- High performance polyethylene (HPPE) fiber shell is light-weight and provides excellent dexterity, tactile sensitivity and cut resistance
- MicroSurface nitrile-coated padded palm for enhanced wet & dry grip
- Thermoplastic rubber (TPR) molded finger, thumb and back of hand guards for maximum protection
- Reinforced leather between thumb and index finger
- Extended wrist|Hook and loop closure for easy on/off and a secure fit

new product

Size	Color	Material	Order No.	Regular Price	SALE
Medium	Hi-Viz Orange	Nitrile	**PP1026565**	45.05	**36.30**
Large	Hi-Viz Orange	Nitrile	**PP1026560**	45.05	**36.30**
X-Large	Hi-Viz Orange	Nitrile	**PP1026570**	45.05	**36.30**
2X-Large	Hi-Viz Orange	Nitrile	**PP1026575**	45.05	**36.30**

30725

"B/C" Grade Shoulder Split Cowhide Leather Double Palm Glove

with Fabric Back and Jointed Inner Palm - Rubberized Safety Cuff

new product

- Constructed from the most economical split cowhide available on the market today
- Double palm offers comfort, insulation and heat protection

Size	Color	Material	Order No.	Regular Price	SALE
Small	Gray	Leather	**PP1028230**	5.71	**4.60**
Medium	Gray	Leather	**PP1028225**	5.71	**4.60**
Large	Gray	Leather	**PP1028220**	5.71	**4.60**
X-Large	Gray	Leather	**PP1028235**	5.94	**4.79**

30726

Seamless Knit Nylon Glove with Nitrile Coated Foam Grip on Palm & Fingers

- High dexterity and tactility
- Tough foam nitrile coating for improved grip and durability
- Made with component materials that comply with federal regulations for food contact 21 CFR, 170-199
- Silicone Free
- Sold by the dozen priced by the pair

new product

Size	Color	Material	Order No.	Regular Price	SALE
Small	White	Nylon	**PP1030650**	7.87	**6.34**
Medium	White	Nylon	**PP1030645**	7.87	**6.34**
Large	White	Nylon	**PP1030640**	7.87	**6.34**
X-Large	White	Nylon	**PP1030655I**	7.87	**6.34**
2X-Large	White	Nylon	**PP1030657**	7.87	**6.34**

30727

G-Tek® Polykor™ Blended Glove - Double Dipped Nitrile

- Seamless construction offers increased comfort and breathability
- PolyKor™ shell is lightweight and provides excellent dexterity
- Double-dipped nitrile micro-surface coated palm and fingertips
- Knit wrist helps prevent dirt and debris from entering the glove
- Washable, resistant to chemicals, water, and ultraviolet light
- Extended cuff
- Sold by the dozen priced by the pair

new product

Size	Color	Cut Rating	Order No.	Regular Price	SALE
Small	Salt/Pepper	ANSI A4	**PP1021540**	10.57	**8.52**
Medium	Salt/Pepper	ANSI A4	**PP1021535**	10.57	**8.52**
Large	Salt/Pepper	ANSI A4	**PP1021530**	10.57	**8.52**
X-Large	Salt/Pepper	ANSI A4	**PP1021545**	10.57	**8.52**
2X-Large	Salt/Pepper	ANSI A4	**PP1021555**	10.57	**8.52**

30729

Seamless Knit Nylon Glove with Nitrile Coated MicroFoam Grip on Palm, Fingers & Knuckles - Micro Dot Palm

- High tactile sensitivity and dexterity
- Patented Micro-Foam nitrile coating offers 360° breathability for increased comfort
- Made with component materials that comply with federal regulations for food contact 21 CFR, 170-199
- Micro dots provide increased durability and grip
- Sold by the dozen priced by the pair

new product

Size	Color	Material	Order No.	Regular Price	SALE
Small	Gray	Nylon	**PP1030310**	115.63	**93.15**
Medium	Gray	Nylon	**PP1030305**	115.63	**93.15**
Large	Gray	Nylon	**PP1030300I**	9.63	**7.76**
X-Large	Gray	Nylon	**PP1030315I**	9.63	**7.76**
2X-Large	Gray	Nylon	**PP1030325**	115.63	**93.15**

30730

Seamless Knit Nylon Glove with Nitrile Coated MicroFoam Grip on Palm & Fingers - Micro Dot Palm

- High tactile sensitivity and dexterity
- Patented Micro-Foam nitrile coating offers 360° breathability for increased comfort
- Made with component materials that comply with federal regulations for food contact 21 CFR, 170-199
- Micro dots provide increased durability and grip
- Sold by the dozen priced by the pair

new product

Size	Color	Material	Order No.	Regular Price	SALE
Small	Gray	Nylon	**PP1030280**	9.02	**7.26**
Medium	Gray	Nylon	**PP1030275**	9.02	**7.26**
Large	Gray	Nylon	**PP1030270**	9.02	**7.26**
X-Large	Gray	Nylon	**PP1030285**	9.02	**7.26**
2X-Small	Gray	Nylon	**PP1030295**	9.02	**7.26**

30731

TIGER Long Life Premium Aluminum Oxide Cutting Wheels

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

					Arbor Hole - 7/8", Type 1			Arbor Hole - 5/8"-11, Type 27			Arbor Hole - 7/8", Type 27		
Diameter	Thickness	Grit	Specification	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	.045"	60	A60T	13,000	MK5157020	3.79	2.79	MK5157040	6.45	4.83	MK5157041	4.01	3.05
4 1/2"	1/4"	24	A24R	13,000	-	-	-	MK5157120	7.20	5.33	MK5157121	4.20	3.18

25434

WEILER TIGER Premium Aluminum Oxide Grinding Wheels

- Delivers the right combination of performance and value
- Premium aluminum oxide grains provide an even, sharp, clean cut and a hard bond extends life and maximizes performances
- Type 27 designed with fiberglass cut back from the edge to provide instant aggressive grinding on new wheels

					5/8"-11			7/8"		
Diam.	Thick-ness	Specifi-cation	Max. RPM	Stan-dard Pack	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
4 1/2"	1/4"	A24R	13,000	10	MK5157120	7.20	5.33	MK5157121	4.20	3.18
5"	1/4"	A24R	12,200	10	MK5157122	8.77	6.48	MK5157123	5.97	4.45
6"	1/4"	A24R	10,200	10	MK5157128	11.16	8.26	MK5157129	7.01	5.21
7"	1/4"	A24R	8,500	10	MK5157124	12.11	8.89	MK5157125	8.55	6.35
9"	1/4"	A24R	6,600	10	MK5157126	15.19	11.18	MK5157127	12.30	9.14

21977

TIGER Zirc Tiger Flap Disc - Aluminum Back

- Durable, self-sharpening zirconia alumina
- Type 29 angled style for weld blending, deburring, deflashing, edge chamfering, stock removal, and grinding and finishing in one step
- Aluminum backing for rigid support

Arbor Hole - 5/8"-11				
Diameter	Grit	Order No.	Regular Price	SALE
4-1/2"	36	MK5150517	17.05	12.57
4-1/2"	40	MK5150518	17.05	12.57
4-1/2"	60	MK5150519	17.05	12.57
4-1/2"	80	MK5150520	17.05	12.57
4-1/2"	120	MK5150509	17.52	12.95

Arbor Hole - 7/8"				
Diameter	Grit	Order No.	Regular Price	SALE
4-1/2"	36	MK5150512	15.14	11.18
4-1/2"	40	MK5150513	15.14	11.18
4-1/2"	60	MK5150514	15.14	11.18
4-1/2"	80	MK5150515	15.14	11.18
4-1/2"	120	MK5150516	15.14	11.18

806

WEILER Stringer Bead Wire Wheels

Diameter	Width	Maximum RPM	Order No.	Regular Price	SALE
6 7/8"	3/16"	9,000	MK5109000	46.85	34.42
6"	3/16"	12,500	MK5109400	49.82	36.58
4"	3/16"	20,000	MK5113131	31.71	23.37
4"	3/16"	20,000	MK5113138	56.72	41.66
4 1/2"	3/16"	12,500	MK5113232	34.38	25.27
4 1/2"	3/16"	12,500	MK5113238	64.74	47.63
7"	1/2"	12,500	MK5179800	41.66	30.61
4"	-	12,500	MK5179801	38.08	28.07

25433

3M Stikit™ Disc Rolls 236U

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

Diameter - 6"			
Grit	Order No.	Regular Price	SALE
P80	TM1155560	121.93	88.27
P120	TM1155562	112.57	81.53
P320	TM1155567	112.57	81.53
400	TM1186476	112.57	81.53

Diameter - 5"			
Grit	Order No.	Regular Price	SALE
P150	TM1155543	79.69	57.79
120	TM1186490	79.69	57.79
180	TM1186492	79.69	57.79
320	TM1186495	68.54	49.66

149

DESMOND Huntington Pattern Hooded Grinding Wheel Dresser Model No. 0

- Designed for dressing, truing & removing glaze
- Fulfills most general dressing needs where fast dressing is required
- Cutters have a star shaped teeth that expose new abrasive grains
- For up to 10" diameter wheels with 2" face or less
- Replacement cutter sets are available

Order No.	Regular Price	SALE
LG500	25.58	22.48

23077

NORTON Pocket Stones

- Convenient and easily transported
- Ideal for outdoor enthusiasts for sharpening scissors, knives, axes, etc.
- Available in a protective case

Overall Length	Width	Thick-ness	Grade	Order No.	Regular Price	SALE
4"	3/4"	1/4"	Fine	MH6424153	15.04	12.07
3"	1 1/2"	1/2"	Coarse/ Fine	MH6490705	20.14	16.13

475

Fast Cut Stationary Saw Wheels

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

Diam.	Thickness	Arbor Hole	Specification	Max. RPM	Standard Pack	Order No.	Regular Price	SALE
12″	1/8″	1″	A24-RBF	5100	10	**MG9070105**	8.76	**6.86**
14″	1/8″	5/8″	A24-QBF	4400	10	**MG9036233**	9.49	**7.37**
16″	5/32″	1″	A24-RBF	3820	10	**MG9070106**	27.19	**21.08**
20″	5/32″	1″	A24-RBF	3100	10	**MG9070108**	40.56	**31.50**
20″	3/16″	1″	A24-RBF	3100	10	**MG9070109**	45.79	**35.56**
20″	3/16″	1″	A24-RBF	3100	10	**MG9070147**	52.54	**40.77**

215

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.	Thick-ness	Arbor Hole	Specification	Max. RPM	Standard Pack	Order No.	Regular Price	SALE
1 1/2″	1/32″	1/4″	A60-RBF	45000	50	**MG9035687**	2.45	**1.91**
1 1/2″	1/16″	1/4″	A60-RBF	45000	50	**MG9035688**	2.08	**1.65**
2″	1/32″	3/8″	A60-RBF	30000	50	**MG9035689**	1.89	**1.52**
2″	1/16″	1/4″	A36-TBF	30000	50	**MG9045066**	2.45	**1.91**
2″	1/16″	3/8″	A36-RBF	30000	50	**MG9035690**	2.08	**1.65**
2″	1/8″	3/8″	A24-RBF	30000	50	**MG9035691**	2.69	**2.16**
3″	1/32″	1/4″	A60-RBF	25000	50	**MG9035500**	1.96	**1.52**
3″	1/32″	3/8″	A60-RBF	25000	50	**MG9035501**	1.96	**1.52**
3″	1/16″	1/4″	A36-RBF	25000	50	**MG9035502**	1.96	**1.52**
3″	1/16″	1/4″	A60-RBF	25000	50	**MG9045085**	1.93	**1.52**
3″	1/16″	3/8″	A36-RBF	25000	50	**MG9035503**	1.93	**1.52**
3″	1/16″	3/8″	A60-RBF	25000	50	**MG9045086**	1.93	**1.52**
3″	1/8″	1/4″	A24-RBF	25000	50	**MG9035504**	2.21	**1.78**
3″	1/8″	3/8″	A24-RBF	25000	50	**MG9035505**	2.21	**1.78**
4″	1/32″	1/4″	A60-RBF	19100	50	**MG9035506**	2.45	**1.91**
4″	1/32″	3/8″	A60-RBF	19100	50	**MG9035507**	2.45	**1.91**
4″	1/16″	1/4″	A36-RBF	19100	50	**MG9035508**	2.73	**2.16**
4″	1/16″	1/4″	A60-RBF	19100	50	**MG9045088**	2.73	**2.16**
4″	1/16″	3/8″	A36-RBF	19100	50	**MG9035509**	2.73	**2.16**
4″	1/16″	3/8″	A60-RBF	19100	50	**MG9045087**	2.73	**2.16**
4″	1/16″	5/8″	A36-RBF	19100	50	**MG9035510**	3.51	**2.79**
4″	1/8″	1/4″	A24-RBF	19100	50	**MG9035511**	3.93	**3.05**
4″	1/8″	3/8″	A24-RBF	19100	50	**MG9035512**	2.84	**2.29**

Aluminum Oxide, Fast Cut								
Diam.	Thick-ness	Arbor Hole	Specification	Max. RPM	Standard Pack	Order No.	Regular Price	SALE
3″	1/32″	1/4″	A60-RBF	25000	50	**MG9059102**	1.37	**1.14**
3″	1/32″	3/8″	A60-RBF	25000	50	**MG9059103**	1.37	**1.14**
3″	1/16″	1/4″	A36-RBF	25000	50	**MG9059104**	1.26	**1.02**
3″	1/16″	3/8″	A36-RBF	25000	50	**MG9059105**	1.26	**1.02**
4″	1/32″	1/4″	A60-RBF	19100	50	**MG9059106**	1.50	**1.27**
4″	1/32″	3/8″	A60-RBF	19100	50	**MG9059107**	1.50	**1.27**
4″	1/16″	3/8″	A36-RBF	19100	50	**MG9059108**	1.50	**1.27**

236

Super Quickie Cut Reinforced Cut-Off Wheels

Type 1 & Type 27
#1 Wheel choice for steel applications.

						Type 1			Type 27		
Diam.	Thick-ness	Arbor Hole	Max. RPM	Specifica-tion	Stan-dard Pack	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
4 1/2″	.045″	7/8″	13300	A60-TBF	50	**MG9045102**	3.99	**3.18**	**MG9045103**	4.06	**3.18**

22873

Quickie Cut™ Reinforced Cut-off Wheels

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

Diameter	Thick-ness	Arbor Hole	Specification	Order No.	Regular Price	SALE
4 1/2″	.045″	7/8″	A36-TBF	**MG9035514**	2.93	**2.29**
6″	.045″	7/8″	A36-TBF	**MG9035517**	3.78	**3.05**
4 1/2″	.035″	7/8″	A60-TB Flex	**MG9045010**	2.93	**2.29**
6″	.040″	7/8″	A60-TB Flex	**MG9045012**	3.78	**3.05**

22862

Zirconia Premium Small Cut-Off Wheels - Type 1

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

Diam.	Thick-ness	Arbor Hole	Specification	Maximum RPM	Order No.	Regular Price	SALE
3″	1/16″	1/4″	ZA36-TBF	23900	**MG9036173**	3.78	**3.05**
3″	1/16″	3/8″	ZA36-TBF	23900	**MG9036174**	3.78	**3.05**
3″	1/32″	1/4″	ZA60-TBF	23900	**MG9036175**	3.60	**2.79**
3″	1/32″	3/8″	ZA60-TBF	23900	**MG9036176**	3.60	**2.79**
4″	1/16″	1/4″	ZA36-TBF	19100	**MG9036177**	5.12	**4.06**
4″	1/16″	3/8″	ZA36-TBF	19100	**MG9036178**	4.97	**3.94**
4″	1/32″	1/4″	ZA60-TBF	19100	**MG9036179**	4.23	**3.30**
4″	1/32″	3/8″	ZA60-TBF	19100	**MG9036180**	4.38	**3.43**

22877

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**	2.75	**2.03**
3″	0.035″	3/8″	**MH60030010628**	2.75	**2.03**
3″	1/16″	1/4″	**MH60030010645**	2.75	**2.03**
3″	1/16″	3/8″	**MH60030010647**	2.75	**2.03**
3″	1/16″	1/4″	**MH60030010649**	2.67	**2.03**
4″	0.035″	1/4″	**MH60040010629**	3.73	**2.79**
4″	0.035″	3/8″	**MH60040010630**	4.21	**3.05**
4″	1/16″	1/4″	**MH60040010654**	3.73	**2.79**
4″	1/16″	3/8″	**MH60040010655**	3.73	**2.79**

Blue Fire					
Diameter	Thickness	Arbor Hole	Order No.	Regular Price	SALE
3″	0.035″	3/8″	**MH60030028629**	11.32	**8.13**
3″	0.035″	3/8″	**MH60030043174**	4.02	**2.92**
3″	1/16″	3/8″	**MH60030043175**	4.09	**3.05**
4″	1/16″	3/8″	**MH60040043171**	5.55	**4.06**
4″	0.035″	3/8″	**MH60040043173**	5.55	**4.06**

24139

NORTON Reinforced Toolroom Cut-Off Wheels

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

Diam.	Thickness	Arbor Hole	Specification	Order No.	Regular Price	SALE
3"	0.06"	1/4"	A60-OBNA2	MH60030028471	9.47	6.86
3"	0.06"	3/8"	A60-OBNA2	MH60030028552	9.47	6.86
4"	0.035"	3/8"	A60-OBNA2	MH60040029621	8.95	6.48
6"	0.035"	1/2"	A60-OBNA2	MH60060035053	16.96	12.19
6"	0.035"	5/8"	A60-OBNA2	MH60060035054	16.96	12.19
6"	0.06"	1/2"	A60-OBNA2	MH60060035164	34.40	24.64
6"	0.06"	1-1/4"	A60-OBNA2	MH60060035165	37.28	26.80
7"	1/16"	5/8"	57A364-TB25N	MH60070022673	39.42	28.32
7"	0.035"	5/8"	A60-OBNA2	MH60070038787	39.42	28.32
7"	0.035"	1-1/4"	A60-OBNA2	MH60070038788	39.42	28.32
7"	0.06"	1-1/4"	A602-OBNA2	MH60070038796	39.42	28.32
7"	0.06"	5/8"	A60-OBNA2	MH60070038811	39.42	28.32
8"	0.035"	5/8"	A60-OBNA2	MH60080042979	46.75	33.53
8"	0.06"	5/8"	A60-OBNA2	MH60080042981	46.75	33.53
8"	0.06"	1-1/4"	A60-OBNA2	MH60080042983	46.75	33.53

24155

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

Diam.	Arbor Hole	Thickness	Grit	Order No.	Regular Price	SALE
2"	1/4"	1/8"	24	SP010201252124A	4.37	2.79
2"	1/4"	1/8"	36	SP010201252136A	4.41	2.79
2"	1/4"	1/8"	46	SP010201252146A	4.19	2.67
2"	3/8"	1/8"	24	SP010201253124A	4.37	2.79
2"	3/8"	1/8"	36	SP010201253136A	4.41	2.79
2"	3/8"	1/8"	46	SP010201253146A	4.19	2.67
3"	1/4"	1/8"	24	SP010301252124A	2.99	1.91
3"	1/4"	1/8"	36	SP010301252136A	2.99	1.91
3"	1/4"	1/8"	46	SP010301252146A	2.93	1.91
3"	3/8"	1/8"	24	SP010301253124A	3.46	2.16
3"	3/8"	1/8"	36	SP010301253136A	2.99	1.91
3"	3/8"	1/8"	46	SP010301253146A	2.97	1.91
4"	1/4"	1/8"	24	SP010401252124A	4.19	2.67
4"	1/4"	1/8"	36	SP010401252136A	4.18	2.67
4"	1/4"	1/8"	46	SP010401252146A	4.54	2.92
4"	3/8"	1/8"	24	SP010401253124A	4.18	2.67
4"	3/8"	1/8"	36	SP010401253136A	4.18	2.67
4"	3/8"	1/8"	46	SP010401253146A	4.54	2.92
4"	5/8"	1/8"	24	SP010401255124A	4.18	2.67
4"	5/8"	1/8"	36	SP010401255136A	4.18	2.67
4"	5/8"	1/8"	46	SP010401255146A	4.54	2.92

25162

SURF PRO Thin Flex Cut-Off Wheels

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

Diameter	Arbor Hole	Thickness	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	.035"	60	SP010450357160Z	2.93	1.91
4 1/2"	7/8"	.045"	60	SP010450457760Z	3.07	1.91
5"	7/8"	.040"	60	SP010500407160Z	3.07	1.91
6"	7/8"	.040"	60	SP010600407160Z	4.36	2.79

25178

SURF PRO Wheel Adapters / Cut Off Wheel Mandrels

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

Mandrel Adapter, Screw Head						
Arbor Hole	Shank	Length	Washer OD	Order No.	Regular Price	SALE
1/4"	1/4"	2.15"	3/4"	SP24001414SH	9.80	7.62
1/4" or 3/8"	1/4"	2.15"	3/4"	SP24143814SH	11.24	8.76
3/8"	1/4"	2.15"	3/4"	SP24003814SH	9.80	7.62

Arbor Adapter, Nut Type						
Arbor Hole	Shank	Length	Washer OD	Order No.	Regular Price	SALE
1/4"	1/4"	2.50"	1"	SP24001414NT	9.25	7.24
3/8"	1/4"	2.50"	1"	SP24003814NT	9.25	7.24
1/2"	1/4"	2.50"	1 1/2"	SP24001214NT	10.08	7.87

696

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.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
-	-	-	-	-	-	-	SP12SR20CRO	77.53	60.07
40	SP12SR10040A	22.66	17.65	SP12SR15040A	32.45	25.15	SP12SR20040A	42.48	32.89
50	SP12SR10050A	22.20	17.27	SP12SR15050A	31.77	24.64	SP12SR20050A	41.66	32.26
60	SP12SR10060A	21.52	16.76	SP12SR15060A	30.86	24.00	SP12SR20060A	40.43	31.37
80	SP12SR10080A	20.50	15.88	SP12SR15080A	29.40	22.86	SP12SR20080A	38.51	29.85
100	SP12SR10100A	19.93	15.49	SP12SR15100A	28.81	22.35	SP12SR20100A	37.33	28.96
120	SP12SR10120A	19.93	15.49	SP12SR15120A	28.81	22.35	SP12SR20120A	37.33	28.96
150	SP12SR10150A	19.93	15.49	SP12SR15150A	28.81	22.35	SP12SR20150A	37.33	28.96
180	SP12SR10180A	19.93	15.49	SP12SR15180A	28.81	22.35	SP12SR20180A	37.33	28.96
220	SP12SR10220A	19.93	15.49	SP12SR15220A	28.81	22.35	SP12SR20220A	37.33	28.96
240	SP12SR10240A	19.93	15.49	SP12SR15240A	28.81	22.35	SP12SR20240A	37.33	28.96
320	SP12SR10320A	19.93	15.49	SP12SR15320A	28.81	22.35	SP12SR20320A	37.33	28.96
400	SP12SR10400A	19.93	15.49	SP12SR15400A	28.81	22.35	SP12SR20400A	37.33	28.96

25149

3M 6" x 9" Hand Pads

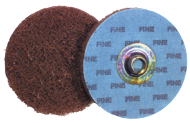
- Excellent products for hand finishing and cleaning of woods, metals and composites
- Ideal for wood finishing, paint prep and general cleaning
- Priced each / sold in standard pack of 20 only
- Save up to 10% on case qty. (60 pieces)

Color	Grade	Order No.	Regular Price	SALE
Light Gray	Ultra Fine	TM2204028	3.43	2.92
Maroon	Very Fine	TM2204029	3.86	3.30
Tan	Coarse	TM2265055	7.52	6.48
Gray	Medium	TM2265056	5.07	4.32

22601

STANDARD ABRASIVES Buff & Blend Quick Change Discs

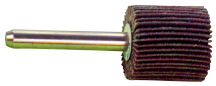
- Soc-Att style (turn-on style)
- Fast removal of light oxidation
- Blending minor imperfections
- Prepping surfaces for painting



	Medium			Fine			Very Fine		
Diam.	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 1/2"	MM75840212	1.58	1.40	MM75840213	1.53	1.40	MM75840215	1.53	1.40
2"	MM75840312	1.72	1.52	MM75840313	1.62	1.52	MM75840315	1.62	1.52
3"	MM75840412	2.77	2.54	MM75840413	2.51	2.29	MM75840415	2.51	2.29

