

FEATURING **Mitutoyo**

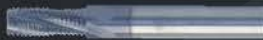
Digimatic Calipers



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Helical Flute Thread Mills - UN



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TuffCut® XR 7 Flute Carbide End Mills



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Ceramic with Grinding Aid Quick Change Discs



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Locking Pliers Sets

DORIAN TOOL 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	344.61	258.46

8744

DORIAN TOOL Buy a Complete Boring Bar Set

Includes 4 