25027

CGW Coated Abrasive Mounted Flap Wheels



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

Diameter	Face Width	Grit	Order No.	Regular Price	SALE
1"	1"	120	MH50143120	5.41	4.32
1"	1"	60	MH5014360	5.28	4.19
1"	1"	80	MH5014380	5.28	4.19
1 1/2"	1"	120	MH50155120	5.91	4.70
1 1/2"	1"	60	MH5015560	5.91	4.70
1 1/2"	1"	80	MH5015580	5.91	4.70
2"	1"	120	MH50163120	9.14	7.24
2"	1"	60	MH5016360	8.27	6.48
2"	1"	80	MH5016380	8.27	6.48
2 1/2"	1"	120	MH50171120	12.44	9.78
2 1/2"	1"	60	MH5017160	12.44	9.78
2 1/2"	1"	80	MH5017180	12.44	9.78
3"	1"	120	MH50179120	13.80	10.80
3"	1"	60	MH5017960	12.37	9.78
3"	1"	80	MH5017980	12.93	10.16

22848

3M Scotch-Brite™ Roloc™ Surface Conditioning Discs

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

Diam.	Maximum RPM	Grade	Color	Standard Pack	Order No.	Regular Price	SALE
1"	30,000	Medium	Maroon	200	TM2115392	1.59	1.40
1"	30,000	Very Fine	Blue	200	TM2115391	1.59	1.40
1 1/2"	30,000	Coarse	Brown	50	TM2108764	1.63	1.52
1 1/2"	30,000	Medium	Maroon	50	TM2108765	1.63	1.52
1 1/2"	30,000	Very Fine	Blue	50	TM2108766	1.63	1.52
2"	25,000	Coarse	Brown	50	TM2105528	2.36	1.91
2"	25,000	Medium	Maroon	50	TM2105527	2.36	1.91
2"	25,000	Medium	Maroon	50	TM2133791	2.53	2.29
2"	25,000	Very Fine	Blue	50	TM2105523	2.36	1.91
3"	18,000	Coarse	Brown	25	TM2105532	4.49	3.94
3"	18,000	Medium	Maroon	25	TM2105531	4.49	3.94
3"	18,000	Very Fine	Blue	25	TM2105530	4.49	3.94
4"	12,000	Coarse	Brown	4	TM2312954	6.50	5.59

Holder: MM59-64922

142

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	25,000	TM1122398	1.78	1.40
50	25,000	TM1122399	1.72	1.27
60	25,000	TM1122400	1.62	1.27
80	25,000	TM1122401	2.25	1.40

Holder: MM59-64922

22599

PASCO 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	1.15	1.02
8"	120/120	100	MG9452932	0.72	0.64
8"	180/180	100	MG9452933	0.88	0.76
8"	240/240	100	MG9452934	0.59	0.51
8"	320/400	100	MG9452935	0.59	0.51
8"	400/800	100	MG9452936	0.59	0.51
8"	600/1200	100	MG9452937	0.59	0.51
12"	60/60	100	MG9452938	2.56	2.29
12"	120/120	100	MG9452939	1.49	1.27
12"	180/180	100	MG9452940	1.31	1.14
12"	240/240	100	MG9452941	1.21	1.14
12"	320/400	100	MG9452942	1.21	1.14
12"	400/800	100	MG9452943	1.21	1.14
12"	600/1200	100	MG9452944	1.21	1.14

PSA					
Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
8"	60/P60	100	MG9452945	1.46	1.27
8"	120/P120	100	MG9452946	1.03	0.89
8"	180/P180	100	MG9452947	0.94	0.89
8"	240/P240	100	MG9452948	0.88	0.76
8"	320/P400	100	MG9452949	0.88	0.76
8"	400/P800	100	MG9452950	0.88	0.76
8"	600/P1200	100	MG9452951	0.88	0.76
12"	60/P60	100	MG9452952	3.23	2.79
12"	120/P120	100	MG9452953	3.20	2.79
12"	180/P180	100	MG9452954	1.92	1.65
12"	240/P240	100	MG9452955	1.94	1.78
12"	320/P400	100	MG9452956	1.78	1.52
12"	400/P800	100	MG9452957	1.78	1.52
12"	600/P1200	100	MG9452958	1.78	1.52

261

3M PSA Discs - 248D

- Aluminum oxide - X wt. cloth
- Heavy-duty, cloth-backed discs for more aggressive applications
- Provides excellent adhesion while removing easily

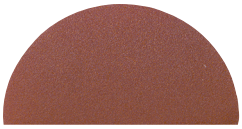
6"				
Grit	Standard Pack	Order No.	Regular Price	SALE
50	50	TM1120879	3.14	2.29
60	50	TM1120878	2.95	2.16
80	50	TM1120877	2.79	2.03
100	50	TM1120876	2.61	1.91
120	50	TM1121497	2.61	1.91

8"				
Grit	Standard Pack	Order No.	Regular Price	SALE
36	50	TM1120874	6.20	4.57
40	50	TM1120873	5.90	4.32
60	50	TM1120871	5.35	3.94
80	50	TM1120870	5.08	3.68
120	50	TM1120868	4.85	3.56

12"				
Grit	Standard Pack	Order No.	Regular Price	SALE
36	10	TM1188906	14.46	10.54
40	10	TM1188905	13.65	9.91
60	10	TM1188903	12.13	8.89
80	10	TM1188902	11.46	8.38
100	10	TM1188901	10.80	7.87

22594

SURF PRO Aluminum Oxide Cloth PSA Discs-No Hole Type



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

	40			60			80			100			120			36		
Diam.	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	0.35	0.38	SP11PSAD02060A	0.32	0.25	SP11PSAD02080A	0.28	0.25	SP11PSAD02100A	0.25	0.25	SP11PSAD02120A	0.24	0.25	-	-	-
3"	SP11PSAD03040A	0.63	0.51	SP11PSAD03060A	0.63	0.51	SP11PSAD03080A	0.56	0.51	SP11PSAD03100A	0.46	0.38	SP11PSAD03120A	0.46	0.38	-	-	-
5"	SP11PSAD05040A	4.09	3.18	SP11PSAD05060A	1.17	1.02	SP11PSAD05080A	1.06	0.89	SP11PSAD05100A	0.98	0.76	SP11PSAD05120A	0.98	0.76	SP11PSAD05036A	1.41	1.14
6"	SP11PSAD06040A	1.73	1.40	SP11PSAD06060A	1.58	1.27	SP11PSAD06080A	1.51	1.27	SP11PSAD06100A	1.45	1.14	SP11PSAD06120A	1.45	1.14	SP11PSAD06036A	2.00	1.65
8"	SP11PSAD08040A	3.06	2.41	SP11PSAD08060A	2.92	2.29	SP11PSAD08080A	2.79	2.16	SP11PSAD08100A	2.64	2.16	SP11PSAD08120A	2.64	2.16	SP11PSAD08036A	3.70	2.92
9"	SP11PSAD09040A	5.39	4.19	SP11PSAD09060A	5.00	3.94	SP11PSAD09080A	4.68	3.68	SP11PSAD09100A	4.54	3.56	SP11PSAD09120A	4.54	3.56	SP11PSAD09036A	5.63	4.45
10"	SP11PSAD10040A	6.58	5.21	SP11PSAD10060A	6.06	4.70	SP11PSAD10080A	5.74	4.45	SP11PSAD10100A	5.56	4.32	SP11PSAD10120A	5.82	4.57	SP11PSAD10036A	6.86	5.33
12"	SP11PSAD12040A	7.10	5.59	SP11PSAD12060A	6.47	5.08	SP11PSAD12080A	6.12	4.83	SP11PSAD12100A	5.82	4.57	SP11PSAD12120A	5.82	4.57	SP11PSAD12036A	8.07	6.35
15"	SP11PSAD15040A	14.75	11.43	SP11PSAD15060A	12.96	10.03	SP11PSAD15080A	12.82	10.03	SP11PSAD15100A	12.44	9.65	-	-	-	SP11PSAD15036A	15.30	11.94
16"	SP11PSAD16040A	13.74	10.67	SP11PSAD16060A	12.22	9.53	SP11PSAD16080A	11.51	9.02	SP11PSAD16100A	10.32	8.00	SP11PSAD16120A	10.85	8.51	SP11PSAD16036A	14.55	11.30
20"	SP11PSAD20040A	17.85	13.84	SP11PSAD20060A	17.14	13.34	SP11PSAD20080A	16.09	12.57	SP11PSAD20100A	14.78	11.56	SP11PSAD20120A	14.78	11.56	SP11PSAD20036A	23.80	18.54
24"	SP11PSAD24040A	36.57	28.32	SP11PSAD24060A	35.48	27.56	SP11PSAD24080A	33.53	26.04	SP11PSAD24100A	31.01	24.00	SP11PSAD24120A	31.01	24.00	SP11PSAD24036A	41.83	32.39

25147

CGW Resin Fiber Discs

Premium Aluminum Oxide:

- Designed for long life, high stock removal and cool cutting action on metal and welds.

Zirconia Alumina:

- High concentration of Zirconia and heat-treated AO grain provides twice the cutting action of premium AO discs and is extremely heat resistant

Diameter - 4 1/2"							
		Zirconia Alumina			Aluminum Oxide		
Arbor Hole	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
7/8"	36	MG9048102	1.33	1.14	MG9048012	0.91	0.76
7/8"	50	MG9048104	1.62	1.27	MG9048014	0.87	0.76
7/8"	60	MG9048105	1.47	1.14	MG9048015	0.87	0.76
7/8"	80	MG9048106	1.05	0.89	MG9048016	0.84	0.76
7/8"	100	-	-	-	MG9048017	0.84	0.76
7/8"	120	-	-	-	MG9048018	0.84	0.76

Diameter - 5"							
		Zirconia Alumina			Aluminum Oxide		
Arbor Hole	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
7/8"	16	-	-	-	MG9048020	1.23	1.02
7/8"	24	MG9048111	1.76	1.40	MG9048021	1.02	0.89
7/8"	36	MG9048112	1.62	1.27	MG9048022	1.09	0.89
7/8"	50	MG9048114	1.43	1.14	MG9048024	1.05	0.89
7/8"	60	MG9048115	1.57	1.27	MG9048025	1.02	0.89
7/8"	80	MG9048116	1.50	1.27	MG9048026	0.98	0.76

22869

SURF PRO Air Cooled Quick Change Holder Pads

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

Diameter	Disc Mount	Order No.	Regular Price	SALE
1 1/2"	TR	SP24QCH15TR14SC	14.43	9.02
1 1/2"	TS	SP24QCH15TS14SC	14.43	9.02
2"	TR	SP24QCH20TR14SC	15.05	9.40
2"	TS	SP24QCH20TS14SC	15.05	9.40
3"	TR	SP24QCH30TR14SC	16.90	10.54
3"	TS	SP24QCH30TS14SC	16.90	10.54
4"	TR	SP24QCH40TR14SC	27.03	16.76
4"	TS	SP24QCH40TS14SC	27.03	16.76

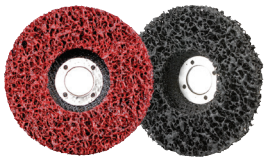
25166

SURF PRO Ceramic Grain Quick Change Abrasive Discs

		Roll-On			Turn-On		
Diameter	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 1/2"	24	SP11QCR15024C	1.02	0.89	SP11QCT15024C	1.02	0.89
1 1/2"	36	SP11QCR15036C	0.91	0.76	SP11QCT15036C	0.98	0.76
1 1/2"	40	SP11QCR15040C	0.88	0.76	SP11QCT15040C	0.88	0.76
1 1/2"	50	SP11QCR15050C	0.84	0.76	SP11QCT15050C	0.84	0.76
1 1/2"	60	SP11QCR15060C	0.78	0.64	SP11QCT15060C	0.78	0.64
1 1/2"	80	SP11QCR15080C	0.74	0.64	SP11QCT15080C	0.74	0.64
1 1/2"	100	SP11QCR15100C	0.74	0.64	SP11QCT15100C	0.74	0.64
1 1/2"	120	SP11QCR15120C	0.74	0.64	SP11QCT15120C	0.74	0.64
2"	24	SP11QCR20024C	1.19	1.02	SP11QCT20024C	1.19	1.02
2"	36	SP11QCR20036C	1.17	1.02	SP11QCT20036C	1.09	0.89
2"	40	SP11QCR20040C	1.09	0.89	SP11QCT20040C	1.09	0.89
2"	50	SP11QCR20050C	0.99	0.89	SP11QCT20050C	1.02	0.89
2"	60	SP11QCR20060C	0.91	0.76	SP11QCT20060C	0.84	0.76
2"	80	SP11QCR20080C	0.88	0.76	SP11QCT20080C	0.88	0.76
2"	100	SP11QCR20100C	0.88	0.76	SP11QCT20100C	0.80	0.64
2"	120	SP11QCR20120C	0.88	0.76	SP11QCT20120C	0.88	0.76

25155

CGW EZ Red Heavy Duty Strip Wheels



- Non-woven material for cleaning welds and fast removal of rust, scaling, oxidation, paints, sealants, and other clogging materials
- Can be used on stainless steel, steel, aluminum, titanium, non-ferrous metals, fibre glass, stone and wood
- Red rigid wheels for faster working on angled and irregular surfaces
- Black wheels clean surfaces and can provide a satin finish

Diameter	Color	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	Black	11000	MG9059201	17.97	13.97
4 1/2"	Red	11000	MG9059205	17.77	13.84
4 1/2"	Black	11000	MG9059200	14.12	11.05
4 1/2"	Red	11000	MG9059204	14.99	11.68
7"	Black	7000	MG9059202	29.49	22.86
7"	Red	7000	MG9059206	32.82	25.53
7"	Black	7000	MG9059203	33.59	26.04
7"	Red	7000	MG9059207	36.92	28.58

28633

NORTON NORTON SG BLAZE Belts for Portable Sanders

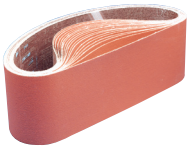
Blaze Belts
- Lasts 50% to 200% longer on mild and carbon steel, stainless, cobalt, chrome, inconel, and titanium
- Cuts cooler and 30% faster than current generation belts
- Lowers total grinding cost

New Improved Y-Weight Polyester Cloth Back
- Better grain adhesion - edge fray resistance
- More consistent grind throughout extended belt life

Width	Length	Grit	Standard Pack	Order No.	Regular Price	SALE
1/2"	12"	40	200	MH61B0098018	3.46	2.79
1/2"	12"	60	200	MH61B0098019	3.33	2.67
1/2"	12"	80	200	MH61B0098020	3.23	2.67
1/2"	18"	40	200	MH61B0098021	3.67	3.05
1/2"	18"	60	200	MH61B0098022	3.51	2.92
1/2"	18"	80	200	MH61B0098023	3.38	2.79
1/2"	24"	40	200	MH61B0098024	4.06	3.30
1/2"	24"	60	200	MH61B0098025	3.83	3.18
1/2"	24"	80	200	MH61B0098026	3.51	2.92
3/4"	18"	40	200	MH61B0098027	4.12	3.30
3/4"	18"	60	200	MH61B0098028	3.90	3.18
3/4"	18"	80	200	MH61B0098029	3.63	2.92
3/4"	20-1/2"	40	200	MH61B0098030	4.23	3.43
3/4"	20-1/2"	60	200	MH61B0098031	4.06	3.30
3/4"	20 1/2"	80	200	MH61B0098032	3.84	3.18

10727

3M Abrasive Belts - 241D

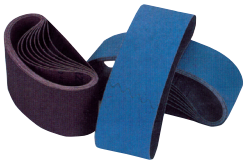


- Aluminum oxide - X wt. cloth
- Excellent all around abrasive belt for blending and finishing

Width	Length	Grit	Order No.	Regular Price	SALE
1"	42"	60	TM1001450	3.69	3.18
1"	42"	80	TM1001451	3.34	2.92
1"	42"	100	TM1001452	3.14	2.67
1"	42"	120	TM1001453	3.14	2.67
6"	48"	60	TM1001457	16.24	13.84
6"	48"	80	TM1010454	14.77	12.57
6"	48"	100	TM1010455	13.83	11.81
6"	48"	120	TM1010456	13.83	11.81
2"	72"	180	TM1026309	5.92	5.08
2"	72"	60	TM1026316	6.97	5.97
2"	72"	80	TM1033067	6.32	5.46
2"	72"	240	TM1081752	5.92	5.08

22576

NORTON Abrasive Belts



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

			Aluminum Oxide			Zirconia Alumina		
Width	Length	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
6"	48"	36	MH61B0422095	8.14	6.60	MH61B0627698	22.38	17.91
6"	48"	40	MH61B0120900	3.33	2.67	MH61B0627697	21.29	17.02
6"	48"	40	MH61B0622585	24.93	19.94	MH61B0628937	18.84	15.11
6"	48"	60	MH61B0622575	18.42	14.73	MH61B0628931	16.57	13.34
2"	48"	80	MH61B0622570	14.40	11.56	MH61B0227099	6.01	4.83
2"	48"	120	MH61B0622560	13.92	11.18	MH61B0228615	5.85	4.70

24108

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

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

Grit	Order No.	Regular Price	SALE
60	SP12S911060S	0.96	0.76
80	SP12S911080S	0.94	0.76
120	SP12S911120S	0.90	0.76
150	SP12S911150S	0.78	0.64
180	SP12S911180S	0.64	0.51
220	SP12S911220S	0.64	0.51
240	SP12S911240S	0.64	0.51
280	SP12S911280S	0.64	0.51
320	SP12S911320S	0.64	0.51
360	SP12S911360S	0.63	0.51
400	SP12S911400S	0.63	0.51
500	SP12S911500S	0.63	0.51
600	SP12S911600S	0.63	0.51
1000	SP12S9111000S	0.63	0.51

10739

NORTON 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	2.55	2.16
P80	25	MH61S91126340	2.17	1.78
P100	50	MH61S91126339	2.04	1.65
P120	50	MH61S91126338	2.04	1.65
P150	50	MH61S91126337	2.04	1.65
P180	50	MH61S91126336	2.04	1.65
P240	50	MH61S91126334	2.04	1.65
P320	50	MH61S91126332	2.04	1.65

Silicon Carbide				
Grit	Sheets Per Package	Order No.	Regular Price	SALE
180	50	MH61S91101150	1.86	1.52
220	50	MH61S91139367	1.51	1.27
240	50	MH61S91139366	1.51	1.27
320	50	MH61S91139364	1.51	1.27
400	50	MH61S91139362	1.51	1.27
500	50	MH61S91139361	1.51	1.27
600	50	MH61S91139360	1.51	1.27

24112

SURF PRO Cup Wire Brushes

- Easily reaches into narrow or recessed areas for quick material removal
- For scale removal, deburring, weld cleaning and flat surfaces
- For general use including cleaning and rust removal

Diam.	Arbor Hole	Bristle Diam.	Style	Max. RPM	Material	Order No.	Regular Price	SALE
2 3/4"	5/8"-11	0.014"	Knot Wire	12,500	Carbon Steel	SP25CB2345114CK	17.15	10.67
2 3/4"	5/8"-11	0.014"	Knot Wire	12,500	Carbon Steel	SP25CB2345120CK	17.53	10.92
4"	5/8"-11	0.020"	Knot Wire	8,500	Carbon Steel	SP25CB4005120CK	28.89	17.91

686

Easy MIG Welder

- Heavy Duty Wire Drive - Fully adjustable drive system reduces the chance of wire tangling and crushing
- Brass-to-brass gun connection enhances conductivity
- Durable cast aluminum gear box delivers added drive torque and quiet operation
- Capable Performance - Forgiving arc makes dialing in your application easy
- Smooth arc starts with minimal spatter

new product

Duty Cycle	Phase	AMP Rating	Input Current	Output Current	Order No.	Regular Price	SALE
30	Single	30-180 Amp	20A	180 Amp	**LE01K26981**	1357.19	**1157.67**

28746

355-2 Compensated Shielding Gas Kit

- Designed to control argon and/or argon CO^2 mix shielding gases
- Supplied with a 3/16″ x 10′ approved inert gas hose

Fuel Type	Flow Capacity	Max Inlet PSIG	Outlet Connection	ManufacturerNo	Order No.	Regular Price	SALE
Ar + Mixes	60	3,000	5/8-18 RH (F)	4400235	**HR7010110**	283.56	**188.13**

2662

6011 Mild Steel Electrodes

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

Diameter	Length	Container Type	ManufacturerNo	Order No.	Regular Price	SALE
3/32″	12″	5 Lb Package	6011505	**HR7120100**	4.69	**3.78**
3/32″	12″	10 Lb Package	60115010	**HR7120130**	4.42	**3.57**
1/8″	14″	5 Lb Package	6011605	**HR7120110**	4.42	**3.57**
1/8″	14″	10 Lb Package	60116010	**HR7120140**	4.14	**3.34**
5/32″	12″	5 Lb Package	6011705	**HR7120120**	4.42	**3.57**
5/32″	14″	10 Lb Package	60117010	**HR7120150**	4.14	**3.34**

2652

6013 Mild Steel Electrodes

- General purpose electrode for mild steel whcih 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**	4.01	**3.23**
3/32″	10 Lb Package	60135010	**HR7120180**	4.01	**3.23**
1/8″	10 Lb Package	60136010	**HR7120190**	3.73	**3.00**

2653

Harris and Lincoln pricing subject change

Inverterarc 120 Stick Welder

- 120v input power, 120/1/60
- 10-90 amp DC welding output range
- 20% duty cycle at 70 amps
- Weighs 10 lbs.
- Dimensions of unit 14 x 10 x17 inches
- Welds 18 gauge to 1/4″ single pass

new product

Type	Amperage Rating	Input Current	Duty Cycle	Order No.	Regular Price	SALE
Stick Welder	90 Amps	15	20	**LE01K27892**	519.91	**443.47**

29129

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**	264.23	**187.82**

2902

PRM PRO 17 Series Tig Torch Packages

- 150 Amp Air-cooled

Length	Includes	Order No.	Regular Price	SALE
12.5′	Power Cable, Torch, Handle, Back Cap	**WE1017FV12R**	141.99	**100.93**
25′	Power Cable, Torch, Handle, Back Cap	**WE1017FV25R**	169.22	**120.28**
25′	Power Cable, Torch, Handle, Back Cap	**WE1017V25R**	160.65	**114.20**

2901

Honeywell Welding Helmets

HW100:

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

HW200:

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

View Width	View Height	Lens Shade	Window Style	Color	Order No.	Regular Price	SALE
3.8″	1.7″	10	Fixed Front	Black	**LF50HW100**	210.26	**149.45**
3.8″	1.9″	9-13	Fixed Front	Black	**LF50HW200**	292.99	**208.27**

2701

LINCOLN ELECTRIC 80 lbs. Metal Capacity Welder Cart

- Includes a sturdy handle and a convenient cable wrap hanger
- Metal construction
- Wheels roll easily
- Fits many lincoln electric welders

new product

Application	Order No.	Regular Price	SALE
For moving MIG Welders and Cylinder by hand.	LE01K22753	162.66	123.33

29081

LINCOLN ELECTRIC 20 Plasma Cutter

- The Lincoln Electric 20 is recommended for cutting sheet metal to 1/8 in. material with a maximum capacity of 1/4 in.
- Inverter design makes the 21 lbs. unit very portable and ideal for HVAC and autobody work.
- Operates on 115V, 20 amp for max. output, 115V, 15 amp for 10-15-amp output.
- For cutting expanded metal, stainless steel and aluminum.
- No high-frequency output.
- Input Power: 115/1/60
- Processes: Plasma Cutting

new product

Amperage Rating	Order No.	Regular Price	SALE
20 Amps	LE01K28201	1672.96	1427.01

28809

LINCOLN ELECTRIC Leather Welding Gloves

- Selected shoulder split leather
- Turned cuff for safety
- Lock-stich construction
- Fully welted seams
- Winged thumb for greater flexibility

new product

Size	Color	Material	Order No.	Regular Price	SALE
One Size	Brown	Leather	LE01KH642	19.20	16.38

29093

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

new product

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	158.13	134.89

28749

LINCOLN ELECTRIC 6" Fire Resistant Black Welding Doo Rag

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

new product

Color	Material	Order No.	Regular Price	SALE
Black	Cotton	LE01KH822	11.52	9.83

29102

LINCOLN ELECTRIC Heavy Duty Leather Welding Jacket

- Jacket length varies by size from 31" to 33"
- An economical choice that offers both comfort and durablity
- Made from golden brown leather
- Triple needle stitching on seams
- Inside pocket to stow personal items

new product

Size	Color	Material	Order No.	Regular Price	SALE
Large	Brown	Leather	LE01KH807L	119.72	102.12
X-Large	Brown	Leather	LE01KH807XL	119.72	102.12
2X-Large	Brown	Leather	LE01KH807XXL	133.84	114.16

29098

LINCOLN ELECTRIC Leather Welding Waist Apron

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

new product

Size	Type	Color	Order No.	Regular Price	SALE
24" x 45"	Welding Apron	Brown	LE01KH804	53.08	45.28

29097

Harris and Lincoln pricing subject change

0.3HP Right Angle Die Grinder

Lockoff Lever. Rear Exhaust. Built-in Speed Control.

SAVE OVER $65

new product

Collet/ Chuck	Horsepower	Maximum RPM	Exhaust Type	Air Inlet Size	Average Air Consumption	Overall Length	ManufacturerNo	Order No.	Regular Price	SALE
1/4"	0.3 hp	12,000	Rear	1/4" NPT	11 CFM	5-5/8"	SAG03S12	**ST3713070**	598.18	**481.89**

30610

0.25HP 5 Pad Orbital Sander

Built-in Speed Control. Ergonomic 24-Position Indexable Grip. 3/32" (3 mm), 3/16" (5 mm) & 3/8" (10 mm) Orbit Diameters.

SAVE OVER $45

new product

Type	Spindle Thread	Disc Diameter	Air Inlet Size	Average Air Consumption	Maximum RPM	ManufacturerNo	Order No.	Regular Price	SALE
Air	5/16"-24	5"	1/4" NPT	13 CFM	12,000	RO2512-50SNP	**ST3712790**	407.57	**328.35**

30608

1HP 1/2 Pistol Grip Drill

Trigger Start. Rotatable Exhaust. Rubber Grip.

SAVE OVER $60

new product

Type	Average Air Consumption(New)	Drill Capacity	Chuck Style	Maximum RPM	Exhaust Type	Air Inlet Size	Chuck Size	ManufacturerNo	Order No.	Regular Price	SALE
Non-Reversing Drill	30 CFM	1/2"	Keyed	2,600	Handle	1/4" NPT	1/2"	SDR10P26N4	**ST3717380**	557.88	**449.43**

30609

Straight Die Grinders

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

new product

Model No	Max. RPM	Overall Length	Average Air Consumption	Collet/ Chuck	Exhaust Type	Order No.	Regular Price	SALE
SDG10S18R	18,000	7-1/2"	30 CFM	1/4"	Rear	**ST3716610**	460.85	**371.26**
SDG10S25F	25,000	7-1/2"	30 CFM	1/4"	Front	**ST3716620**	460.85	**371.26**
SDG7S25F	25,000	6"	25 CFM	1/4"	Front	**ST3716730**	468.58	**377.49**

24948

Air Supreme® Right Angle Grinder Surface Prep Kit

Kit Includes:

- 20,000 RPM right angle die grinder
- 2" & 3" Conditioning discs
- 2" & 3" Roll on holders
- 1/8" Collet & 1/4" collet
- 10 Pc. stone assortment

Order No.	Regular Price	SALE
PJ752010	156.81	**100.33**

22685

DREMEL® 6 Pc. EZ Lock Starter Kit

- Kit includes 5 pieces 1-1/2" diameter wheels plus EZ lock mandrel
- 1 Pc. mandrel design eliminates the need for screw and screwdriver
- Effortless locking and loading - no tiny mandrel screw to lose
- Compatible with all Dremel rotary tools

Order No.	Regular Price	SALE
PH50EZ406	28.35	**20.15**

2124

DREMEL® Full Line Of MultiPro Accessories Tungsten Carbide Cutters

1/8" Shank

Item	Size	Order No.	Regular Price	SALE
	1/8"	**PH509901**	15.70	**11.16**
	3/32"	**PH509902**	15.73	**11.19**
	1/8"	**PH509903**	15.70	**11.16**
	3/32"	**PH509904**	15.73	**11.19**
	1/8"	**PH509905**	15.70	**11.16**
	1/8"	**PH509906**	15.73	**11.19**
	1/8"	**PH509909**	15.73	**11.19**
	1/8"	**PH509910**	15.73	**11.19**

2127

Air Supreme® Air Die Grinders

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

Features and Benefits	Type	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Lever throttle for positive speed control, complete with collet wrenches	Right Angle	20,000	4 CFM	1/4" NPT	**PJ60SM522**	79.70	**53.34**
All ball bearing construction, lever throttle for positive speed control, complete with collet wrenches	Straight	22,000	4 CFM	1/4" NPT	**PJ60DG1**	46.81	**31.69**
Extended heavy duty spindle, lever type throttle	Straight	22,000	16 CFM	1/4" NPT	**PJ60RG38A**	131.05	**87.00**

22669

Chicago Pneumatic Air Powered Die Grinders

- Mini angle grinder compact
- Lightweight design
- 90° angle head allows flexibility in confined areas

Type	Maximum RPM	Average Air Consumption	Air Inlet Size	Collet/Chuck	Exhaust Type	Order No.	Regular Price	SALE
Right Angle	22,500	11 CFM	1/4" NPT	1/4"|6 mm	Front	**PF50CP875**	138.73	**111.76**

22943

Chicago Pneumatic Air Powered Sanders

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

PF50CP3511

PF50CP870

Sander Type	Features	Disc Diameter	Maximum RPM	Air Inlet Size	Order No.	Regular Price	SALE
Palm	Redi power grip for better handling, speed regulator, PSA mount, swivel rear exhaust, low vibration and noise, 5mm orbit no vacuum	5"	12,000	1/4" NPT	**PF50CP3511**	368.70	**297.03**
Angle, with handle	Balanced counterweight design for low vibration sanding, full 1/2 HP motor, heavy duty ball bearing construction, built-in speed regulator	6"	9,600	1/4" NPT	**PF50CP870**	142.67	**114.94**

22948

STEINEL UltraHEAT SV750 High Output Blower

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

Order No.	Regular Price	SALE
PD5534075	146.44	**111.02**

25085

Starrett® 14 Pc. General Purpose Fastcut™ Hole Saw Kit

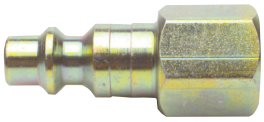
Bi-Metal Includes:

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

Order No.	Regular Price	SALE
FZ7001218	277.08	**180.42**

2333

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	8.59	6.11
3/8"	LX50151	11.20	7.96

MNPT, Interchange Coupler			
Thread Size	Order No.	Regular Price	SALE
1/4"	LX50152	8.88	6.31
3/8"	LX50155	11.51	8.18

23000

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	Max. 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	120.41	85.60
Mini angle grinder, compact design, heavy-duty ball bearing construction and bevel gears	Rear	25,000	4 CFM	PF52FP759R	257.27	182.87

23209

Air Powered Needle Scaler & Needle Set

- Great for reaching into confined spaces
- Needles adapt themselves to any work surface, including uneven work surfaces
- Built-in regulator provides fingertip control
- Blows per minute: 3,700
- Average air consumption: 4CFM
- Air inlet size: 1/4 NPT

Number of Needles	Order No.	Regular Price	SALE
19	PF52109020	37.27	26.49
-	PF52FP1050	272.06	193.38

23210

Portable Magnetic Drill

Whether you are making holes onsite, in fabrication or factory applications, Hougen Rotabroach Annular Cutters, Portable Magnetic Drills can help you be more productive and profitable by getting the job done faster and with greater accuracy.

Maximum RPM	Voltage	Amperage	Order No.	Regular Price	SALE
450	120 V	8A	FZ80HMD904	1414.71	1206.73

23318

Long Series Air Guns

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

	Long John®			Whisper Jet®			Blo-Hard Air Blow Gun		
Extension Size	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
6"	LW5575LJ6	45.04	33.91	LW5580LJ6	48.45	36.47	LW55900LJ6	39.31	29.60
12"	LW5575LJ12	47.22	35.55	LW5580LJ12	50.63	38.11	LW55900LJ12	41.06	30.91
18"	LW5575LJ18	49.41	37.20	LW5580LJ18	52.82	39.76	LW55900LJ18	42.80	32.22
24"	LW5575LJ24	51.60	38.85	LW5580LJ24	55.00	41.41	LW55900LJ24	44.55	33.54
36"	LW5575LJ36	55.96	42.14	LW5580LJ36	59.37	44.70	LW55900LJ36	48.06	36.18
48"	LW5575LJ48	60.35	45.44	LW5580LJ48	63.75	47.99	LW55900LJ48	51.55	38.81
60"	LW5575LJ60	64.71	48.72	LW5580LJ60	68.12	51.28	LW55900LJ60	55.04	41.44
72"	LW5575LJ72	69.08	52.01	LW5580LJ72	72.49	54.58	LW55900LJ72	58.53	44.07

2218

Safety and Blind Hole Air Guns

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

Model No	Tip Type	Features	Order No.	Regular Price	SALE
74BH006Z	Blind Hole	Delivers a high velocity jet of air into deep crevices & blind holes (down to 1/8" dia.) to flush out chips and dirt	LW5574BH	45.27	34.07
74SK	Jet Guard	Safety air shield protects workers from hazardous chip fly-back	LW5574SK	41.72	31.42
80WJ	Conical	Unique nozzle design reduces noise levels 6-20 dB less than conventional air guns	LW5580WJ	41.14	30.98

23269

Dynastraight® Finishing Tool

Model 13501
- Any Dynacushion® pneumatic wheel with 5/8" bore may be mounted
- Works on stainless steel, aluminum, carbon steel, plastic, fiberglass, composites, wood and more
- Ergonomically designed, featuring high-torque air motor with rear exhaust and safety-lock throttle

Specifications:
- Weight 4.3 lbs, 82 dB(A)
- 1 HP @ 1,800 RPM
- Hose size 3/8"
- 13071 Combo Arbor for up to 3" wide wheels which have either 5/8" or 1" dia. center hole

Order No.	Regular Price	SALE
PF3013501	1218.72	1039.55

2176

Legacy FLEXZILLA Air Hoses

- Extreme flexibility
- Temperature range: (-40° F to 150° F)
- 300 PSI working pressure
- Reinforced bend restricter
- 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**	41.61	**29.58**
1/4″	50 feet	MNPT	**LX55HFZ1450YW2**	64.08	**48.59**
1/4″	100 feet	MNPT	**LX55HFZ14100YW2**	114.25	**81.22**
3/8″	25 feet	MNPT	**LX55HFZ3825YW2**	58.38	**41.50**
3/8″	50 feet	MNPT	**LX55HFZ3850YW2**	93.51	**66.47**
3/8″	100 feet	MNPT	**LX55HFZ38100YW2**	167.94	**119.38**

2243

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	212.71	**151.21**

2109

Milwaukee 1/2″ Chuck Variable Speed Reversing Drills - Corded

- Variable speed control
- Heavy-duty keyed chuck
- All metal gear case and diaphragm
- 3-Wire rubber cord
- 360° locking side handle

Amperage	Max. RPM	Drill Capacity	Features and Benefits	Order No.	Regular Price	SALE
8.0 A	850	1/2″	Ergonomic textured grip and two finger trigger for user comfort and balance	**PD50029920**	269.26	**188.37**
8.0 A	850	1/2″	Ergonomic tactile grip and two finger trigger for user comfort and balance	**PD50030020**	271.02	**205.49**

23925

DEWALT Circular Saw Blades

Tool Diameter	Cutting Edge Material	Number of Teeth	Order No.	Regular Price	SALE
10″	Carbide	32	**PD20DW3103**	50.42	**43.01**
10″	Carbide	40	**PD20DW3114**	57.04	**48.65**
10″	Carbide	40	**PD20DW7657**	76.77	**65.48**
7-1/4″	Carbide	18	**PD20DW3192**	16.80	**14.34**

29578

BAHCO Portable Bandsaw Blades

Bi-Metal M-42 Wavy Tooth

- M42 material ensures longer life on all materials
- 44-7/8 Length
- Wavy tooth design provides smoother cutting and better harmonics
- 5-Pack sleeve provides better efficiencies, saves time, improves productivity (priced each sold in multiples of 5)

Width (W)	Thickness (H)	Teeth per Inch (TPI)	Order No.	Regular Price	SALE
1/2″	0.02″	10 W	**FX848230319**	14.28	**9.88**
1/2″	0.02″	14 W	**FX848230326**	14.90	**9.88**
1/2″	0.02″	18 W	**FX848230333**	14.28	**9.88**
1/2″	0.02″	24 W	**FX848230340**	14.50	**9.61**
1/2″	0.02″	10/14 VT	**FX848230357**	14.28	**9.47**
1/2″	0.02″	14/18 VT	**FX848230364**	14.90	**9.88**

2327

Starrett Univerz® Portable Bands

With Starrett Bi-Metal Unique Technology

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

Length	Width (W)	Thickness (H)	Teeth per Inch (TPI)	Order No.	Regular Price	SALE
44-7/8″	1/2″	0.02″	10	**FX83BM10**	18.68	**11.58**
44-7/8″	1/2″	0.02″	14	**FX83BM14**	18.68	**11.58**
44-7/8″	1/2″	0.02″	18	**FX83BM18**	18.68	**11.58**
44-7/8″	1/2″	0.02″	24	**FX83BM24**	18.68	**11.58**
44-7/8″	1/2″	0.02″	10/14 VT	**FX83BM1014**	18.68	**11.58**
44-7/8″	1/2″	0.02″	14/18 VT	**FX83BM1418**	18.68	**11.58**

25065

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

Legacy Auto Rewind, Auto Leveling Hose Reels

- Featuring a unique winding system that automatically layers the hose back & forth across the reel
- Auto-rewind
- 3/4″ Hose swivel
- Free standing base
- Latching & free-run mode
- Adjustable hose stopper

Hose Outside Diameter	Hose Length	Type	Order No.	Regular Price	SALE
3/8″	50 feet	Retractable Air Hose Reel	**LX55L8305**	455.12	**323.51**
3/8″	75 feet	Retractable Air Hose Reel	**LX55L8306**	492.32	**349.95**
3/8″	100 feet	Retractable Air Hose Reel	**LX55L8310**	523.99	**372.47**
5/8″	50 feet	Retractable Garden Hose Reel	**LX55L8346**	513.54	**365.04**
3/4″	50 feet	Retractable Twin Hose Reel	**LX55L8363**	580.47	**412.61**

23684

STANLEY 50 Gallon Mobile Tool Chest

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

Height	Width	Model No	Order No.	Regular Price	SALE
23"	23"	037025H	**KP438026**	235.33	**189.59**

29408

PROTO General Purpose Tool Box with 3 Drawers

- Cubic capacity: 2.075
- Weight: 25 lbs

MADE IN USA

Length	Width	Height	Depth	Model No	Order No.	Regular Price	SALE
18"	20 3/16"	11/34"	8 3/4"	J9993	**KP4292125**	173.82	**123.56**

5494

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	147.52	**125.83**

22349

DEWALT 20V Lithium Ion Compact Drill Driver Kits

- Features a two-speed transmission and LED lights
- Compact, lightweight design fits into tight areas
- Ergonomic handle delivers comfort and control
- Model DCK280C2 Includes: DCD780 1/2" Drill Driver; (2) 20V Max Lithium Ion Battery Packs; Charger: (2) Belt hook; Contractor Bag
- Haz Code HAZ05

Model No	Voltage	Chuck Size	Maximum RPM	Number of Speed	Order No.	Regular Price	SALE
DCK280C2	20 V	1/2"	0-600 / 0-2,000	2	**PD20DCK280C2**	424.87	**362.41**

2090

PROTO Ratcheting Head Micrometer Torque Wrenches - Ft. - Lbs.

MADE IN USA

- Calibrated to +/- 4% in clockwise direction and +/- 6% in counter clockwise direction
- Calibration is accomplished by mechanical loading of each wrench in a horizontal position, and performing a three click test at 20%, 60% and 100% of maximum instrument capacity
- Certification documents traceable to NIST. (National Institute of Standards and Technology). **CERT models only**

Imperial							
Drive Size	Torque Range Ft-Lbs	Increments	Overall Length	Cert Traceable	Order No.	Regular Price	SALE
1/4"	10-50 inch/lbs	1 inch/lbs	9 1/2"	No	**KP4220820**	298.49	**212.17**
1/4"	40-200 inch/lbs	1 inch/lbs	11 21/64"	Yes	**KP4220765**	400.82	**284.91**
1/4"	40-200 inch/lbs	1 inch/lbs	11 21/64"	No	**KP4220890**	302.12	**214.76**
3/8"	16-80 feet/lbs	0.5 feet/lbs	15 1/32"	Yes	**KP4220785**	422.85	**300.57**
3/8"	16-80 feet/lbs	0.5 feet/lbs	15 1/32"	No	**KP4220845**	323.50	**229.96**
3/8"	20-100 feet/lbs	0.5 feet/lbs	16 17/32"	No	**KP4220865**	323.50	**229.96**
3/8"	40-200 inch/lbs	1 inch/lbs	11 21/64"	No	**KP4220895**	308.91	**219.58**
3/8"	40-200 inch/lbs	1 inch/lbs	11 21/64"	Yes	**KP4220770**	407.87	**289.93**
3/8"	200-1000 inch/lbs	5 inch/lbs	14 15/16"	Yes	**KP4220775**	436.45	**310.24**
3/8"	200-1000 inch/lbs	5 inch/lbs	14 15/16"	No	**KP4220900**	330.56	**234.98**
1/2"	16-80 feet/lbs	0.5 feet/lbs	15 1/32"	Yes	**KP4220790**	444.88	**316.23**
1/2"	16-80 feet/lbs	0.5 feet/lbs	15 1/32"	No	**KP4220860**	340.29	**241.88**
1/2"	30-150 feet/lbs	1 feet/lbs	20 43/64"	No	**KP4220915**	357.82	**254.34**
1/2"	30-150 feet/lbs	1 feet/lbs	20 43/64"	Yes	**KP4220795**	467.71	**332.46**
1/2"	50-250 feet/lbs	1 feet/lbs	26 17/64"	Yes	**KP4220800**	522.12	**371.13**
1/2"	50-250 feet/lbs	1 feet/lbs	26 17/64"	No	**KP4220840**	399.41	**283.91**
1/2"	360-1800 inch/lbs	10 inch/lbs	20 43/64"	No	**KP4220905**	360.45	**256.21**
3/4"	60-300 feet/lbs	2 feet/lbs	32 3/4"	No	**KP4220830**	1070.81	**761.15**
3/4"	120-600 feet/lbs	2 feet/lbs	41 17/32"	No	**KP4220835**	1535.00	**1091.11**
3/4"	120-600 feet/lbs	2 feet/lbs	41 17/32"	Yes	**KP4220810**	2006.52	**1426.27**
1"	140-700 feet/lbs	2 feet/lbs	46 57/64"	No	**KP4220825**	1768.53	**1257.11**

7333

DEWALT Heavy Duty Cordless Drill Driver Kit

- RPM 0-600 / 0-2000
- 1/2" Chuck
- Maximum Torque 350 in/lbs
- 2 Speed Setting
- 20 Volt
- Keyless chuck
- All metal planetary gears
- Variable RPM in all speeds
- Includes batteries, side handles, driver bit and case
- Metal ratcheting chuck with carbide jaws

Order No.	Regular Price	SALE
PD20DCD780C2	416.04	**335.17**

23071

PROTO Locking Pliers

Nickel Chrome
- High tensile strength microalloy steel
- Great for holding, placing and extracting pieces in awkward areas, engines, etc

MADE IN USA

Overall Length	Jaw Width	Jaw Length	Jaw Type	Model No	Order No.	Regular Price	SALE
9"	19/32"	1 11/16"	Straight	J293NC	**KP4230620**	40.67	**28.91**
9 1/2"	1/2"	1 1/2"	Curved	J292NC	**KP4230635**	36.22	**25.74**
7 1/2"	17/32"	1 11/32"	Straight	J291NC	**KP4230640**	34.14	**24.27**

7296

PROTO Ball End Hex Key Sets

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

MADE IN USA

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**	23.88	**16.98**
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**	31.54	**22.43**

7275

PROTO 7 Pc XL Hex Bit Set 3/8" Drive

- Set includes socket bar and socket clips
- Extra long bits for additional reach

MADE IN USA

Model No	Order No.	Regular Price	SALE
J4990-7XL	**KP4280655**	126.00	**89.56**

7134

PROTO 26 Pc. Punch & Chisel Set

- 17 Punches 3/32 - 1/4"
- 9 Chisels 1/4 - 7/8"
- Round shank

MADE IN USA

ManufacturerNo	Order No.	Regular Price	SALE
J46	**KP4281770**	373.39	**265.42**

7088

PROTO Pear Head Ratchets

- Robust 24 tooth design with 15° arc swing
- Tool steel drive gear for strength and durability
- Low profile head for access in constricted areas
- Reversing lever design for quick, one handed operation
- Knurled slip-resistant grip

MADE IN USA

		Full Polish Chrome			Black Oxide		
Drive Size	Overall Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	5"	**KP4240105**	44.10	**31.34**	**KP4240140**	41.90	**29.78**
3/8"	7"	**KP4240110**	60.86	**43.27**	**KP4240145**	57.87	**41.14**
3/8"	11"	**KP4240115**	73.04	**51.92**	**KP4240120**	69.41	**49.34**
1/2"	10"	**KP4240125**	93.95	**66.78**	**KP4240150**	89.24	**63.44**
1/2"	16"	**KP4240130**	101.46	**72.12**	**KP4240155**	96.39	**68.52**
3/4"	20"	-	-	-	**KP4240160**	191.26	**135.95**

7207

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, 14mm; 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" Extensioni 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**	226.93	**182.82**

7687

DEWALT Hammer Drills

- 7.8 Amp motor provides high performance and overload protection
- High/low gear for high speed drilling or high toque applications
- Dual mode: hammerdrill/drill for wood, steel or masonry applications
- Lightweight design for easy use and handling in a variety of orientations
- Two-finger trigger for increased comfort
- 360° side handle with depth rod offers greater control, versatility, and increased depth accuracy
- Variable speed allows for precise hole placement on work surface
- DW505K is a kit comes with safe storage case.

Model No	Volt-age	Chuck Size	Number of Speed	Maximum RPM	Order No.	Regular Price	SALE
DW505	120 V	1/2"	2	0-19,000/0-46,000	**PD20DW505**	266.51	**214.71**
DW505K	120 V	1/2"	2	0-19,000/0-46,000	**PD20DW505K**	267.62	**215.60**

2098

DEWALT 4-1/2" Angle Grinder/Cutoff

- 2 Position handle, paddle switch with lock on button
- Dust Ejection System™
- One-Touch™ guard
- High efficiency motor
- Low-profile, jamp-pot gear case
- Ergonomic body design
- Quick-Change™ wheel release

Spindle Size	Disc Diam.	Max. RPM	Features	Order No.	Regular Price	SALE
5/8"-11	4 1/2"	11,000	Dust ejection system, paddle switch with lock on button, auto-off brushes, 2 position side handle, one-touch guard	**PD20DWE402**	147.52	**125.83**
5/8"-11	4 1/2"	12,000	One-Touch™ Guard, Low profile, jam-pot gear case, 2-position removable side handle, Quick-Change™ wheel release, Wrench	**PD20DWE4120N**	146.64	**125.08**

23066

CHANNELLOCK Tongue & Groove Pliers

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

MADE IN USA

Overall Length	Round Capacity	Order No.	Regular Price	SALE
4 1/2"	1/2"	LB50424	25.38	20.23
6 1/2"	7/8"	LB50426	21.92	16.51
9 1/2"	1 1/2"	LB50420	26.45	19.91
10"	2"	LB50430	27.53	20.73
12"	2 1/4"	LB50440	31.23	23.51
16 1/2"	4 1/4"	LB50460	51.95	39.05

22939

GEARWRENCH 13 Pc. SAE Combination Ratcheting Wrench Set

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

Order No.	Regular Price	SALE
KP659312	412.23	273.85

6632

WILLIAMS Heavy Duty Pliers

Slip Joint Pliers with Wire Cutter:

- Heat treated steel
- Chrome plated

Overall Length	Order No.	Regular Price	SALE
6"	KP3023101	12.19	7.56
8"	KP3023102	15.33	9.50

24995

OLFA Safety Carton Cutter

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

Order No.	Regular Price	SALE
FS6040062	24.27	12.43

24223

wiha 8 Pc. Gorilla Grip Fold-Up Torx® Set

Features & Benefits:

- GorillaGrip
- Star sizes T6, T7, T8, T9, T10, T15, T20, and T25
- Blade high alloy chrome-vanadium-molybdenum tool steel
- Rotating cap for precise turning and control with fingertips
- Precision molded on tapered handle made from high quality plastic, cadmium free

Order No.	Regular Price	SALE
KN5312632	24.09	12.80

6509

CRESCENT Wiss Shears & Scissors

LA50175E5

LA50WEZSNIP

LA5020

Easy Snip Utility Shears

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

Heavy Duty Industrial Shears

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

Electrician's Scissors

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

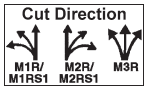
Overall Length	Blade Length	Type	Order No.	Regular Price	SALE
5"	1 3/4"	Electrician's Scissors	LA50175E5	42.38	25.32
8 1/2"	4"	Easy Snip Shears	LA50WEZSNIP	34.58	20.68
10 1/2"	4 3/4"	Heavy Duty Industrial Shears	LA5020	97.32	58.17
12 1/2"	6"	Heavy Duty Industrial Shears	LA5022	108.58	64.90

25564

CRESCENT Wiss Snips

Metalmaster® Compound Action Snips

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



Metalmaster® Special Series Snips

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

Metalmaster Compound Action Snip					
Left/Right Hand	Blade Length	Overall Length	Order No.	Regular Price	SALE
Left	1 3/8"	9 3/4"	LA50M1R	49.50	29.59
Right	1 3/8"	9 3/4"	LA50M2R	49.50	29.59
Left/Right	1 1/2"	9 3/4"	LA50M3R	49.50	29.59

Metalmaster Special Series Snip					
Left/Right Hand	Blade Length	Overall Length	Order No.	Regular Price	SALE
Left	1 3/8"	9 3/4"	LA50M1RS1	79.71	47.64
Right	1 3/8"	9 3/4"	LA50M2RS1	79.67	47.61

25565

CRESCENT H.K. PORTER Strap Cutters

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

Length	Flat Cut	Round Cut	Order No.	Regular Price	SALE
9"	3/4" x .035	Up to 14 Gauge	KR550990T	337.72	209.40
12"	1 1/4" x .050	-	KR551290G	317.99	197.17
24"	2" x .050	-	KR552690GP	728.20	451.51

6697

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

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

Order No.	Regular Price	SALE
KL403495	204.14	126.58

6819

Ironworker's Pliers

KP6011035

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

Overall Length	Jaw Width	Jaw Length	Jaw Thick-ness	Side Cut-ter	Handle Style	Manufactur-erNo	Order No.	Reg-ular Price	SALE
9"	1.156"	1-19/64"	1/2"	Yes	Plain Black Steel	201-7CST	**KP6011010**	87.93	**66.21**
9"	1.156"	1-19/64"	1/2"	Yes	Plastic Blue	D201-7CST	**KP6011035**	88.11	**66.33**
9 1/2"	1.156"	1-19/64"	1-9/32"	Yes	Plastic Red	D201-7CSTA	**KP6011040**	84.74	**63.80**

28925

Lineman's Pliers

KP6011060

- Cuts ACSR, screws, nails and most hardened wire
- High-leverage design. 46-percent greater cutting and gripping power
- Unique handle tempering helps absorb the "snap" when cutting wire
- Precision-hardened plier head
- New England nose type

Overall Length	Jaw Width	Jaw Length	Jaw Thick-ness	Side Cut-ter	Handle Style	ManufacturerNo	Order No.	Reg-ular Price	SALE
9"	1-1/4"	1-19/32"	5/8"	Yes	Hvy Plastic Dip Red	HD2000-9NE	**KP6011055**	97.97	**73.76**
9"	1-1/4"	1-19/32"	5/8"	Yes	PL Dip Glow in Dark	D20009NEGLW	**KP6011025**	97.83	**73.66**
9 1/2"	1-1/4"	1-19/32"	5/8"	Yes	Journey-man Blk/ Blue	J2000-9NE	**KP6011060**	98.44	**74.12**

28921

Lineman's Crimping Pliers

KP6011085

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

Overall Length	Jaw Width	Jaw Length	Side Cutter	Handle Color	ManufacturerNo	Order No.	Regular Price	SALE
9"	1-1/4"	1-19/32"	High Leverage	Yellow	D213-9NE-CR	**KP6011050**	87.16	**65.62**
9 1/2"	1-1/4"	1-19/32"	HD High Leverage	Blue/ Black	J2000-9NECR	**KP6011065**	127.36	**95.90**
9 1/2"	1-1/4"	1-19/32"	High Leverage	Yellow/ Black	J213-9NECR	**KP6011080**	110.43	**83.15**
9 1/2"	1-1/4"	1-19/32"	Std Leverage	Yellow/ Black	J2139NECRN	**KP6011085**	112.21	**84.48**

28923

Electrician's Scissors

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

Overall Length	Blade Length	Left/Right Hand	Manufactur-erNo	Order No.	Regular Price	SALE
5"	1 7/8"	Left/Right Hand	2100-5	**KP6011410**	33.61	**25.30**

28960

9" Heavy Duty Diagonal Cut Pliers

- Extra-long cutting blades provide greater cutting ability
- Beefier, more reinforced head lasts longer than standard diagonal-cutters
- 2000 series heavy-duty cutting knives cut ACSR, screws, nails and most hardened wire;Angled blade design for easier access to cut screws and bolts
- High-leverage design has 46-percent more cutting power
- Induction-hardened cutting knives for long life
- Dual-material Journeyman™ handles provide better grip and added comfort

Overall Length	Jaw Width	Jaw Length	Manufactur-erNo	Order No.	Regular Price	SALE
9"	1.203"	1-1/4"	J2000-59	**KP6011265**	82.67	**62.24**

28956

2 Pc. 4" Insulated Screwdriver Set

- Reduces risk with work up to 1000 volts
- Durable, two-layer, molded insulation
- Orange outer coating is flame and impact resistant
- White high-dielectric inner coating is bonded to the steel
- Cushion-Grip handles for greater torque and comfort
- Meets or exceeds IEC 60900 and ASTM F1505 standards for insulation
- Includes non-magnetic tips

Length	Sizes Included	ManufacturerNo	Order No.	Regular Price	SALE
7"	1/4" Cabinet; #2 Phillips	33532-INS	**KP6011810**	89.14	**67.11**

28978

15 Pc. 15-in-1 HVAC Multi-Bit Screwdriver

- Carry fewer tools with the 15-in-1 multi-bit screwdriver
- Comes with a fixed shaft and internal storage compartment for the screwdriver bits so they stay with the driver
- 14 different bits used in HVAC applications plus a 1/4-Inch nut driver should cover the range of all your bit needs

Number of Pieces	Includes	Overall Length	Single End/ Double End	Drive Type	Manufactur-erNo	Order No.	Regular Price	SALE
15	1/4" Nut Driver; #0, #1, #2, #3 Phillips; 5/32", 1/4" Slotted; #1, #2 Square; #10, #15, #20, #25 TORX, Schrader Valve Insertion, Core Removal	8-1/2"	Double End	Nut Driver, Phillips, Slotted, Square, TORX, Schrader Valve Insertion, Core Removal	32292	**KP6011625**	64.87	**48.83**

28993

KLEIN TOOLS 5-in-1 Ratcheting Wrenches

- Bolt-through design allows bolts to pass through the socket
- 3/4-Inch and 1-Inch x 1-1/8-Inch combination square socket for most common utility hardware
- Bright yellow socket for easy visibility
- Works on most common utility pole hardware, such as lag bolts, "C" clamps and suspension bolts
- Offers two popular wrench sizes: 9/16-Inch and 3/4-Inch

Size	Overall Length	Number of Points	Manufactur-erNo	Order No.	Regular Price	SALE
9/16", 3/4"	9 3/8"	8	KT155T	**KP6013870**	230.86	**173.81**
9/16", 3/4"	12"	8	KT155HD	**KP6013865**	231.44	**174.26**
3/4", 1", 1 1/8"	13"	8	KT151T	**KP6013875**	226.45	**170.50**

28969

BONDHUS Double Sided Ball End L-Wrenches

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

Number of Pieces	Sizes Included	Arm Type	Driver Style	Order No.	Regular Price	SALE
13	0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	Long	Double Ball	**KN5367037**	47.39	**25.18**
9	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	Long	Double Ball	**KN5367099**	38.38	**20.40**

6520

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 25º 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**	34.49	**24.52**

23145

CDI TORQUE Computorq3 Digital Torque Wrenches

- 15º Flex ratcheting head
- Push button socket release head
- Torques in both clockwise and counter-clockwise directions
- Battery saving auto-shutoff after two minutes
- Audible sound when set torque value is reached or exceeded
- Three color LED light bar, yellow: approaching desired torque, green: torque value is reached, red: overtorqued, loosed & retighten
- Operates in any of four torque units, foot pounds, inch pounds, Newton meter or kilogram centimeter
- Accuracy: ±2% CW of readings from 20% to 100% of full scale ±3 CCW of reading from 20% to 100% of full scale
- N.I.S.T. traceable certificate of calibration included

Drive Size	Torque Range Ft-Lbs	Order No.	Regular Price	SALE
1/4"	2-20 feet/lbs	**KL432401CI3**	778.04	**413.49**
1/2"	25-250 feet/lbs	**KL432503CF3**	982.78	**522.30**

22758

WILLIAMS 6 Pc. Phillips® Screwdriver Set

Features:

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

MADE IN USA

Order No.	Regular Price	SALE
KP30100P6PD	108.91	**67.53**

25003

WILLIAMS 13 Pc. Socket Set

- 3/8" Drive
- Sizes range from 1/4" to 1", 6 pt.
- Designed for maximum engagement on 6 point fasteners
- Sockets feature super torque lobular openings for greater turning power without deforming the fastener
- Chrome plated, with a clip rail for storage

Order No.	Regular Price	SALE
KP3031924	93.43	**57.92**

7521

wiha Dead Blow Recoilless Hammers

KN5480225

KN5480025

- All steel rugged body
- Steel with cushion or wood handle
- Replaceable press on tips
- Recoilless rugged design
- Steel shot filled

Face Diameter	Head Length	Overall Length	Handle Material	Order No.	Regular Price	SALE
1"	4 1/4"	12 25/32"	Hickory	**KN5480025**	62.53	**47.08**
1 1/4"	4 1/2"	14"	Hickory	**KN5480030**	62.53	**47.08**
1 7/16"	4 5/8"	14 13/64"	Hickory	**KN5480035**	62.80	**47.28**
1 5/8"	5"	15"	Hickory	**KN5480040**	72.16	**54.33**
1 3/4"	5"	15 13/64"	Hickory	**KN5480045**	83.88	**63.16**
2"	5"	15 25/64"	Hickory	**KN5480050**	95.05	**71.56**
2 3/4"	6 1/4"	17 13/64"	Hickory	**KN5480070**	176.21	**132.68**
1"	4 1/4"	11.3"	Steel	**KN5480225**	72.16	**54.33**
1 1/4"	4 1/2"	11.4"	Steel	**KN5480230**	72.34	**54.46**
1 7/16"	4 5/8"	11.8"	Steel	**KN5480235**	75.91	**57.15**
1 5/8"	5"	12"	Steel	**KN5480240**	86.04	**64.78**
1 3/4"	5"	12.2"	Steel	**KN5480245**	95.96	**72.25**
2"	5"	14.4"	Steel	**KN5480250**	120.80	**90.94**
2 1/4"	6"	14.7"	Steel	**KN5480260**	154.76	**116.52**
2 3/4"	6 1/4"	15.1"	Steel	**KN5480270**	202.18	**152.22**

7969

PRM PRO 9 Pc. Maintenance File Set with Ergo Handles

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

Order No.	Regular Price	SALE
PR0450009	199.03	**113.18**

28818

PRM PRO Flat Hand Files - Professional Grade

- Excellent for a "Hogging" or rapid stock removal
- Flat files are double cut on both sides
- Single cut on the edges and taper towards the top
- Three cuts: Bastard for coarse filing, 2nd cut for moderate stock removal and Smooth for finishing
- 100% warranty against manufactures defect

	2nd Cut			Bastard			Smooth		
Overall Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	-	-	-	PR0410404	6.62	3.76	PR0410504	10.14	5.77
6"	PR0410306	7.93	4.51	PR0410406	7.60	4.32	PR0410506	9.18	5.22
8"	PR0410308	9.94	5.65	PR0410408	9.53	5.42	PR0410508	11.94	6.79
10"	PR0410310	13.32	7.57	PR0410410	12.62	7.18	PR0410510	15.88	9.03
12"	PR0410312	21.25	12.09	PR0410412	16.43	9.35	PR0410512	20.70	11.77
14"	PR0410314	22.91	13.03	PR0410414	26.71	15.19	PR0410514	32.09	18.25
16"	-	-	-	PR0410416	40.03	22.76	-	-	-

28645

CRESCENT NICHOLSON Mill & Flat Hand Files - Bastard Cut

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

Flat Files:

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

Mill Files:

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

	Flat			Mill		
Overall Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	FR5003367	17.68	10.96	FR5008243	12.93	8.01
6"	FR5003467	18.83	11.67	FR5008354	12.76	7.91
8"	FR5003566	23.44	14.54	FR5008497	15.36	9.53
10"	FR5003665	28.49	17.67	FR5008642	19.97	12.38
12"	FR5003764	39.66	24.59	FR5008737	32.55	20.18
14"	FR5003863	55.42	34.37	FR5008832	43.20	26.78

24057

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	48.03	34.14
21 oz	1 3/4"	11"	KY4050021	51.05	36.30
26 oz	2"	13"	KY4050026	56.19	39.94
45 oz	2 1/4"	14 1/2"	KY4050045	73.02	51.90
53 oz	2 3/4"	15"	KY4050053	102.11	72.58
5.5 lbs	2 3/4"	20"	KY4050088	139.65	99.28
9 lbs	2 3/4"	30"	KY4050144	194.07	137.95
10.5 lbs	3 1/4"	30"	KY4050168	265.87	188.99
12 lbs	3 1/4"	36"	KY4050192	301.78	214.52

6944

PRM PRO Mill Hand Files- Professional Grade

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

	2nd Cut			Bastard			Smooth		
Overall Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4"	-	-	-	PR0410104	5.87	3.34	PR0410204	7.04	4.00
6"	PR0410006	7.45	4.24	PR0410106	6.00	3.42	PR0410206	7.52	4.28
8"	PR0410008	9.31	5.30	PR0410108	7.52	4.28	PR0410208	9.46	5.38
10"	PR0410010	11.32	6.44	PR0410110	10.43	5.93	PR0410210	12.70	7.23
12"	PR0410012	15.32	8.71	PR0410112	14.83	8.43	PR0410212	17.66	10.05
14"	-	-	-	PR0410114	22.91	13.03	PR0410214	28.37	16.13

28638

Garland Manufacturing Company Split Head Hammers

Rawhide

- Will strike heavy, controlled blows without harm to materials or finishes
- The split head construction makes it especially easy to change faces. Just loosen nut under head.

Head Diameter	Head Weight	Order No.	Regular Price	SALE
1 1/4"	1.5 lbs	KY50R1	82.56	51.19
1 1/2"	2 lbs	KY50R2	88.16	54.66
1 3/4"	2.75 lbs	KY50R3	106.03	65.75
2"	4 lbs	KY50R4	121.24	75.17
2 3/4"	6.5 lbs	KY50R5	183.27	113.63

6630

CDI Torque Products Advanced Electronic Torque Wrench

MADE IN USA

- Durable all steel construction
- Programmable to torque fastener in desired sequence with up to 50 memory presets
- Electronic indicators include LED, audible beep and handle vibration when desired torque is achieved
- Calibration due indicator
- Reliable data trail time stamped for QC, Job Auditing and Torque Verification
- Stores up to 1,500 readings
- Qutput in Foot Pounds, Inch Pounds, Newton Meters and Kilogram Centimeters
- Accuracy +/- 2% CW and +/- 3% CCW

Drive Size	Torque Range Ft-Lbs	Torque Range In-Lb	Torque Nm	Order No.	Regular Price	SALE
1/4"	1-20 feet/lbs	12-240	1.4-27.2	KL452401CASG	1468.33	780.35
3/8"	5-100 feet/lbs	60-1200	6.84-135.6	KL451002CASG	1760.82	935.80
1/2"	12.5-250 feet/lbs	150-3000	16.9-339	KL452503CASG	1983.12	1053.93
3/4"	30-600 feet/lbs	360-7200	40.7-813.5	KL456004CASG	4089.08	2173.16

7658

EXXO 4 Pc. Demolition Set

- 4 Pc. set consists of 12" and 18" plastic handle pry bars, 15" utility flat bar and 24" wrecking bar.
- Versatile set for industrial, automotive, workshop and construction.

Order No.	Regular Price	SALE
HY50P6064	36.97	21.89

6619

Fowler Euro-Cal IV 6" Electronic Calipers

- Range: 6"/150mm
- Reads in inch, metric & fractions
- Resolution: .0005"/0.01mm (fractions in 1/64th increments)
- Direct inch/metric/fraction conversion
- Absolute incremental measurement
- Water resistant to IP54 standards
- Stainless steel frame
- 4-Way measuring
- RS232 output
- Includes molded plastic case

Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	**NA55541003301**	202.84	**144.27**
0-12" / 0-300 mm	**NA5554100312**	347.48	**302.64**

3533

INSIZE Digital Calipers

- Absolute and incremental measurement
- Take CR2032 battery
- Automatic power off
- Data output
- Stainless steel
- Fraction reading
- Supplied with certification

Measuring Range	Resolution	Model No	Order No.	Regular Price	SALE
0-6" / 0-150 mm	0.0005" / 0.01 mm	1102-150	**SZ201102150**	139.40	**115.70**
0-12" / 0-300 mm	0.0005" / 0.01 mm	1102-300	**SZ201102300**	245.68	**203.96**

3945

Fowler Poly-Cal™ Electronic Caliper

Inch/Metric/Fraction

- Range 6"/150mm
- Polycarbonate frame
- Large easy-to-read display
- Resolution .0005"/0.01mm, fractions by 1/64 increments
- Absolute / incremental measurement
- 4-Way measuring
- Accuracy +/-.008"
- Supplied with vinyl pouch

Order No.	Regular Price	SALE
NA5554101175	44.64	**31.75**

3692

Mitutoyo Digimatic Calipers

Non-SPC Output with Absolute Encoder

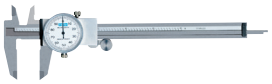
- Zero-setting of the display position (incremental mode)
- Large LCD digits
- .0005" / 0.01mm Resolution
- Scale contamination detection function

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**	231.10	**187.20**
0-8" / 0-200 mm	**MT80500-197-30**	331.58	**268.61**
0-12" / 0-300 mm	**MT80500-193-30**	666.03	**539.37**

4126

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**	131.12	**93.22**
0-6"	**NA5552008707**	131.12	**93.22**
0-8"	**NA5552008708**	152.73	**108.59**
0-12"	**NA5552008712**	202.23	**143.76**

3708

PROCHECK Electronic Calipers

- Inch / metric reading with direct conversion
- Resolution: .0005"/0.01mm
- Hardened stainless steel with precision lapped finish
- 4-Way measuring inside & outside measures
- Supplied with storage case
- Replacement battery: KA56ECR2032

Measuring Range	Inside Jaw Depth	Order No.	Regular Price	SALE
0-6" / 0-150mm	1-9/16"	**PC20EC061505**	87.09	**65.28**
0-6" / 0-150 mm	1-9/16"	**PC20EC06150F**	87.09	**65.28**
0-8" / 0-200 mm	1-15/16"	**PC20EC082005**	138.54	**103.76**
0-12" / 0-300 mm	2-1/2"	**PC20EC123005**	205.10	**153.67**

4574

INSIZE 6" Dial Caliper

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

Model No	Measuring Range	Order No.	Regular Price	SALE
1311-12	0 - 12"	**SZ20131112**	208.41	**172.97**
1311-6	0-6"	**SZ2013116**	89.43	**74.30**
1311-8	0 - 8"	**SZ2013118**	118.70	**98.55**

3939

PROCHECK 0 - 6" Electronic Caliper

IP67 Protection

- Inside & outside measures
- Hardened stainless steel with precision lapped finish
- Replacement battery: KA56ECR2032

Caliper Type	Order No.	Regular Price	SALE
IP67	**PC20EC061505I67**	134.52	**100.84**

4638

PROCHECK Shockproof Dial Calipers

- Tough, shockproof design
- .100″ per revolution
- Covered rack
- Inside, outside, step & depth measurement
- Hardened stainless steel rack
- Supplied with storage case

Measuring Range	Graduation	Inside Jaw Depth	Range Per Revolution	Dial Face Color	Order No.	Regular Price	SALE
0-6″	0.001″	1-9/16″	0.1″	White	**PC21DC06SP**	86.62	**69.85**
0-8″	0.001″	1-15/16″	0.1″	White	**PC21DC08SP**	129.81	**104.52**
0-12″	0.001″	2-1/2″	0.1″	White	**PC21DC12SP**	168.04	**135.38**

4800

PROCHECK Premier 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**	80.92	**65.15**
0-6″	0.001″	**PC21CDC6B**	80.92	**65.15**
0-6″	0.001″	**PC21CDC6CJ**	146.96	**118.36**
0-6″	0.001″	**PC21CDC6EM**	85.88	**69.22**
0-150 mm	0.02 mm	**PC21CDC6M1**	85.88	**69.22**
0-6″/0-150mm	0.001″ / 0.02 mm	**PC21CDC6M2**	113.95	**91.82**
0-8″	0.001″	**PC21CDC8**	81.47	**65.66**
0-12″	0.001″	**PC21CDC12**	117.99	**95.00**

4812

†PC21CDC6EM Metric on scale only

PROCHECK PREMIUM Premier Electronic Calipers

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

Measuring Range	Order No.	Regular Price	SALE
0-6″/150mm	**PC20EDC6**	88.28	**71.12**
0-8″/200mm	**PC20EDC8**	97.71	**83.44**
0-12″/300mm	**PC20EDC12**	162.96	**139.07**

4572

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**	215.43	**204.72**

5027

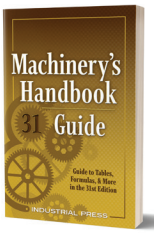
PROCHECK Caliper Anvil Attachment

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

Order No.	Regular Price	SALE
NB75Z9050	34.73	**29.59**

4707

Machinery's Handbook and Machinery's Handbook Guide



31st Edition
Contains useful, practical, and hard-to-find information, and provides a wealth of engineering and shop standards, illustrations, formulas, and readable tables and graphs.
Authors: Oberg, Jones, Horton & Ryffel, 2,896 Pages

Features:

- Provides extensive coverage of mathematics, cutting tools, speeds and feed, screw thread systems, metallurgy, metrology, and other critical topics
- Metric and inch dimensions of: bolts, nuts, and screws; rivets; pins and dowels; tapers; steels and non-ferrous metals; and more
- Cross-references important subjects for greater convenience

Title	Order No.	Regular Price	SALE
Machinery's Handbook, 31st Edition, Guide	**MY5043312**	40.13	**35.31**
Machinery's Handbook 31st Edition, Large Print Edition	**MY5036314**	200.93	**176.66**
Machinery's Handbook 31st Edition, Toolbox Edition	**MY5037311**	160.73	**141.22**

3911

TESA | brown & sharpe Compac Series Test Indicators

- DIN 2270 and factory standard
- Contact points with tungsten carbide ball tips
- Friction lever system to prevent overload
- Inspection report with a declaration of conformity
- Rotating dial
- Supplied in a plastic storage case
- .00015″ Repeatability

Series - 210						
Total Range	Dial Reading	Graduation	Dial Face Diameter	Order No.	Regular Price	SALE
0.024″	0-20-40	0.0001″	1.0630″	**MV35215A**	786.71	**685.04**
0.024″	0-20-40	0.0001″	1.575″	**MV3527712**	458.23	**399.03**
0.060″	0-10-20	0.0005″	1.0630″	**MV35214A**	403.02	**351.03**
0.120″	0-20-40	0.0005″	1.5750″	**MV35213GLA**	518.96	**451.99**

3362

Fowler Test Indicators - .030 Range

- Bi-directional constant clockwise rotation
- Automatic reversal
- Three dovetail mountings
- 3 Contact points with diameters of .040", .080" and .120"
- Jewelled movement
- Two dovetail extensions
- Molded case

Total Range	Dial Reading	Graduation	Dial Face Diameter	Contact Length	Order No.	Regular Price	SALE
0.030"	0-15-0	0.0005"	1"	1/2"	**NA5552562778**	202.84	**144.27**
0.030"	0-15-0	0.0005"	1"	1/2"	**NA5552562775**	202.84	**144.27**
0.030"	0-15-0	0.0005"	1 1/2"	1/2"	**NA5552562780**	212.10	**184.79**
0.030"	0-15-0	0.0005"	1-1/2"	1/2"	**NA5552562776**	212.10	**150.88**
0.030"	0-15-0	0.001"	1"	1/2"	**NA5552562774**	190.84	**135.76**

28832

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	176.56	**143.00**

4078

Mitutoyo Test Indicator with Ruby Stylus

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

Specifications:

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

Order No.	Regular Price	SALE
MT80513-472-10E	213.88	**173.23**

4228

PROCHECK Premier 1" Travel Dial Indicators

- Range: 0 - 1"
- Indicator graduation .001 per line .100 per revolution
- 1/4" Lug back and 3/8" stem
- Flat back and carbide tip included
- 1 Year Warranty

Dial Color	Order No.	Regular Price	SALE
Black	**PC21DI211BCT**	32.99	**26.67**
White	**PC21DI211WCT**	32.99	**26.67**

4340

PROCHECK Co-Axial Dial Indicators

- Designed for centering a work piece of fixture
- Operates at any angle, use vertical or horizontal
- While spindle rotates, the centering indicator always faces the operator with use of restraining rod (included)
- Center point feeler plus straight and curved feelers 4", 8" and, 12"
- Fitted plastic case
- 1 Year Warranty

Total Range	Range per Revolution	Graduation	Dial Face Diameter	Order No.	Regular Price	SALE
.240	.040	.0005	1-1/2	**PC21CI250I**	267.75	**215.65**
6mm	1mm	0.01mm	1-1/2	**PC21CI250M**	243.09	**195.71**

4506

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

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

Dial Size	Dial Color	Order No.	Regular Price	SALE
1 1/4"	Black	**PC21TI0301035B**	98.65	**79.50**
1 1/4"	White	**PC21TI0301035W**	108.65	**87.50**
1 1/2"	Black	**PC21TI0301505B**	109.73	**88.39**
1 1/2"	White	**PC21TI0301535W**	109.73	**88.39**

4541

PROCHECK ABSOLUTE Digital Mini Indicators

- Absolute technology that memorize origin zero
- IP54 Protection, origin set, preset value
- Optional USB data kit (PC26DCBL5PIN) available
- Compatible with optional wireless adaptor (PC26WTD1ABS)
- Resolution: .00005"/0.001mm
- Accuracy: .0016"
- Carbide tip
- Connect and interactive with Procheck absolute digital height gages
- 1 Year Warranty

Total Range	Order No.	Regular Price	SALE
0-1" / 0.254	**PC20EIM015ABEM**	282.98	**211.96**
0-2" / 0.50	**PC20EIM025ABEM**	377.38	**282.58**

4552

Mitutoyo Magnetic Bases

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

Features	Order No.	Regular Price	SALE
Standard	**MT807010S**	193.78	**156.97**
Fine Adjustment	**MT807011BN**	219.62	**177.93**
Flexible Arm	**MT807012-10**	298.56	**241.81**

4168

NOGA Double Fine Adjustment Magnetic Base

Model DG6160

- New double fine adjustment - Bottom: unique single direction; Top: universal swivel clamp
- Powerful ON/OFF magnetic base with 176 lbs force
- Holds 6mm, 8mm 3/8", dovetail, and back lug
- Unique central locking mechanism with Noga designed spring loaded bearing
- Five axis holder
- Instantly fastens in any position
- Fast and easy to set up gauges into required position
- Black finished arms
- Bottom arm measures 110mm
- Top arm measures 101mm

Order No.	Regular Price	SALE
FN60DG6160	209.56	165.48

4262

NOGA Flex Dial Gage Holders

- Five axis holder
- Powerful magnetic base
- Fine adjustment
- Central locking mechanism with spring loaded bearing
- 2.2 x 2.0 Arm dimension

Pull Force	Stem Hole	Description	Order No.	Regular Price	SALE
61 lbf	3/8"	Always-On Flex Dial Gage Holder with 360 Degree Fine Adj at Base	FN60NF1033	169.78	134.11
70 lbf	3/8"	Flex Dial Gage Holder with 360 Degree Fine Adj at Base	FN60NF1024	172.79	136.40
70 lbf	3/8"	Power On/Off Flex Holder with Fine Adjustment at Base-Standard Arm	FN60NF10433	149.60	118.11
70 lbf	3/8", 6 mm, or 8 mm	Flex Dial Gage Holder with Fine Adjustment on Top Clamp	FN60NF61003	137.49	108.59

28627

PROCHECK Magnetic Base Flexible Arm

Flexible Arm:

- With lever lock
- Accepts all AGD indicators
- Offers easy cam lever locking
- Total arm length 12"
- Magnet has 130 lbs holding power
- Case included

Chrome Plated Flex Arm:

- Corrosion resistant chrome plated flex arm
- 130 lbs pull magnet
- Holds rigidly in almost any position
- V-base for mounting on rounded surfaces
- 1 Year Warranty

Pull Force	Features	Order No.	Regular Price	SALE
85 lbf	Chrome, Flexible Arm	PC21MBCF130	87.56	70.49
130 lbf	12" Flexible Arm	PC21MBFL130	91.01	73.28

4244

PROCHECK Central Lock Universal Magnetic Base

- Magnetic base indicator holder with triple-jointed arm
- Three adjustable joints controlled by a single knob
- Powerful compact magnetic base
- Positive On/Off switch
- 1 Year Warranty

Order No.	Regular Price	SALE
PC21CLMB7FA	75.29	60.71

4491

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	30.30	24.51
Fine Adjustment	PC21340	34.92	28.19

4569

PROCHECK Flexible Stem Magnetic Bases

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

Description	Order No.	Regular Price	SALE
Standard	PC21350	78.34	63.12
Fine Adjustment	PC21355	79.03	63.63

4604

Starrett Magnetic Base

660 Global Series

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

Order No.	Regular Price	SALE
MV7068621	190.92	180.72

5079

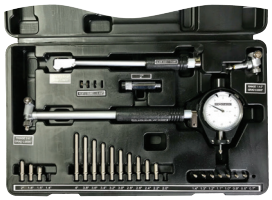
PROCHECK PREMIUM Electronic Digital Internal Bore Gages

- IP54 water and dust protective rating
- Resolution: 0.00005" / 0.001mm
- Carbide measuring surfaces
- Contact points are designed to allow measurements near the bottom of blind holes
- Setting ring included
- Compatible with 3 Procheck data output options: USB or Bluetooth wireless and hardwire connect (Not included)
- Friction thimble
- Completed with protective case
- Wrench included
- Complete in molded case
- 1 Year Warranty

Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
6 mm	8 mm	PC20EIBG68MI5	1013.90	759.21
8 mm	10 mm	PC20EIBG810MI5	967.65	724.54
10 mm	12 mm	PC20EIBG1012MI5	967.65	724.54
12 mm	16.51 mm	PC20EIBG1216MI5	849.65	636.27
16.5 mm	20.32 mm	PC20EIBG1620MI5	849.65	636.27
20.32 mm	25.40 mm	PC20EIBG2025MI5	849.65	636.27
25.4 mm	30.48 mm	PC20EIBG2530MI5	849.65	636.27
30.48 mm	40.64 mm	PC20EIBG3040MI5	920.46	689.23
40.64 mm	50.80 mm	PC20EIBG4050MI5	1038.46	777.62

4580

PROCHECK Super Precision Deep Bore Dial Gage Set

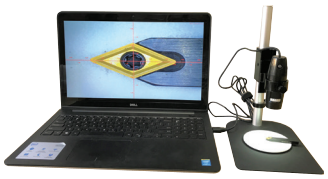


- Measures bore to 10" deep, Range 0.7" to 6" diameter
- Super Precision Deep Bore Gauge
- Accuracy: 0.0005" with crisp precision graduations
- Includes gage and interchangeable contact points
- Carbide tip on measuring plunger
- ABS storage case included
- 1 Year Warranty

Order No.	Regular Price	SALE
PC21DBG0765	299.74	241.30

4824

PROCHECK 200X Digital Microscope with Stand



- Magnification 10x - 200x @ 17" montitor full screen view
- Optical format: 1/3" CMOS Sensor (4:3)
- Field of View: Min: 2.5mm x 1.9mm @ 17mm working distance (200x), Max: 100mm x 75mm @ 300mm working distance (10x)
- Image sensor: 2.0 Mega Pixels
- Video Capture Resolution 1600 x 1200, 1280 x 1960, 640 x 480
- Color: 24 bit RGB or YUV or MJPG
- Lens: High precision microscope lens
- Focus Range: Manual from 8mm to 300mm
- White balance: Auto
- Exposue Time: Auto
- Light Source: Integrated adjustable LED illumination
- Length: 122mm
- Diameter: 36mm
- Output: USB streaming video
- Power supply: from USB
- Software included
- Microscope stand included
- 1 Year Warranty

Order No.	Regular Price	SALE
PC22DM200S	540.48	435.10

4376

Fowler XTRA MAG Versatile Universal & Mag Base Combo

Test Indicator:

- Range: .030"
- Reading: 0-15-0
- Jewelled movement
- Graduation: .0005"
- Auto-reversing
- .080" Diameter point

Mag Base:

- Two universal ball sockets
- Microfine adjustment screw
- 3-9/16" Extension arm
- Dovetail mounting

Order No.	Regular Price	SALE
NA5552585100	243.65	212.22

3776

PROCHECK Quill Clamp & Indicator Set

- Heavy-duty quill clamp with CNC machined body
- Red anodized finish
- Test indicator with .030" range and .0005" graduations
- 5/32" and 3/8" diameter posts with dovetail clamp
- Protective padded case
- 1 Year Warranty

Order No.	Regular Price	SALE
PC21Q35K	176.53	142.11

4773

PROCHECK Fowler Dial Depth Gage

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

BrandName	Order No.	Regular Price	SALE
Fowler	NA5552125006	308.51	219.33
Procheck	PC21DG0221BDF	129.91	104.65

† Black dial face

3749

Fowler Z-HEIGHT PLUS ABS Electronic Height Gages

Features

- **NEW** True ABS measuring system
- Supplied with a NIST certified test block (1" x 2" x 3")
- Supplied with mini USB data cable
- Heavy duty single column design
- Carbide scriber
- Ground and lapped base for smooth movement
- Steel rack with large hand wheel for coarse and fine adjustment
- Positive locking level for scriber
- Can be used with wireless transmitter (NA55541151000)

Total Range	Accuracy	Order No.	Regular Price	SALE
0-12.0" / 0-300 mm	+/-0 .0016" / 0.04 mm	NA55541750121	922.78	787.15
0-18.0" / 0-500 mm	+/-0 .002" / 0.05 mm	NA55541750181	1087.05	927.35
0-24.0" / 0-600 mm	+/-0 .002" / 0.05 mm	NA55541750241	1800.48	1535.81

28730

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**	334.45	**270.89**

4199

Mitutoyo Coolant Proof Micrometers

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

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

Min. Measure-ment	Max. Measure-ment	Thimble Type	Accuracy	Order No.	Regular Price	SALE
0"	1" / 25.4 mm	Ratchet	±.0.00005"	**MT80293-344-30**	277.03	**224.41**
0"	1" / 25.4 mm	Friction	±.0.00005"	**MT80293-348-30**	277.03	**224.41**
3" / 76.2 mm	4" / 101.6 mm	Ratchet	± 0.0001"	**MT80293-347-30**	506.70	**410.34**
1"	2"	Ratchet	±.0.00005"	**MT80293-345-30**	358.85	**290.58**
2" / 50.8 mm	3" / 76.2 mm	Ratchet	±.0.00005"	**MT80293-346-30**	470.81	**381.25**

4157

Starrett T444 Series Outside Micrometers

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

Model No	Minimum Mea-surement	Maximum Mea-surement	Order No.	Regular Price	SALE
T444.1XRL-1	0"	1"	**MV7052083**	163.83	**154.43**
T444.1XRL-2	1"	2"	**MV7052084**	193.50	**183.13**
T444.1XRL-3	2"	3"	**MV7052085**	211.56	**199.90**

5143

Starrett 0 - 6" (0 - 150mm) Outside Micrometer Set

Model No. ST444.1CXRLZ

- Measuring range 0 - 6" (0 - 150mm)
- Standard included with sizes over 1" (25mm)
- Graduation 0001"
- Carbide tipped faces
- Ratchet stop
- Lock nut
- Satin chrome finish on spindle

Order No.	Regular Price	SALE
MV7072532	1369.98	**1294.64**

4928

PROCHECK Dial Thickness Gage

- Main body machined from aluminum
- Easy lift handle
- Measuring faces lapped and polished

Measuring Range	Resolution	Order No.	Regular Price	SALE
0-0.500"	.0001"	**PC21DTG05**	226.15	**182.12**

4543

Opti-Visor - Magnification plus Comfort

2.5X Power

- 8" Focal length
- Optically correct precision glass prismatic lenses
- Genuine leather comfort band
- Unique dial adjustment fits anyone
- Wear over regular or safety glasses
- Tilts upward when not in use (no tunnel vision)
- **Note:** Opti-Loupe is also available and easily attaches to any Opti-Visor lens plate-adds extra power - for monocular use only - Order No. JZ50LP1

		Magnifying Visor			Replacement Lens		
Magnifi-cation	Focal Distance	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1.5X	20	**JZ50DA2**	92.12	**70.23**	**JZ50LP2**	58.98	**44.96**
1.75X	14	**JZ50DA3**	92.12	**70.23**	**JZ50LP3**	58.98	**44.96**
2X	10	**JZ50DA4**	92.12	**70.23**	**JZ50LP4**	58.98	**44.96**
2.5X	8	**JZ50DA5**	92.12	**70.23**	**JZ50LP5**	58.98	**44.96**
2.75X	6	**JZ50DA7**	99.80	**76.07**	**JZ50LP7**	67.13	**51.18**
3.5X	4	**JZ50DA10**	101.22	**77.09**	**JZ50LP10**	68.11	**51.94**

3433

PRECISION BRAND Steel Shim Stock

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

Thickness	Width	Length	Order No.	Regular Price	SALE
0.001″	6″	180″	**MA5216700**	65.30	**44.58**
0.0015″	6″	180″	**MA5216705**	65.30	**44.58**
0.010″	6″	180″	**MA5216710**	43.54	**29.72**
0.012″	6″	180″	**MA5216715**	44.03	**30.10**
0.015″	6″	180″	**MA5216725**	44.03	**30.10**
0.002″	6″	180″	**MA5216740**	42.08	**28.70**
0.020″	6″	180″	**MA5216750**	52.17	**35.56**
0.025″	6″	180″	**MA5216760**	53.43	**36.45**
0.003″	6″	180″	**MA5216765**	35.68	**24.38**
0.031″	6″	180″	**MA5216775**	57.14	**38.99**
0.004″	6″	180″	**MA5216780**	37.31	**25.53**
0.005″	6″	180″	**MA5216785**	37.96	**25.91**
0.006″	6″	180″	**MA5216790**	40.19	**27.43**
0.007″	6″	180″	**MA5216795**	40.19	**27.43**
0.008″	6″	180″	**MA5216800**	41.19	**28.07**

24417

PROCHECK 3 Pc. Precision Engineer Square Set

- 2″, 4″ & 6″
- Hardened steel
- True squares and right angles both inside and outside
- Beams and blades are ground and lapped for parallelism
- Length of blade is measured from corner edge of beam to end of blades
- DIN-1 standard
- Protective case included
- 1 Year Warranty

Order No.	Regular Price	SALE
PC23ESS246	103.73	**83.57**

4377

Empire 12″ Magnetic Tool Box Level

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

Order No.	Regular Price	SALE
KP7599112	21.64	**18.03**

3441

PROCHECK Ultra Thin Style Steel Parallels

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

Order No.	Regular Price	SALE
NM55UTPS20	130.53	**112.01**

4849

Fowler Z-CHECK 54 PLUS 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	186.21	**166.12**

29367

MAG-MATE® Inspection Tool Kits

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

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

Set Includes	Length	Order No.	Regular Price	SALE
Swivel Headed Retriever and 3X Magnifier	7 1/2″	**NE70MMK204**	75.84	**53.98**
Lighted Magnet pick-up tool, 4-Jaw, 7/16″ dia., 8-3/4″ Mechanical Finger retriever and a Round Magnifying Inspection Mirror	7″	**NE70MMK301**	99.70	**70.87**

4046

PROCHECK PREMIUM 4 Pc. 12" Combination Square Set

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

Order No.	Regular Price	SALE
PC23CS1244	142.75	114.94

4364

Fowler Mini-Mag Protractor

The mini-MAG Protractor provides instant 360º 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: 360º (4 x 90º)
- Resolution: .05º
- Accuracy: ± .1º
- Repeatability: ± .1º
- Voltage: standard 9V battery (250 hrs.)

Order No.	Regular Price	SALE
NA55544224501	162.14	115.32

3682

PROCHECK 360º Digital Level / Protractor

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

Model No	Accuracy	Type	Order No.	Regular Price	SALE
06LP360RW	0.2°	360° Digital Level Protractor with Wireless Connect	PC2306L-P360RW	160.25	129.03

4770

PROCHECK Round Bar Center Finder

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

Order No.	Regular Price	SALE
NE60RBCF38	14.43	11.68

4790

PROCHECK 10" Digital Protractor with Inch/ Metric Scale

- 8" (10" on back) Stainless steel rule blade with inch and metric scales
- Reversible reading, hold function and locking feature
- Measure inside and outside angles
- Lightweight, easy to use
- Measuring range: 0-360º, resolution: .05º
- Accuracy: ±0.2º, repeatability: .05º
- Battery: 3V CR2032 battery included (replacement part number KA56ECR2032)
- 1 Year Warranty

Resolution	Accuracy	Order No.	Regular Price	SALE
0.05"	+/- .2°	PC23EP10EM	58.17	46.86

4358

CRESCENT 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 feet	MZ50PQR1312	28.62	17.91
3/4"	12 feet	MZ50PQR1312	28.62	17.91
3/4"	16 feet	MZ50PQR1316	33.61	20.96
3/4"	16 feet	MZ50PQR1316	33.61	20.96
1"	25 feet	MZ50PQR1425	43.52	27.18
1"	25 feet	MZ50PQR1425	43.52	27.18

4031

CRESCENT Lufkin Speedwinder Tapes

- Impact-resistant self-standing orange/ black case
- Heavy-duty yellow clad blade protected by an abrasion resistant coating (.008" / 0.02mm thick)
- Extends and rewinds in less time than conventional long steel tapes
- Easy-to-read bold black markings

Blade Width	Blade Length	Graduation	Order No.	Regular Price	SALE
3/8"	100 feet	1/16", 1/8"	MZ50HYT100	92.25	57.40
3/8"	100 feet	10ths and 100ths	MZ50HYT100D	92.25	57.40
3/8"	50 feet	1/8", 1 mm	MZ50HYT15CME	63.89	39.75
3/8"	100 feet	1/8", 1 mm	MZ50HYT30CME	87.15	54.23
3/8"	50 feet	1/16", 1/8"	MZ50HYT50	67.63	42.16
3/8"	164 feet	1/8", 1 mm	MZ50HYT50CME	165.96	103.25

4037

FLUKE 233 Remote Display Digital Multimeter

The Fluke 233 Digital Multimeter with its removable display gives you the flexibility to take measurements in hard to reach places or in areas with restricted access and reduce the risk of arc flash by separating yourself from hazardous measurement situations. The Fluke 233 is ideal for any application where the measurement point is separated from controls or where you can't stay close to the meter during measurements due to hazards, moving machinery or in clean rooms.

- True RMS AC voltage and current for accurate measurements on non-linear signals
- Measure up to 1000 VAC and DC
- Measure up to 10 A (20 A for 30 seconds)
- Frequency to 50 kHz
- Low power wireless technology allows the display to be carried up to 10 m (33 ft) away from the point of measurement for added flexibility. no interference with measurements

Order No.	Regular Price	SALE
FL0612860	496.85	434.34

29888

FLUKE 116 Digital Multimeter

The Fluke 116 was specifically designed for HVAC professionals. It has everything you need to quickly troubleshoot problems with HVAC equipment and flame sensors, including a built-in thermometer to measure temperatures up to 400°C (752°F) and microamps to test flame sensors. The Fluke 116 also measures resistance, continuity, frequency, and capacitance. And the large white LED backlight makes it easy to see results even in poorly lit areas.

- Built in Thermometer for HVAC applications
- Microamp to test flame sensors
- Low input impedance helps prevent false readings due to ghost voltage
- Large white LED backlight to work in poorly lit areas
- Resistance, continuity, frequency and capacitance
- MIN/MAX/AVERAGE with elapsed time to record signal fluctuations
- CAT III 600 V safety rated
- 3 year warranty

Order No.	Regular Price	SALE
FL0612810	303.63	265.43

29883

FLUKE 902 FC True-RMS HVAC Clamp Meter

The Fluke 902 FC Clamp Meter, with Fluke Connect wireless connectivity, can help HVAC technicians improve productivity in the field. The rugged dual-rated CAT III 600 V, CAT IV 300 V meter equips you to perform many essential HVAC system measurements: microamps for testing pilot light sensors; resistance up to 60 kΩ; AC current and AC/DC voltage; capacitance; and contact temperature, all with just one tool. Plus its small form factor makes it easy to hang on to and navigate in tight work spaces.

- 200 µA DC current measurements to measure flame rod
- Extended resistance range to measure thermistors up to 60kΩ
- Capture flue gas temperature
- Measure start and run motor capacitors

Order No.	Regular Price	SALE
FL0713190	462.35	404.24

29895

FLUKE T6-1000 Electrical Tester

he Fluke T6-1000 Electrical Tester with FieldSense™ technology lets you quickly, safely take True rms voltage and current measurements without test leads.

- Measure voltage with or without test leads
- Be safer: measure voltage to 1000V through the open fork, without test leads
- Be faster: no need to open covers or remove wire nuts - simultaneously measure voltage and current
- Be everywhere: widest open fork in the industry, measure 4/0 wires up to 200 A

Order No.	Regular Price	SALE
FL0713155	411.78	357.00

29896

FLUKE Amprobe ST-102B Receptacle Tester with GFCI

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

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

Order No.	Regular Price	SALE
FL0512305	20.68	18.03

29894

FLUKE Pack 30 Professional Tool Backpack

The Fluke Pack30 backpack for professional electricians and tradesmen is rugged yet weighs less than 6.5 pounds. It is built with durable high-quality polyester and features over 30 heavy-duty pockets for storing and carrying your tools to the next job. Three main storage compartments for test tools, hand tools, and a 12" laptop/tablet; a fourth smaller molded pocket for protection of smaller items. Rugged waterproof molded bottom offers protection from the elements and keeps the backpack standing for convenient access to tools. See why the Fluke Backpack is the number one choice for carrying tools.

- Padding in the back for comfort and lumbar support
- Adjustable chest strap for even weight distribution and increased comfort

Order No.	Regular Price	SALE
FL0410545	276.03	241.30

29897

FLUKE T5-600 Electrical Tester

The T5-600 Electrical Tester is a versatile troubleshooting tool you can carry to every job site. Use it to check voltage, continuity, and current, all with one compact, rugged tool. Just select volts, ohms, or current and the tester does the rest. For higher voltage applications check out the Fluke T5-1000.

- Automatically measures volts AC and volts DC with precise digital resolution
- Displays resistance to 1000 Ω
- Easy and accurate OpenJaw™ current measurement
- Detachable SlimReach™ probe tips are customized for national electrical standards
- Continuity beeper
- Rugged enough to withstand a 10 ft (3 m) drop
- Auto off mode to conserve battery life
- 2 year warranty

Order No.	Regular Price	SALE
FL0713140	190.45	**160.53**

29899

KLEIN TOOLS ACCU-BEND™ Level

- Thumb screw attaches level to conduit to help eliminate dog legs when bending
- Large, easy-to-read high-visibility vial
- High-visibility orange body is easy to see on conduit and at the jobsite
- V-Groove fits contour of conduit and pipe

Model No	Length	Number of Vials	Vial Types	Order No.	Regular Price	SALE
935AB4V	6-1/4″	4	0-degree, 90-degree, 45-degree, 30-degree	**KP6016165**	51.66	**38.48**
935AB1V	2-1/2″	1	0-degree	**KP6016160**	25.58	**19.05**

30001

KLEIN TOOLS Digital Multimeter

- Measures up to 1000V AC/DC voltage, 10A AC/DC current and 40MΩ resistance plus temperature, capacitance, frequency, duty-cycle, test diodes and continuity
- CAT IV 600V / CAT III 1000V safety rating
- Built to endure a 6.6-foot (2 m) drop and withstand daily wear and tear on the job site
- Low battery indicator and easily accessible battery and fuse replacement compartment
- For use in basic and controlled electromagnetic environments such as residential, business and light-industrial locations
- Includes carrying pouch, test leads, alligator clips, thermocouple with adapter and batteries

Model No	Order No.	Regular Price	SALE
MM600	**KP6016035**	169.80	**126.37**

30004

KLEIN TOOLS Digital Pocket Thermometer

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

ManufacturerNo	Order No.	Regular Price	SALE
ET05	**KP6016215**	34.86	**26.04**

30005

KLEIN TOOLS Lighted Torpedo Billet Level

Rare Earth Magnet

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

Model No	Order No.	Regular Price	SALE
935RBLT	**KP6016180**	79.55	**59.31**

30010

KLEIN TOOLS 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**	70.86	**52.83**

30018

bollé SAFETY TRYON

- Sporty design, co-injected FLEX 160° temples
- Adjustable and non-slip bridge
- PLATINUM® anti-scratch/anti-fog coating
- BO1540305 has indoor/outdoor lens

BO1540304

Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black & Blue	**BO1540301**	18.73	**15.54**
Smoke	Black & Blue	**BO1540302**	18.73	**15.54**
Smoke with Blue Flash	Black & Blue	**BO1540304**	26.63	**22.10**
Brown	Black & Blue	**BO1540305**	18.73	**15.54**

2512

Honeywell HOWARD LEIGHT 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

LF50LL30

LF50LL1

LF50LL1D

Style	Standard Pack	Order No.	Regular Price	SALE
Uncorded	200	**LF50LL1**	0.21	**0.15**
Reusable / Uncorded	500	**LF50LL1D**	0.21	**0.15**
Corded	100	**LF50LL30**	0.44	**0.32**

Price each shown

23322

PYRAMEX Safety Glasses

Exceeds ANSI Z87 .1-2003 High Impact Requirements

Avante

- Lightweight sport styling
- Built in rubber nose pad
- Vented frame
- 99% Effective against UV rays
- Black frame

KB54SB4530D

KB54SB1810R10

V2 Reader

- Reader lens is out of user's direct line of sight
- 5 Different sizes of magnification available, clear lens
- 9.75 Base curved lens provides full side protection
- Black frame

Style - Avante				
Lens Color	**Magnification**	**Order No.**	**Regular Price**	**SALE**
Silver Mirror	None	**KB54SB4570D**	11.19	**7.43**
Infinity Blue	None	**KB54SB4560D**	8.74	**5.79**
Amber	None	**KB54SB4530D**	8.74	**5.79**
Gray	None	**KB54SB4520D**	8.74	**5.79**
Clear	None	**KB54SB4510D**	7.93	**5.26**
Blue Mirror	None	**KB54SB4575D**	11.19	**7.43**

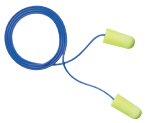
Style - V2 Reader Magnifiers				
Lens Color	**Magnification**	**Order No.**	**Regular Price**	**SALE**
Clear	1.0x	**KB54SB1810R10**	16.67	**11.06**
Clear	1.5x	**KB54SB1810R15**	16.67	**11.06**
Clear	2.0x	**KB54SB1810R20**	16.67	**11.06**
Clear	2.5x	**KB54SB1810R25**	16.67	**11.06**
Clear	3.0x	**KB54SB1810R30**	16.67	**11.06**

24

3M Disposable Earplugs

- Soft foam seals the ear canal comfortably
- Fits wide range of ear canal sizes
- Can be used with other personal protective equipment

KB351100



KB3511033

KB351110

KB3512063

Noise Reduction Rating	Standard Pack	Style	Order No.	Regular Price	SALE
29 dB	200	Disposable / Foam	**KB351100**	0.25	**0.22**
33 dB	200	Disposable	**KB3511033**	0.52	**0.42**
29 dB	100	Disposable / Corded	**KB351110**	0.75	**0.48**
33 dB	200	Disposable Soft Foam	**KB3512063**	0.25	**0.20**

Priced per each sold by box

22583

Semi-Rimless Safety Glasses with Black Frame, Clear Lens and Anti-Scratch / Anti-Fog Coating

- Lightweight, semi-rimless design provides all day user comfort
- Sleek, sporty style with wraparound lens protection
- Bayonet temples with flexible rubber tips offer a comfortable, secure fit
- Supplied with an adjustable neck cord
- Meets ANSI Z87.1+

PP1018530

new product

Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Scratch	Black	**PP1018530**	6.55	**4.27**
Clear	Anti-Scratch / Anti-Fog	Black	**PP1018535**	7.49	**4.89**
Gray	Anti-Scratch	Black	**PP1018540**	6.55	**4.27**
Light Blue	Anti-Scratch	Black	**PP1018545**	6.55	**4.27**
I/O	Anti-Scratch	Black	**PP1018550**	7.05	**4.60**
Blue	Anti-Scratch	Black	**PP1018555**	10.08	**6.54**

29835

superior glove Contender™ Knit Cut-Resistant Gloves

- Advanced composite yarn provides 360 cut protection
- 7-gauge composite filament fiber wrapped in aramid
- Unique spinning process helps cut and abrasion resistance stay consistent over entire surface for the lifespan of the glove
- Excellent comfort, dexterity and fit in a seamless string knit
- Latex free

ANSI A6 ANSI A7 new product

Size	Cut Rating	ManufacturerNo	Order No.	Regular Price	SALE
Medium	ANSI A6	SPGRK-M	**SG021160**	10.53	**7.49**
Large	ANSI A7	SPGRK-L	**SG021165**	10.53	**7.49**
X-Large	ANSI A7	SPGRK-XL	**SG021170**	10.53	**7.49**

30679

TenActiv™Composite-Knit Cut-Resistant Glove with Micropore Nitrile Grip

- TenActiv™/HPPE/steel/composite filament fiber blend provides excellent cut resistance
- Micropore nitrile coating does not absorb oils and liquids so hands stay dry
- Craters act like tiny suction cups to improve grip in wet and oily conditions
- Contains spandex in its composition for impressive comfort and tactile sensitivity
- High abrasion resistance along with comfort and dexterity
- Nitrile thumb crotch reinforcement to reduce wear in critical areas

ANSI A7 new product

Size	Cut Rating	ManufacturerNo	Order No.	Regular Price	SALE
Medium	ANSI A7	STACXPNRT-8	**SG021795**	17.78	**12.64**
Large	ANSI A7	STACXPNRT-9	**SG021800**	17.78	**12.64**
X-Large	ANSI A7	STACXPNRT-10	**SG021805**	17.78	**12.64**

30682

TenActiv™ Composite Filament Fiber Cut-Resistant Knit with Black Polyurethane Palms

- Lint-free, continuous filament yarn that is stronger than steel on an equal-weight basis
- High-strength composite filament fiber prevents yarn from poking through the hand or causing itchiness
- Low-shedding polyurethane palm coating provides great grip and excellent tactile feel
- The black glove body is designed to hide dirt to save you money on laundering costs over time
- Rated new ANSI cut level A4 for excellent protection against cut hazards

ANSI A4 new product

Size	Cut Rating	ManufacturerNo	Order No.	Regular Price	SALE
Medium	ANSI A4	STAGBPU-8	**SG021720**	8.98	**6.39**
Large	ANSI A4	STAGBPU-9	**SG021725**	8.98	**6.39**
X-Large	ANSI A4	STAGBPU-10	**SG021730**	8.98	**6.39**

30683

TenActiv™ Composite Knit Cut-Resistant Gloves with Polyurethane Palms

- TenActiv™ glove features fine 13-gauge lint-free continuous filament yarn that is stronger than steel on an equal-weight basis
- Rated ANSI level A3 for cut resistance
- Snug fitting, breathable, flexible, and ergonomically shaped
- Black polyurethane palm coating offers excellent dexterity and tactile sensitivity at the same time providing comfort and grip

ANSI A3 new product

Size	Cut Rating	ManufacturerNo	Order No.	Regular Price	SALE
Medium	ANSI A3	S13TAFGPU-8	**SG021705**	7.93	**6.02**
Large	ANSI A3	S13TAFGPU-9	**SG021710**	7.93	**6.02**
X-Large	ANSI A3	S13TAFGPU-10	**SG021715**	7.93	**6.02**

30681

Endura® Cut-Resistant Arc Flash Goat-Grain Driver Glove

- Soft and lightweight driver-style, goat grain leather glove is fully lined with a blended Kevlar /composite filament fiber for ANSI level A4 cut protection
- We've used a cut-and-sewn knit for optimal fit and eliminate bunching in areas like the thumb
- Goatskin has high-tensile strength and abrasion-resistant properties and is often referred to as nature's strongest leather
- The cut-and-sewn liner dons much more easily than a seamless knit, since it is tailored to the hand
- Keystone thumb provides extra durability
- Arc flash testing placed these gloves at level 3, with an Arc Thermal Performance Value (ATPV) of 36 cal/cm^2

ANSI A4 new product

Size	Cut Rating	ManufacturerNo	Order No.	Regular Price	SALE
Medium	ANSI A4	378GKGE-M	**SG021455**	25.02	**18.97**
Large	ANSI A4	378GKGE-L	**SG021460**	25.02	**18.97**
X-Large	ANSI A4	378GKGE-XL	**SG021465**	25.02	**18.97**
2X-Large	ANSI A4	378GKGE-2XL	**SG021470**	25.02	**18.97**

30684

Note: these gloves are designed for spark and flame resistance, not thermal contact

N-Ferno® 6823 Wind-Proof Hinged Balaclava

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

Order No.	Regular Price	SALE
LF656823	29.10	**23.75**

2606

Premium Comfort Protective Face Masks

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

Size	Order No.	Regular Price	SALE
Small/Medium	**AC201000**	11.39	**7.79**
Large/X-Large	**AC209000**	11.39	**7.79**

PRICE PER EACH MASK

29378

KN95 Respirator Mask

- 4-Layers of protection Non-woven fabrics+
- Hot air cotton + Melt blown fabric + Non-woven fabrics
- Includes adjustable nose bridge strip
- Comfortable and breathable with ear hook design
- PTE rating >95%
- BFE rating >95%
- FFP2 PROTECTION
- Sold in minimum packs of 20 or 50

Standard Pack	Order No.	Regular Price	SALE
50	**KN95RESPB**	5.90	**4.32**
20	**KN95RESPP**	6.23	**5.17**

PRICE PER EACH MASK

29356

Safety Glasses

Fortress

- Lightweight sports styling contours to face
- Straight back rubber coated temple tips
- Aerodynamic design prevents fogging
- Scratch resistant
- 99% effective against UV rays

Integra

- Single lens with adjustable temples
- Scratch resistant

Integra				
Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black	**KB54SB410S**	3.03	**2.01**
Clear	Red/White/Blue	**KB54SNWR410S**	3.03	**2.01**

Fortress				
Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Gray	**KB54SG3710D**	6.79	**4.51**
Clear	Silver	**KB54SS3710D**	6.79	**4.51**

Exceeds ANSI Z87 .1-2003 High Impact Requirements

24531

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	1.34	**0.85**

PRICE PER EACH MASK

29357

COB Wide Beam Pen Flashlight

- **Bulb:** COB (chips on board)
- **Lumens:** 400 High & 160 Low
- **Run Time:** 4.5 Hours - High, 15 Hours - Low, 40 Hours Blinking
- **Switch:** Button
- **Battery:** 3 AA (included)
- **Size:** 10 x 3.25 x 1.25
- **Features:** Powerful lighting that illuminates your work area, magnet on bottom allows for your hands to be completely free, anodized aluminum hosing is both water and impact resistant, high beam, low beam & red blinking for emergency

Order No.	Regular Price	SALE
KP9199171	20.69	**13.73**

2931

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**	168.38	**111.71**

Subject to model change

3171

Y0062 Thermal Leather Driver

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

Size	Order No.	Regular Price	SALE
Small	**LW0110515**	12.84	**10.34**
Medium	**LW0110520**	12.84	**10.34**
Large	**LW0110525**	12.84	**10.34**
X-Large	**LW0110530**	13.72	**11.05**

30710

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 -4ºF to 129.2ºF.
- Sold in min box carton qty only

Battery Size	Number of Batteries	ManufacturerNo	Order No.	Regular Price	SALE
AAA	24	4133353648	**DU0310000**	0.79	**0.47**
AA	24	4133352148	**DU0310050**	0.79	**0.47**
9V	12	4133352748	**DU0310200**	3.47	**2.07**
C	12	4133311440	**DU0310070**	1.74	**1.32**
D	12	4133311340	**DU0310090**	2.13	**1.27**

PRICED PER BATTERY

28639

Koehler BrightStar LED Lighthawk Gen II Lanterns

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

Battery Size	Body Color	Order No.	Regular Price	SALE
LI battery, 4 Cell, AC Charger	Orange	**KN0107610**	412.09	**331.98**
LI battery, 4 Cell, AC & DC Chargers	Orange	**KN0107610U**	435.54	**350.88**
LI battery, 4 Cell, AC Charger	Black	**KN0107611**	412.09	**331.98**
LI battery, 4 Cell, AC & DC Chargers	Black	**KN0107611U**	435.54	**350.88**
LI battery, 4 Cell, AC Charger	Yellow	**KN0107612**	412.09	**331.98**
LI battery, 4 Cell, AC & DC Chargers	Yellow	**KN0107612U**	435.54	**350.88**
LI battery, 4 Cell, DC Charger	Orange	**KN0107630**	412.09	**331.98**
LI battery, 4 Cell, DC Charger	Black	**KN0107631**	412.09	**331.98**
LI battery, 4 Cell, DC Charger	Yellow	**KN0107632**	412.09	**331.98**
LI battery, 4 Cell, 220V AC Charger	Orange	**KN0107650**	412.09	**331.98**
LI battery, 4 Cell, 220V AC Charger	Black	**KN0107651**	412.09	**331.98**
LI battery, 4 Cell, 220V AC Charger	Yellow	**KN0107652**	412.09	**331.98**
LI battery, 4 Cell, Direct Wire	Orange	**KN0107670**	412.09	**331.98**
LI battery, 4 Cell, Direct Wire	Black	**KN0107671**	412.09	**331.98**
LI battery, 4 Cell, Direct Wire	Yellow	**KN0107672**	412.09	**331.98**

2743

STREAMLIGHT Stylus® LED Penlights

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

LED Color	Order No.	Regular Price	SALE
White	**KA5765018**	36.92	**21.26**
Blue	**KA5765022**	36.92	**21.26**

25101

Koehler BrightStar Worksafe LED Flashlights

- **Bulb:** LED
- **Lumens:** 15720: 60 lumens, 15460: 80 lumens
- **Run Time:** 15720: 250 hrs., 15460: 200 hrs.
- **Battery:** 15720: (3) D Alkaline, 15460: (2) D Alkaline
- **Size:** 15720: 10.2 x 2.3", 15460: 8.1 x 2.3"
- **Features:** For use in hazardous situations, intrinsically safe, water-proof, anti-roll tube

Lumens Range	Order No.	Regular Price	SALE
80	**KN0115460**	31.07	**20.61**
60	**KN0115720**	32.59	**21.62**

2750

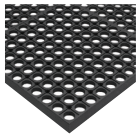
MAGLITE MAG-TAC® LED Tactical 3 Mode Flashlights

- **Bulb:** LED, 310 lumens, 182m beam distance
- **Run time:** 4 hours/ high, 17 hours/ low
- **Body:** Anodized aluminum alloy
- **Battery:** (2) CR123 included
- **Size:** 5.2" long
- **Features:** Aggressive knurled design that is water resistant and 2m drop resistant, detachable pocket clip with para cord hole, three modes: full power, power save and momentary all selectable through QuickClick™ mode selector

Body Color	Order No.	Regular Price	SALE
Black	**KA705045**	145.44	**96.49**
Urban Gray	**KA705230**	145.44	**96.49**

23810

WEARWELL 1/2" WorkSafe® Light Floor Mat



Comfortable and lightweight, easy to maintain

- Perfect for wet commercial or industrial areas
- Effective drainage and molded-in safety edges. 1/2" thick
- **CFR Gray** - resistant to mineral oil based cutting fluids and other industrial fluids

Length	Width	Order No.	Regular Price	SALE
10 feet	3 feet	**RV6053660**	481.84	**320.10**
5 feet	3 feet	**RV6053801**	209.21	**138.98**

25401

MAXIFLEX® CUT™ Seamless Knit Nitrile Gloves

new product

- Form Fit and Feel 360° breathability
- Premium Black Micro-Foam Nitrile coated palm
- Green Engineered Yarn Shell
- Reinforced Thumb Crotch
- ANSI Cut Level 2, EN Cut Level 3
- Sold by the dozen priced by the pair

Size	Color	CE Score	Order No.	Regular Price	SALE
Small	Green	-	**PP1022205**	16.91	**10.71**
Medium	Green	-	**PP1022200**	16.91	**10.71**
Large	Green	A2	**PP1022195**	16.91	**10.71**
X-Large	Green	-	**PP1022210**	16.91	**10.71**
2X-Large	Green	-	**PP1022220**	16.91	**10.71**

30716

G-Tek® Polykor™ Blended Glove - Double Dipped Nitrile

- Seamless construction offers increased comfort and breathability
- PolyKor™ shell is lightweight and provides excellent dexterity
- Double-dipped nitrile micro-surface coated palm and fingertips
- Knit wrist helps prevent dirt and debris from entering the glove
- Washable, resistant to chemicals, water, and ultraviolet light
- Extended cuff
- Sold by the dozen priced by the pair

new product

Size	Color	Cut Rating	Order No.	Regular Price	SALE
Small	Salt/Pepper	ANSI A4	**PP1021540**	10.57	**7.01**
Medium	Salt/Pepper	ANSI A4	**PP1021535**	10.57	**7.01**
Large	Salt/Pepper	ANSI A4	**PP1021530**	10.57	**7.01**
X-Large	Salt/Pepper	ANSI A4	**PP1021545**	10.57	**7.01**
2X-Large	Salt/Pepper	ANSI A4	**PP1021555**	10.57	**7.01**

30678

LAW® Safety Glasses

- Non-slip gel temple pads
- Universal nose bridge comfortably fits large user audience
- Comtemporary, wrap-around lens design

Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Clear	**KB85LW110**	3.83	**2.73**
Gray	Gray	**KB85LW112**	3.83	**2.73**

2538

9673 UltraTech® Foam Gloves

- 13 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**	4.74	**3.29**
Medium	**KB519673M**	4.74	**3.29**
Large	**KB519673L**	4.74	**3.29**
X-Large	**KB519673XL**	4.74	**3.29**

30717

Dexterity Foam Nitrile-Dipped Work Gloves

- Comfortable and durable light weight nylon shell.
- Excellent dry, wet, and oil grip.
- Good puncture and abrasion resistance.
- Form-Fit Knitwrist

new product

Color	Size	Abrasion Rating	Cuff Material	Tear Rating	ManufacturerNo	Order No.	Regular Price	SALE
Charcoal/ Black	Small	4	Elastic Knit	3	S13BFNT-7	**SG021315**	47.62	**33.86**
Charcoal/ Black	Medi-um	4	Elastic Knit	3	S13BFNT-8	**SG021320**	47.62	**33.86**
Charcoal/ Black	Large	4	Elastic Knit	3	S13BFNT-9	**SG021325**	47.62	**33.86**
Charcoal/ Black	X-Large	4	Elastic Knit	3	S13BFNT-10	**SG021330**	47.62	**33.86**

30723

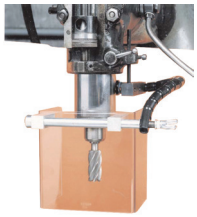
PRM PRO Medium-Duty Worker's Gloves

- 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**	5.12	**3.64**
Large	4-1/2"	**KB38205L**	5.67	**4.03**

30718

FLEXBAR VISORGUARD™ Shields



- Flexbar permits setting of Visorguard at the correct height and angle for each setup
- Flip shield up to load part and down for machining
- Special spring-loaded shaft makes shield stay put - no springback
- Wing-shaped shield protects workers at adjacent machines
- Flexbar locks rigid; has stainless aircraft grade tension cable
- Can be installed in minutes on CNC mills, conventional milling machines, drill chucks, etc.

			10"			40"		
Style	Shield Width	Shield Height	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Square	6"	4"	**GG4513032**	258.38	**183.67**	**GG4513032L**	395.84	**281.37**
Winged	16"	8"	**GG4513055**	273.28	**194.26**	**GG4513050**	389.22	**276.67**

2627

PRM PRO 9/16" Diamond Comfort Mats

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

		Black/Yellow			Black		
Length	Width	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3 feet	2 feet	**RV6610205**	70.55	**43.46**	**RV6610200**	59.23	**36.49**
5 feet	3 feet	**RV6610235**	178.06	**108.56**	**RV6610230**	148.03	**91.20**
10 feet	3 feet	**RV6610225**	352.41	**217.09**	**RV6610220**	296.07	**182.40**
75 feet	2 feet	**RV6610215**	1762.37	**1085.70**	**RV6610210**	1478.11	**910.59**
75 feet	3 feet	**RV6610245**	2643.54	**1628.53**	**RV6610240**	2217.16	**1365.87**
75 feet	4 feet	**RV6610255**	3524.72	**2171.38**	**RV6610250**	2956.23	**1821.17**

2927

Honeywell UVEX Protégé®

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

Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Fog	Black	**LF50S4200HS**	10.10	**7.19**
Gray	Anti-Fog	Black	**LF50S4201HS**	11.62	**8.26**

2696

Wells Lamont Industrial Y0145 Grain Leather Driver

- Cowhide
- Hi-vis fingertips and safety slogan "Watch Your Hands"
- Straight thumb
- Fabric bound hem

Size	Order No.	Regular Price	SALE
Small	**LW0110325**	8.75	**7.05**
Medium	**LW0110320**	8.75	**7.05**
Large	**LW0110315**	8.75	**7.05**
X-Large	**LW0110330**	9.30	**7.49**
2X-Large	**LW0110335**	10.32	**8.32**

30720

PRM PRO Economy Driver's Gloves

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

Size	Order No.	Regular Price	SALE
Large	**KB38800L**	6.90	**4.90**
Medium	**KB38800M**	6.90	**4.90**
X-Large	**KB38800XL**	6.63	**4.71**

30719

Wells Lamont Industrial Kevlar® Sleeves

- 2-Ply knit sleeve
- Flame resistant
- Made from 100% Kevlar®

Thumb Type	Size	Order No.	Regular Price	SALE
without Thumbhole	10"	**LW0110145**	3.34	**2.69**
without Thumbhole	14"	**LW0110150**	4.66	**3.76**
without Thumbhole	16"	**LW0110160**	5.33	**4.29**
without Thumbhole	18"	**LW0110165**	5.91	**4.76**
without Thumbhole	24"	**LW0110180**	7.95	**6.40**
with Thumbhole	14"	**LW0110155**	5.11	**4.11**
with Thumbhole	18"	**LW0110170**	6.38	**5.14**
with Thumbhole	24"	**LW0110185**	8.33	**6.72**

30721

Wells Lamont Industrial Y0135 Grain Leather Driver

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

Size	Order No.	Regular Price	SALE
Small	**LW0110340**	7.97	**6.43**
Medium	**LW0110345**	7.97	**6.43**
Large	**LW0110350**	7.97	**6.43**
X-Large	**LW0110355**	8.50	**6.85**

30715

Wells Lamont Industrial Y9294 Vis-Tech™ Cut Resistant PU Palm Dipped Gloves

- Lightweight and breathable cut resistant shell provides all-day comfort and protection
- Soft and flexible PU palm coating delivers excellent grip and dexterity
- Hi-vis orange
- Launderable for a longer wear life

Size	Cut Rating	Order No.	Regular Price	SALE
Small	ANSI A4	**LW0110825**	12.73	**10.26**
Medium	ANSI A4	**LW0110830**	12.73	**10.26**
Large	ANSI A4	**LW0110835**	12.73	**10.26**
X-Large	ANSI A4	**LW0110840**	12.73	**10.26**
2X-Large	ANSI A4	**LW0110845**	12.73	**10.26**

30722

Revolution bag Ecofriendly Trash Liners (Low Density)

- Superior strength bags - made from recycled agricultural film which is collected from America's farms.
- Replaces thick bags with a less thick REV bag, but with the same strength (field testing is always recommended)
- Meets the necessary standards to get your business or building U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) points
- ECOLOGO certified to UL 126

Bags Fit Containers Below

Color	Width	Length	Thickness	Capacity	PackSize	Replaces up to thickness	Order No.	Regular Price	SALE
Natural	22"	25"	0.3 mil	7-10 gallon	1,000	-	**RE201000**	54.75	**36.32**
Natural	23"	31"	0.3 mil	12-16 gallon	1,000	-	**RE201010**	71.01	**47.10**
Black	23"	31"	0.45 mil	12-16 gallon	500	-	**RE201020**	49.45	**32.80**
Natural	30"	36"	0.35 mil	20-30 gallon	250	-	**RE201030**	29.08	**19.29**
Natural	30"	36"	0.45 mil	20-30 gallon	250	12-14 MIC	**RE201040**	34.61	**22.96**
Black	33"	39"	0.59 mil	32-33 gallon	150	15-19 MIC	**RE201070**	48.04	**31.88**
Black	33"	39"	0.90 mil	32-33 gallon	250	1.5 MIL	**RE201050**	38.63	**25.63**
Natural	33"	39"	0.90 mil	32-33 gallon	150	1.5 MIL	**RE201060**	38.63	**25.63**
Natural	40"	46"	0.59 mil	40-45 gallon	250	15-19 MIC	**RE201120**	68.69	**45.57**
Natural	40"	46"	0.70 mil	40-45 gallon	100	1.2 MIL	**RE201130**	32.62	**21.64**
Black	40"	46"	0.90 mil	40-45 gallon	100	1.5 MIL	**RE201090**	36.80	**24.41**
Black	40"	46"	1.35 mil	40-45 gallon	100	2.0 MIL	**RE201100**	55.19	**36.61**
Black	40"	46"	1.75 mil	40-45 gallon	100	3.0 MIL	**RE201110**	71.56	**47.47**
Black	38"	47"	0.70 mil	56 gallon	100	1.2 MIL	**RE201190**	35.82	**23.76**
Black	43"	47"	0.90 mil	56 gallon	100	1.5 MIL	**RE201140**	40.44	**26.84**
Natural	43"	47"	0.90 mil	56 gallon	100	1.5 MIL	**RE201150**	40.44	**26.84**
Black	43"	47'	1.35 mil	56 gallon	100	2.0 MIL	**RE201160**	60.64	**40.23**
Natural	43"	47"	1.35 mil	56 gallon	100	2.0 MIL	**RE201170**	60.64	**40.23**
Black	43"	47"	1.75 mil	56 gallon	100	3.0 MIL	**RE201180**	78.62	**52.16**
Black	38"	58"	0.70 mil	60 gallon	100	1.2 MIL	**RE201250**	39.07	**25.92**
Natural	38"	58"	0.70 mil	60 gallon	100	1.2 MIL	**RE201260**	39.07	**25.92**
Black	38"	58"	0.90 mil	60 gallon	100	1.5 MIL	**RE201200**	44.10	**29.26**
Natural	38"	58"	0.90 mil	60 gallon	100	1.5 MIL	**RE201210**	44.10	**29.26**
Black	38"	58"	1.35 mil	60 gallon	100	2.0 MIL	**RE201220**	66.14	**43.88**
Natural	38"	58"	1.35 mil	60 gallon	100	2.0 MIL	**RE201230**	66.14	**43.88**
Black	38"	58"	1.75 mil	60 gallon	100	3.0 MIL	**RE201240**	85.76	**56.90**
Black	36"	56"	3 mil	55-60 Gallon	30	-	**RE201080**	57.66	**38.25**

22501

Right Choice™

the Right Choice for YOU!

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

SAVE 40%

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**	60.43	**34.37**
Hardwound Roll	7.875″	350′	1	Natural	12 Rolls	-	**RC0110105**	49.16	**27.95**
Hardwound Roll	7.875″	800′	1	White	6 Rolls	-	**RC0110110**	64.47	**36.66**
Hardwound Roll	7.875″	800′	1	Natural	6 Rolls	-	**RC0110115**	54.82	**31.18**
Hardwound Roll	7.875″	700′	1	White	6 Rolls	-	**RC0110120**	59.17	**33.66**
Hardwound Roll	7.875″	700′	1	Natural	6 Rolls	-	**RC0110125**	47.49	**27.00**
Kitchen Roll	11″	8″	2	White	12 Rolls	250 RL	**RC0110130**	58.61	**33.32**
Kitchen Roll	11″	7.8″	2	White	30 Rolls	85 RL	**RC0110135**	60.25	**34.26**
Center Pull	10″	7.3″	2	White	6 Rolls	600 RL	**RC0110140**	54.63	**31.06**
C-Fold	10″	11.42″	1	White	10 pks	200 PK	**RC0110145**	50.36	**28.64**
Multi-Fold	9″	9.45″	1	White	16 pks	250 PK	**RC0110150**	59.59	**33.88**
Multi-Fold	9″	9.45″	1	Natural	16 pks	250 PK	**RC0110155**	44.13	**25.10**
Single Fold	9″	9.45″	1	White	16 pks	250 PK	**RC0110160**	47.69	**27.11**

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

SAVE 40%

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**	94.51	**53.75**
Standard	4.5″	4″	1.5″	2	145.8′	500	96	**RC0110170**	119.25	**67.81**
Jumbo	3.25″	8″	3.5″	2	700′	-	12	**RC0110180**	50.87	**28.93**
Jumbo	3.3″	8.75″	3.25″	2	1000′	-	12	**RC0110175**	71.22	**40.50**

28724

RIGHT PRODUCTS. ✓
RIGHT QUALITY. ✓
RIGHT VALUE. ✓
RIGHT CHOICE. ✓

CRESCENT JOBOX Flammable Safety Cabinets

- Patent Pending EZ Level™ Bolster System
- Hi-Viz Safety and Usage Information Labels
- Safety Yellow exterior and Bright White Interiors
- Forklift Capability
- Continuous Staked Piano Hinges
- Heavy-Duty Enclosed Staggering Mechanism on Self-Close Models
- Flush Keyed and Padlock-able Paddle Handle
- Self-Latching 3-Point Door Lock System
- 2" Deep Leak-Proof Sump
- High Visibility Ground Connection

MADE IN USA

new product

Width	Depth	Height	Number of Shelves	Order No.	Regular Price	SALE
46"	24"	45 3/4"	1	**KN6110125**	2023.09	**1438.06**
46"	24"	66-23/32"	2	**KN6110134**	2753.07	**1956.94**
46"	31 39/64"	66-23/32"	2	**KN6110137**	3043.64	**2163.48**

Ships common carrier • FOB from stocking location.

28640

DURHAM MFG Est. 1922 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

MADE IN USA

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**	890.80	**547.20**
17 3/8"	18 1/8"	23 11/40"	1	110 lbs	**SB551004S50**	1000.17	**614.40**
23"	18"	41"	1	159 lbs	**SB551012M50**	932.98	**573.13**
23"	18"	41"	1	167 lbs	**SB551012S50**	1008.31	**619.39**
34"	34"	65"	2	509 lbs	**SB551060M50**	2524.65	**1550.87**
34"	34"	65 3/8"	2	533 lbs	**SB551060S50**	2741.87	**1684.30**
42 1/8"	18 1/8"	18 1/8"	1	146 lbs	**SB551012MH50**	1274.45	**782.88**
43"	18"	44"	1	285 lbs	**SB551030M50**	1610.40	**989.25**
43"	18"	45 3/8"	1	309 lbs	**SB551030S50**	1779.23	**1092.96**
43"	18"	65"	2	409 lbs	**SB551045M50**	2313.77	**1421.32**
43"	18"	66 3/8"	2	423 lbs	**SB551045S50**	2468.97	**1516.66**
43"	34"	65"	2	587 lbs	**SB551090M50**	3106.17	**1908.09**
43"	34"	65 3/8"	2	623 lbs	**SB551090S50**	3311.92	**2034.48**

Ships By Common Carrier from Manufacturer

5273

SUPER SCOOT by HUOT CNC Tool Cart

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

Taper Size	Tool Capacity	Weight	Order No.	Regular Price	SALE
40	90	132 lbs	**AP5323940**	949.36	**713.96**
50	52	132 lbs	**AP5323950**	949.36	**713.96**
HSK 63A	52	132 lbs	**AP5323970**	1230.12	**832.59**
HSK 100A	52	132 lbs	**AP5323980**	1230.12	**832.59**

Ships by Common Carrier

5383

KLEIN TOOLS Cordura® Ballistic Zipper Bag

- Constructed of Cordura® fabric, a high-performance material resistant to abrasions, tears and scuffs
- Heavy-duty nylon zipper
- Convenient storage for pliers, wrenches, screwdrivers, nut drivers, other tools and spare parts
- Cordura® is a registered trademark of INVISTA for durable fabrics

new product

Width	Depth	Height	Locking System	ManufacturerNo	Order No.	Regular Price	SALE
0-1/2"	12-1/2"	7"	Zipper	5139B	**KP6013000**	21.79	**16.41**

28975

KENNEDY 5-Drawer Roller Cabinets Models 275 & 295

RX50275XB

RX50275XR

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

Model 275X Features:

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

Model 295 & 295X Features:

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

RX50295XB

RX50275XR

Width - 27", Depth - 18", Height - 35"			
Color	**Order No.**	**Regular Price**	**SALE**
Brown Wrinkle	**RX50275XB**	1379.09	**1028.70**
Red	**RX50275XR**	1379.09	**1028.70**

Width - 29", Depth - 20", Height - 35"			
Color	**Order No.**	**Regular Price**	**SALE**
Brown Wrinkle	**RX50295XB**	1420.47	**1059.56**
Red	**RX50295XR**	1420.47	**1059.56**

*** Available while supplies last . • Ships by Truck**

23603

PRM PRO Mechanics Seat

- Perfect for shop or garage with removable seat cushion that doubles as a kneeling pad
- Made from polyethylene, which will not scratch, dent, rust or stain
- 24"W x 18"D x 20"H
- Bottom tub shelf measures 2-3/4" deep
- Rolling cart with four 4" easy-roll casters, two with locking brake
- Assembly required
- Weight capacity 400 lbs
- Limited lifetime warranty against manufacturer defects
- Ships Purolator at dimensional rate

Order No.	Regular Price	SALE
SA7050000	243.20	**149.82**

24310

DURHAM MFG Est. 1922 16 Gauge Industrial Strength Cabinets

- All welded 16 guage steel
- 3-point locking system wih keyed handle and 5/16" diameter lock rods
- Full height flush doors with full length piano hinges
- Doors feature 6-5/8" wide door reinforcement for added strength
- 6"H base / legs which provide access for forklifts: pre-punched holes allow for lagging to the floor
- 4 adjustable shelves rest on louver uprights and adjust on 4" centers (no tools required)

Width	Depth	Height	Shelf Capacity	Number of Shelves	Weight	Model No	Order No.	Regular Price	SALE
36"	24"	84"	900 lbs	4	354	2501-4S-95	**SB5525014S95**	2385.41	**1465.33**
48"	24"	72"	700 lbs	4	394	2502-4S-95	**SB5525024S95**	2788.41	**1712.89**
36"	18"	60"	600 lbs	3	254	2601-3S-95	**SB5526013S95**	1891.26	**1161.78**

Ships By Common Carrier from Manufacturer

5266

PRM PRO 25" Tote Tool Bag

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

Length	Width	Height	Order No.	Regular Price	SALE
25"	12"	13"	**LC707701**	80.47	**57.20**

5462

Bayhead Self-Dumping Hopper 1.1 Cubic Yd-with Caster Base

- Designed specifically to allow one operator to easily move up to 1000 lb.
- Fits through most office and warehouse doors; 32" wide
- Easily maneuverable by operator to open space for forklift to take over
- Tilts 40°, simple pull release safety hatch for easy dumping
- Automatically returns to upright position
- Comes with all-welded tubular frame and fork pockets.
- Sturdy designed blow molded hopper.
- Smooth rolling with 6" mold-on rubber wheels
- Available in black and red. Other colors available upon request.

Load Capacity	Overall Length	Overall Width	Overall Height	Color	Volume Capacity	Order No.	Regular Price	SALE
1000 lbs	73"	33"	54"	Black	1.1 Cubic Yard	**BH0211CB**	2814.00	**2472.31**
1000 lbs	73"	33"	54"	Red	1.1 Cubic Yard	**BH0211CR**	2898.42	**2472.31**

Ships FOB mfg. warehouse or DC.

29989

CRESCENT JOBOX 60" Piano Box 50" Height

- Site-Vault™ Security System
- Fully Welded Padlock Housing
- EZ-Loader® Skid Bolsters
- Recessed Handles
- Gas Spring Door with Quick Release Mounts
- Lift N Stow Shelf
- Formed Lid Sides Welded to Lid Bolsters Resist Pry Bar Entry
- Two Storage Bins on Both Side Walls
- Door Opens a Full 90 Degrees
- Lower Front Panel Reduces Lifting

Width	Height	ManufacturerNo	Order No.	Regular Price	SALE
31"	50"	1-682990	**KN6110106**	2875.21	**2043.76**

Ships FOB from Stocking Locations

28859

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

KP436034

KP436028

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

Middle Tool Chest

Number of Drawers	Drawer Type	Height	Width	Depth	Color	Total Cubic Inches	ManufacturerNo	Order No.	Regular Price	SALE
2	Ball Bearing	11.5"	26"	12"	Black	1,830	STST22621BK	**KP436028**	192.85	**155.36**

Tool Chest

Number of Drawers	Drawer Type	Height	Width	Depth	Color	Total Cubic Inches	ManufacturerNo	Order No.	Regular Price	SALE
4	Ball Bearing	17.5"	26"	12"	Black	3,663	STST22643BK	**KP436034**	282.86	**227.88**

Ships common carrier or Purolator dimensional rate

29388

WILLIAMS Hydraulic Maintenance Kit

- Sets are portable for easy use in the plant or on the job site
- Custom fitted, rugged blow molded storage case
- 10 Ton set has wheels for easy movement
- Designed for applications of pushing, spreading, pressing and more
- Pumps are rated from 8,000 to 10,000 PSI
- Hand pump

Contents of Kit

- Ram, hose assembly, hose coupler, ram coupler, case, hydraulic spreader, combination head (900), rubber head, ram toe, plunger toe, flat base, serrated saddle, wedge head, male connector
- **4M04T** Extension tubes included: 3", 6-1/8", 8-1/2", 16-1/2", 19-1/2"
- **4M10T** Extension tubes included: 4", 10", 18", 27"

Capacity	Closed Height	Maximum Height	Order No.	Regular Price	SALE
4 ton	11.00"	15 3/4"	**KP304M04T**	531.65	**329.64**
4 ton	11.00"	15 3/4"	**KP304M04T**	531.65	**329.64**
10 ton	13.63"	19 3/4"	**KP304M10T**	934.26	**579.27**
10 ton	13.63"	19 3/4"	**KP304M10T**	934.26	**579.27**

5539

Bayhead Drop-side Plastic Poly-Truck

- Heavy-duty molded plastic body
- All-welded steel angle-iron frame
- Casters welded to frame in a corner pattern
- Notch on one side 59" x 12"

Load Capacity	Overall Length	Overall Width	Overall Height	Color	Volume Capacity	Order No.	Regular Price	SALE
1000 lbs	71"	43"	42"	Gray	315 gallons	**BH0210030**	777.20	**682.83**
1000 lbs	70"	55"	49"	Gray	360 gallons	**BH0210045**	871.00	**765.24**

Ships FOB from Mfg.

29949

PRM PRO Shop Stool with Cushion Seat

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

Height	Order No.	Regular Price	SALE
29"	**RZ456000**	69.21	**39.36**

5481

Storage Bins

AkroBins Industrial Grade Polymers Storage Bins That Hang or Stack

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

								Yellow			Stone			Red			Blue		
Outside Length	Outside Width	Outside Height	Inside Length	Inside Width	Inside Height	Standard Pack	Use Dividers	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
5 3/8″	4 1/8″	3″	4 3/4″	3 7/16″	2 13/16″	24	SD50-40210	**SD5030210Y**	3.40	**1.93**	**SD5030210S**	3.40	**1.93**	**SD5030210R**	3.40	**1.93**	**SD5030210B**	3.40	**1.93**
7 3/8″	4 1/8″	3″	6 3/4″	3 7/16″	2 13/16″	24	SD50-40220	**SD5030220Y**	6.30	**3.58**	**SD5030220S**	6.30	**3.58**	**SD5030220R**	6.30	**3.58**	**SD5030220B**	6.30	**3.58**
10 7/8″	5 1/2″	5″	10 1/4″	4 3/8″	4 3/4″	12	SD50-40230	**SD5030230Y**	15.32	**8.71**	**SD5030230S**	15.32	**8.71**	**SD5030230R**	15.32	**8.71**	**SD5030230B**	15.32	**8.71**
10 7/8″	11″	5″	10 1/4″	10″	4 3/4″	6	SD50-40230	**SD5030235Y**	23.62	**13.44**	**SD5030235S**	23.62	**13.44**	**SD5030235R**	23.62	**13.44**	**SD5030235B**	23.62	**13.44**
10 3/4″	8 1/4″	7″	10″	6 9/16″	6 3/4″	6	SD50-40239	**SD5030239Y**	25.33	**14.40**	**SD5030239S**	25.33	**14.40**	**SD5030239R**	25.33	**14.40**	**SD5030239B**	25.33	**14.40**
14 3/4″	8 1/4″	7″	14″	6 9/16″	6 3/4″	12	SD50-40245	**SD5030240Y**	29.99	**17.06**	**SD5030240S**	29.99	**17.06**	**SD5030240R**	29.99	**17.06**	**SD5030240B**	29.99	**17.06**
14 3/4″	16 1/2″	7″	14″	14 3/4″	6 3/4″	6	SD50-40245	**SD5030250Y**	42.24	**24.02**	**SD5030250S**	42.24	**24.02**	**SD5030250R**	42.24	**24.02**	**SD5030250B**	42.24	**24.02**
18″	8 1/4″	9″	17 1/8″	6 1/2″	8 1/4″	6	SD50-40265	**SD5030265Y**	50.34	**28.63**	**SD5030265S**	50.34	**28.63**	**SD5030265R**	50.34	**28.63**	**SD5030265B**	50.34	**28.63**
18″	16 1/2″	11″	17 1/8″	14 7/8″	10 1/2″	3	SD50-40270	**SD5030270Y**	76.02	**43.23**	**SD5030270S**	76.02	**43.23**	**SD5030270R**	76.02	**43.23**	**SD5030270B**	76.02	**43.23**

72

S-Series Pump

- S-Series pumps are designed to operate at standard motor speeds and are suitable for pumping oils, inert chemicals, petroleum and various other liquids in transfer, circulation, lubrication and liquid pressurization.
- Design: Drive speeds up to 1800 rpm; discharge pressure to 200 psi; flow rate to 32.0 gpm; foot or flange mounted; with or without integral relief value.
- Material: Cast iron casings with precision machined, heat treated gears and case hardened shafts.
- Bearings: Replaceable iron sleeve bearings. Also available with carbon graphite or bronze bearings.
- Seal: Mechanical seal

new product

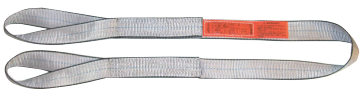
200 PSI Flow/Power	Mounting	Slip (gpm/psi)	Displacement	Rotation	Length	Width	Height	Shaft Diameter	Shaft Height	RPM	Order No.	Regular Price	SALE
4.0 gal/min @ 0.95 HP	Foot	0.0024″	0.00260 Gal/Rev	CW	6-1/4″	3″	3-11/16″	9/16″	2-3/8″	1,725 RPM	**NP10713102**	570.02	**486.22**
4.0 gal/min @ 0.95 HP	Foot	0.0024″	0.00260 Gal/Rev	CW	6-1/4″	3″	3-11/16″	9/16″	2-3/8″	1,725 RPM	**NP10713107**	615.57	**525.07**
4.0 gal/min @ 0.95 HP	Flange	0.0024″	0.00260 Gal/Rev	CW	6-1/4″	3″	3-11/16″	9/16″	2-3/8″	1,725 RPM	**NP107139107**	699.76	**596.89**
8.3 gal/min @ 1.6 HP	Flange	0.0052″	0.00520 Gal/Rev	CW	7-7/32″	3-7/16″	4-17/32″	5/8″	3″	1,725 RPM	**NP107139207**	821.22	**700.49**
8.3 gal/min @ 1.6 HP	Foot	0.0052″	0.00520 Gal/Rev	CW	7-7/32″	3-7/16″	4-17/32″	5/8″	3″	1,725 RPM	**NP10713207**	695.62	**593.36**
8.3 gal/min @ 1.6 HP	Foot	0.0052″	0.00520 Gal/Rev	CW	7-7/32″	3-7/16″	4-17/32″	5/8″	3″	1,725 RPM	**NP10713202**	639.03	**545.08**
21.4 gal/min @ 3.5 HP	Flange	0.009″	0.01350 Gal/Rev	CW	8-7/8″	4-7/16″	5-23/32″	3/4″	3-7/8″	1,725 RPM	**NP107139307**	1102.78	**940.65**
21.4 gal/min @ 3.5 HP	Foot	0.009″	0.01350 Gal/Rev	CW	8-7/8″	4-7/16″	5-23/32″	3/4″	3-7/8″	1,725 RPM	**NP10713307**	920.59	**785.25**
21.4 gal/min @ 3.5 HP	Foot	0.009″	0.01350 Gal/Rev	CW	8-7/8″	4-7/16″	5-23/32″	3/4″	3-7/8″	1,725 RPM	**NP10713302**	836.40	**713.44**
28.0 gal/min @ 4.7 HP	Foot	0.02″	0.1860 Gal/Rev	CW	8-7/8″	5″	5-31/32″	3/4″	3-7/8″	1,725 RPM	**NP10713502**	1087.60	**927.71**

Some Part Numbers Ship from Manufacturer

29907

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



Twisted Eye

Flat Eye

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**	55.10	**36.55**	**SE82EE2801T12**	62.71	**41.61**	**SE82EE2801T8**	47.48	**31.50**	-	-	-
2″	**SE82EE2802T10**	89.28	**59.23**	**SE82EE2802T12**	103.06	**68.38**	**SE82EE2802T8**	75.50	**50.09**	-	-	-
3″	**SE82EE2803T10**	142.13	**94.30**	**SE82EE2803T12**	164.43	**109.09**	**SE82EE2803T8**	119.84	**79.50**	**SE82EE2803T6**	97.54	**64.71**
4″	**SE82EE2804T10**	189.11	**125.46**	**SE82EE2804T12**	218.00	**144.63**	**SE82EE2804T8**	160.25	**106.31**	**SE82EE2804T6**	131.37	**87.16**

Type 4, Web Sling																
	Length - 10 feet			Length - 3 feet			Length - 4 feet			Length - 6 feet			Length - 8 feet			
Width	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	
1″	**SE83EE2801T10**	55.10	**36.55**	**SE83EE2801T3**	28.43	**18.86**	**SE83EE2801T4**	32.24	**21.39**	**SE83EE2801T6**	39.85	**26.44**	**SE83EE2801T8**	47.48	**31.50**	
2″	**SE83EE2802T10**	89.28	**59.23**	**SE83EE2802T3**	41.03	**27.22**	**SE83EE2802T4**	47.93	**31.80**	**SE83EE2802T6**	61.72	**40.94**	**SE83EE2802T8**	75.50	**50.09**	

23706

Economy Shelf Bins

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

- Molded industrial grade polymers for years of service
- Special built-in hanglock allows easy access to the entire bin
- Wide label holder molded in
- Purolator dimensional weight shipping rates apply

MADE IN USA

			Yellow			Red			Blue		
Outside Length	Outside Width	Outside Height	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
11 5/8"	2 3/4"	4"	SD5030110Y	4.86	2.77	SD5030110R	4.86	2.77	SD5030110B	4.86	2.77
11 5/8"	4 1/8"	4"	SD5030120Y	5.49	3.12	SD5030120R	5.49	3.12	SD5030120B	5.49	3.12
11 5/8"	6 5/8"	4"	SD5030130Y	8.46	4.81	SD5030130R	8.46	4.81	SD5030130B	8.46	4.81
17 7/8"	6 5/8"	4"	SD5030138Y	10.51	5.97	SD5030138R	10.51	5.97	SD5030138B	10.51	5.97
17 7/8"	8 3/8"	4"	SD5030158Y	14.36	8.17	SD5030158R	14.36	8.17	SD5030158B	14.36	8.17

22707

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	84.09	47.82

5483

Vestil Tilting Drum Rings

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

For Use With	Material	Width	Height	Order No.	Regular Price	SALE
30 Gallon	Carbon Steel	33-13/16"	5"	RV54TDR30	112.99	96.38
30 Gallon	Carbon Steel	33-13/16"	5"	RV54TDR30G	148.98	127.08
30 Gallon	Stainless Steel 304	33-13/16"	5"	RV54TDR30SS	355.97	303.64
55 Gallon	Carbon Steel	37-15/16"	5"	RV54TDR55	128.22	109.37
55 Gallon	Carbon Steel	37-15/16"	5"	RV54TDR55G	166.98	142.43
55 Gallon	Stainless Steel 304	37-15/16"	5"	RV54TDR55SS	373.97	318.99

5588

National Public SEATING Corp. Kangaroo Stool

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

Order No.	Regular Price	SALE
RZ406722HB	528.38	425.65

5460

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	58.52	41.59

5461

Vestil 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

#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

Material	Order No.	Regular Price	SALE
Polyethylene (LDPE) & Ethylene-Vinyl Acetate (EVA) Mixture	RV54JDFT	20.56	17.54
Polyethylene	RV54VDFT	11.71	9.99

5568

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	139.05	79.07

5478

***Tools not included, Ships via Purolator**

PRM PRO. Mechanic's Roller Seat with Drawer

- Hard-wearing steel frame
- Comfortable foam-cushioned seat holds up to 300 lbs
- Seat sits 14" off the ground
- Handy sliding drawer (ball-bearing slide)
- 2-1/2" roll smoothly swivel casters
- Sturdy high-impact pan keeps tools and parts close at hand
- Limited lifetime warranty

Height	Weight	Order No.	Regular Price	SALE
29"	14.3 lbs	RZ455000	70.39	40.03

5475

Ships via Purolator

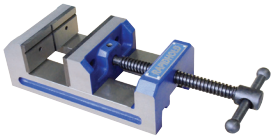
PALMGREN INC L-Clamps

- Just slide the clamping arm to the work piece and tighten
- When the job is complete, simply loosen the spindle and slide the clamping arm back
- L-Clamps handle a wide variety or work sizes and shapes allowing you to clamp the work piece quicker while using fewer clamps on each job
- Lifetime Warranty

Total Capacity	Throat Depth	Spindle Diameter	Clamping Pressure	Order No.	Regular Price	SALE
4	2 3/8″	1/2″	600 lbs	**JB509629304**	34.45	**24.89**
6	3 5/32″	9/16″	700 lbs	**JB509629306**	32.22	**26.54**
8	3 15/16″	5/8″	1,000 lbs	**JB509629308**	52.89	**43.43**
10	3 15/16″	5/8″	1,200 lbs	**JB509629310**	68.90	**45.72**
12	3 15/16″	3/4″	1,200 lbs	**JB509629312**	86.12	**57.79**
16	3 15/16″	3/4″	1,650 lbs	**JB509629316**	79.10	**64.90**

1437

RAPIDHOLD 4″ & 6″ Drill Press Vise



- Versatile vises machined on four sides
- May be used on base, either side or end
- Made of high grade gray iron and are precision ground
- Ground steel jaw plates are removable

Model No	Jaw Opening Capacity	Jaw Width	Jaw Depth	Weight	Order No.	Regular Price	SALE
7406	4″	4″	1 1/2″	9 lbs	**HT967406**	64.28	**51.82**
7407	6″	6″	2″	24 lbs	**HT967407**	161.76	**130.43**

F.O.B. Warren, MI

1530

MITEE-BITE PRODUCTS COMPANY ID Expansion™ Clamps

The ID Xpansion™ Clamp is the ideal way to hold multiple parts on an inside diameter for machining on your VMC or HMC. These machineable clamps are produced in 10 sizes and can hold internal diameters from .160 to 4.050.

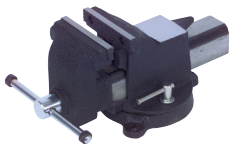
- Low profile
- Ideal for secondary operations on lathe parts
- Easily machined to size on lathe or mill
- Excellent for palletized setups
- Allows more parts per workcube or fixture plates
- Clamp body made of mild steel for machineability
- Tighten with hex key or hydraulic pull cylinders

Model No	Overall Height	Flange Thickness	Minimum Diameter	Thread Size	Holding Force	Order No.	Regular Price	SALE
31000	0.420″	0.120″	0.160″	#2-56	250 lbs	**SG7031000**	52.68	**44.20**
31050	0.860″	0.230″	0.280″	#8-32	950 lbs	**SG7031050**	52.68	**47.12**
31100	0.980″	0.230″	0.480″	1/4″-20	1,900 lbs	**SG7031100**	52.68	**44.20**
31150	0.980″	0.230″	0.530″	5/16″-18	2,500 lbs	**SG7031150**	56.05	**46.99**
31200	1.130″	0.250″	0.710″	3/8″-16	4,500 lbs	**SG7031200**	72.91	**61.09**
31250	1.250″	0.250″	0.900″	1/2″-13	5,900 lbs	**SG7031250**	89.93	**75.31**
31300	1.560″	0.310″	1.150″	5/8″-11	10,000 lbs	**SG7031300**	115.26	**96.52**
31350	1.560″	0.310″	1.150″	5/8″-11	10,000 lbs	**SG7031350**	126.46	**105.92**
31400	1.790″	0.310″	1.150″	5/8″-11	10,000 lbs	**SG7031400**	201.10	**168.40**
31450	1.790″	0.310″	1.150″	5/8″-11	10,000 lbs	**SG7031450**	246.82	**206.76**

22364

WORLD CLASS QUALITY All Steel Bench Vise

with Swivel Base



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

Jaw Width	Jaw Opening Capacity	Order No.	Regular Price	SALE
4″	4″	**HZ60SV4**	144.61	**104.65**
5″	5″	**HZ60SV5**	186.24	**134.75**
6″	6″	**HZ60SV6**	205.63	**148.72**
8″	8″	**HZ60SV8**	261.97	**189.48**

22717

DORIAN TOOL CNC High Speed Heavy Duty Extended Large Steel Live Center

- CNC High Speed Heavy Duty Live Centers
- Precise Concentricity T.I.R. 0.0001
- High Speed Precision Bearings
- Three Permanently Lubricated Bearings
- Sealed with Lip Seal and Locked with a Flange Shield
- Chromium-Molybdenum Alloy Steel
- Surface Heat Treated to 62 Rc and Precision Ground

Model No	Point Diameter	Head Diameter	Tip Diameter	Head Length	Point Length	Shank Diameter	Maximum RPM	Thrust Load	Order No.	Regular Price	SALE
PLC-CNC-ELSP-MT3	0.87″	2.17″	0.23″	1.85″	1.65″	3 MT	7,000	1,386 lbs	**FL3248232**	643.41	**562.48**
PLC-CNC-ELSP-MT4	1.14″	2.40″	0.31″	2.17″	2.01″	4 MT	5,500	1,883 lbs	**FL3248233**	716.07	**625.98**
PLC-CNC-ELSP-MT5	1.50″	3.15″	0.39″	2.48″	2.21″	5 MT	4,500	2,860 lbs	**FL3248234**	991.60	**866.90**
PLC-CNC-ELSP-MT6	1.65″	3.66″	0.47″	2.88″	3.47″	6 MT	3,200	3,740 lbs	**FL3248235**	2170.93	**1897.89**

23083

WILTON Classic Series Regular Duty F-Clamps

- Black Oxide Spindles resist wear and tear while impeding rust
- Drop Forged Arm provides minimal flex under heavy workloads
- Swivel Pad centers on workpiece for sturdy hold
- Sturdy Tommy Bar engineered for durability and comfort

Order No.	Regular Price	SALE
HZ4186200	91.85	**76.96**
HZ4186210	102.12	**89.66**
HZ4186220	122.00	**102.24**
HZ4186230	129.17	**108.20**

25541

Heavy Duty C-Clamps

- Strong malleable steel frames
- T-handle with swivel pad
- Meets US Federal Specifications GGG C-404
- Zinc plated screw spindle
- Lifetime warranty

Maximum Opening	Throat Depth	Clamping Force	Spindle Diameter	Order No.	Regular Price	SALE
4″	2 1/4″	1,762 lbs	1/2″	**KP8320404**	10.29	**7.75**
6″	2 3/4″	2,312 lbs	5/8″	**KP8320406**	16.54	**12.45**
8″	3 3/8″	2,312 lbs	5/8″	**KP8320408**	25.47	**19.18**

23251

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″	2JT	K30	0.040″	**HK5030209**	231.11	**196.34**
11N	3/8″	2JT	K32	0.040″	**HK5030215**	257.55	**218.82**
14N	1/2″	3JT	K3	0.040″	**HK5030221**	360.04	**305.82**
16N	5/8″	3JT	K4	1/8″	**HK5030227**	413.30	**351.03**
18N	3/4″	4JT	K4	1/8″	**HK5030233**	621.59	**527.94**
20N	1″	5JT	K5	3/8″	**HK5030239**	837.02	**710.82**

23491

MAG-MATE Rare Earth Pot Magnets

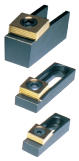
The ultimate magnet that combines strength, and reach out, through air gaps in the smallest possible package

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

Diameter	Thread Size	Thickness	Maximum Holding Capacity	Style	Order No.	Regular Price	SALE
3/8″	#8-32	1/2″	5 lbs	Two-Pole	**NE7010400**	19.81	**14.10**
1/2″	#10-24	1/2″	10 lbs	Two-Pole	**NE7010405**	21.57	**15.37**
3/4″	#10-24	1/2″	20 lbs	Two-Pole	**NE7010410**	29.37	**20.96**
1″	1/4″-20	1/2″	30 lbs	Two-Pole	**NE7010415**	41.06	**29.21**
1 1/4″	5/16″-18	1/2″	40 lbs	Two-Pole	**NE7010425**	57.04	**40.64**

23795

MITEE-BITE PRODUCTS COMPANY Multi-Fixture Clamp & Stop

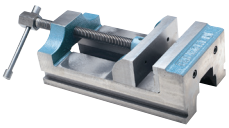


- Provides flexible set ups for hard to hold parts
- Works in both plates with tapped hole layouts or T-slot configurations
- Can be mounted vertically or horizontally
- Stops locate workpiece for repeat positioning
- Tapered mounting slot prevents movement when clamping pressure is applied
- Steps, as well as end faces of flat stops, are precision ground

Order No.	Regular Price	SALE
SG7023150	78.31	**65.66**

23942

PALMGREN INC Drill Press Vises



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

Jaw Height	Jaw Width	Jaw Depth	Jaw Opening Capacity	Throat Depth	Order No.	Regular Price	SALE
1″	1 1/2″	1″	1 1/2″	1″	**JB506**	160.77	**113.03**
1 1/2″	2 7/16″	1 1/2″	2 1/2″	1 1/2″	**JB5030**	180.86	**127.25**
1 1/2″	2 7/16″	1 1/2″	3″	1 1/2″	**JB5010**	171.41	**121.16**
1 3/4″	3″	1 3/4″	3″	1 3/4″	**JB5013**	358.85	**251.97**
1 3/4″	4″	1 3/4″	4″	2″	**JB5014**	426.32	**300.23**
2″	6″	2″	6″	2″	**JB5016**	802.39	**566.29**

24369

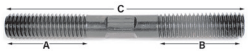
PALMGREN INC Angle Vise

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

Jaw Width	Jaw Opening Capacity	Overall Height	Base Width	Base Length	Order No.	Regular Price	SALE
3 1/2″	3 1/2″	4 5/16″	7 3/8″	7″	**JB50AVC35**	200.96	**152.91**

24363

TE-CO Studs for T-Slot Work



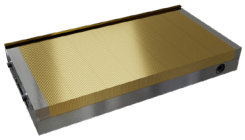
- Tensile 125,000 PSI
- Yield 100,000 PSI
- Black Oxide finish
- Case hardened
- All items hardened & rustproofed

Thread Size	Overall Length	Thread Length A	Order No.	Regular Price	SALE
3/8″-16	2″	3/4″	**SG5040502**	2.76	**2.41**
3/8″-16	2 1/2″	1″	**SG5040503**	2.76	**2.41**
3/8″-16	3″	1″	**SG5040504**	2.76	**2.41**
3/8″-16	3 1/2″	1 1/4″	**SG5040505**	2.77	**2.41**
3/8″-16	4″	1 1/4″	**SG5040506**	2.80	**2.41**
1/2″-13	2″	3/4″	**SG5040702**	2.92	**2.54**
1/2″-13	2 1/2″	1″	**SG5040703**	2.80	**2.41**
1/2″-13	3″	1″	**SG5040704**	2.92	**2.54**
1/2″-13	4″	1 1/2″	**SG5040706**	3.15	**2.79**
1/2″-13	5″	1 1/2″	**SG5040708**	3.26	**2.79**
1/2″-13	6″	1 1/2″	**SG5040710**	3.42	**3.05**
5/8″-11	3″	1″	**SG5040804**	3.63	**3.18**
5/8″-11	3 1/2″	1 1/4″	**SG5040805**	3.85	**3.30**
5/8″-11	4″	1 5/8″	**SG5040806**	3.85	**3.30**
5/8″-11	4 1/2″	1 3/4″	**SG5040807**	4.10	**3.56**
5/8″-11	5″	1 3/4″	**SG5040808**	4.34	**3.81**
5/8″-11	5 1/2″	1 3/4″	**SG5040809**	4.44	**3.81**
5/8″-11	6″	1 3/4″	**SG5040810**	4.68	**4.06**
5/8″-11	6 1/2″	1 3/4″	**SG5040811**	4.93	**4.32**
5/8″-11	7″	1 3/4″	**SG5040812**	5.16	**4.45**
5/8″-11	7 1/2″	1 3/4″	**SG5040813**	5.56	**4.83**
5/8″-11	8″	1 3/4″	**SG5040814**	5.56	**4.83**
5/8″-11	9″	1 3/4″	**SG5040815**	9.59	**8.26**
5/8″-11	10″	1 3/4″	**SG5040816**	10.69	**9.27**
5/8″-11	12″	1 3/4″	**SG5040817**	11.81	**10.16**
5/8″-11	14″	1 3/4″	**SG5040818**	13.75	**11.81**
5/8″-11	16″	1 3/4″	**SG5040819**	15.68	**13.46**
5/8″-11	18″	1 3/4″	**SG5040820**	17.21	**14.86**

† Items do not have flats on studs.

25231

Permanent Surface Grinder Chucks



- Dual Neodymium (Rare Earth) magnetic system: Nominal holding force: 100 N/cm2 - 145lbs/in²
- Min. workpiece size: 4 x 4 x 1 mm - .157 x .157 x .039 in.
- Regrinding limit: 7 mm - .275 in.
- Solid top plate with Transverse poles
- Pole Division: 1.4mm (.055 in) steel and 0.5mm (.019 in) brass
- Ideal for precise grinding of small and thin pieces, can also be used for large pieces
- Waterproof can be used with coolant or immersed in dielectric liquid (EDM applications)
- The upper top plate composed of brass and steel lamellae ensures high stability, accuracy, and efficiency of clamping
- One (1) year warranty for the magnetic system
- **Includes:** Set of Clamps, Allen Key, Rear and Side Stop Blocks & Instructions for use

Width	Length	Height	Order No.	Regular Price	SALE
5.91″	12″	2″	**MP015260**	1780.46	**1566.04**
6″	18″	2″	**MP015290**	2111.71	**1857.38**
8″	18″	2″	**MP015310**	3091.65	**2719.32**
7.87″	24″	2″	**MP015330**	3602.32	**3168.52**
11.81″	24″	2.20″	**MP015360**	5410.38	**4758.82**

Other sizes available - call for price and delivery

30151

NEWALL NMS300 Digital Turning Readouts

- Spherosyn300 Scales on Longitudinal Axis, Spherosyn300 or Microsyn300 on Cross Axis
- 300 Series Reader heads
- Scale Support Brackets
- Reader Head Mounting Bracket; Pkgs with Microsyn on cross slide will include LBK02 (Metric)HeadstocK Mount; Pkgs with Spherosyn on cross slide will include LBK01 (Metric)HeadstocK Mount; Pkgs with 72" and greater longitutinal travel come with 7M cablesHeadstocK Mount
- HeadstocK Mount

Features

- 2 or 3 Axis
- Multiple Language
- 4 User Defineable Function Keys
- Absolute/Incremental operation
- Inch/mm conversion
- Linear and segmented Error Compensation
- Radius/Diameter Reading
- Tool Offset Library (50)
- Taper Calculation
- DigiFind/Refernce mark
- Centre Find
- Undo Function

X-Axis Stage Travel	Y-Axis Stage Travel	Order No.	Regular Price	SALE
6"	40"	**MS3330640XXLP2**	1814.96	**1548.26**
8"	40"	**MS3330840XXLP1**	1814.96	**1548.26**
8"	40"	**MS3330840XXLP2**	1814.96	**1548.26**
10"	40"	**MS3331040XXLP1**	1814.96	**1548.26**
10"	40"	**MS3331040XXLP2**	1814.96	**1548.26**
10"	60"	**MS3331060XXLP1**	1965.40	**1676.53**
10"	60"	**MS3331060XXLP2**	1852.48	**1580.26**
12"	60"	**MS3331260XXLP1**	1965.40	**1676.53**
12"	60"	**MS3331260XXLP2**	1965.40	**1676.53**

F.O.B. Columbus, OH ▪ Additional Shipping Charges May Apply

6115

NEWALL NMS300 Digital Readouts

- Spherosyn300 Scales (3 ax package with quill includes Microsyn300)
- Scale Guards
- NMS300 Reader Heads
- Scale Support Brackets
- Reader Head Mounting Bracket Kit; Two axis packages will include BPK01 (Metric); Three axis with knee will include BPK01 and KBK01 (Metric); Three axis with quill will include BPK01 and QBK01 (Metric)
- Display Mounting Arm
- Features
- 2 or 3 Axis
- Multiple Language
- 4 User Defineable Function Keys
- Absolute/Incremental operation
- Axis Pre-Set / Zero reset
- Inch/mm conversion
- Linear/segmented Error Compensation
- DigiFind/Refernce mark
- Centre Find
- Undo Function
- 2 Year Warranty

3				
X-Axis Stage Travel	Y-Axis Stage Travel	Order No.	Regular Price	SALE
12"	30"	**MS3330123006BK3**	2012.33	**1716.53**
12"	30"	**MS3330123016BK2**	2012.33	**1716.53**
12"	36"	**MS3330123606BK3**	2012.33	**1716.53**
12"	36"	**MS3330123616BK2**	2012.33	**1716.53**
14"	36"	**MS3330143606BK3**	2012.33	**1716.53**
14"	36"	**MS3330143616BK2**	2012.33	**1716.53**
16"	36"	**MS3330163606BK3**	2012.33	**1716.53**
16"	36"	**MS3330163616BK2**	2012.33	**1716.53**

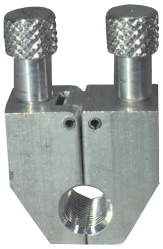
2				
X-Axis Stage Travel	Y-Axis Stage Travel	Order No.	Regular Price	SALE
12"	30"	**MS33301230XXBK1**	1511.32	**1289.18**
12"	36"	**MS33301236XXBK1**	1511.32	**1289.18**
14"	36"	**MS33301436XXBK1**	1511.32	**1289.18**
16"	36"	**MS33301636XXBK1**	1511.32	**1289.18**

F.O.B. Columbus, OH ▪ Additional Shipping Charges May Apply

6117

Quick Quill Stop

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

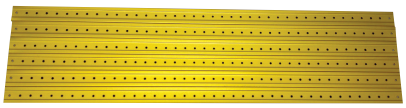


Order No.	Regular Price	SALE
NE60QS1	17.80	**14.35**

6343

5/8" 6 Pc. Milling T-Slot Cover Set

- Anodized Aluminum T-Slot table guard inserts
- Save time from cleaning, speedy and convenient to enhance working efficiency
- Drilled for coolant drainage
- 6 Per package approximately 16" long each



Compatible With	Order No.	Regular Price	SALE
5/8" T-Slot Milling Tables	**JF70MSCSET**	53.83	**40.77**

5621

Drill Doctor The Drill Bit Sharpener — Drill Sharpeners

Features:

- User Replaceable Diamond Sharpening Wheel
- New "Push to Stop" Design on Splitting Port Will Not Allow Over Splitting Bit Point
- Cast Aluminum Point Angle Shuttle For Added Durability
- New Permanent Magnet Motor Produces Consistant Power Regardless of Speed or Load

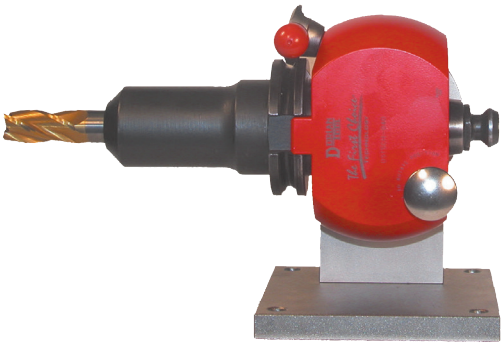
Angle	Order No.	Regular Price	SALE
118°, 135°	**PM71DD500X**	179.36	**157.35**
115°-140°	**PM71DD750X**	213.86	**187.71**

F.O.B. Ashland, OR

5781

Dorian Tool — Smart Tool-Setter Tightening Fixtures

- Toolholder taper protected from chips & scratches
- Teflon® Based Xylan coating
- Quick Lock & Setting
- Multi-position setting
- Heavy duty construction
- Precise quality & workmanship



Model No	Spindle Taper	Order No.	Regular Price	SALE
DSTSCH-030	BT30	**GG3536000**	568.31	**498.60**
DSTSCH-040	CAT40/BT40	**GG3536001**	568.31	**498.60**
DSTSCH-050	CAT50/BT50	**GG3536002**	678.59	**595.38**
DSTSCH-063	HSK63	**GG3536003**	771.12	**676.53**
DSTSCH-100	HSK100	**GG3536004**	819.30	**718.82**

F.O.B. East Bernard, TX

1076

NO SOAP! NO WATER! NO PROBLEM!™

WYPALL® gojo SCRUBS® Waterless Cleaning Towels

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

SAVE 35%

BrandName	ProductName	Order No.	Price	SALE
Scrubs	Citrus Fragrance Hand Cleaning Towels, 10 in x 12 in, 72 Wipes per Container	**LM54422C072**	18.54	**12.05**

3197

Prices Effective January 1 through March 31, 2022

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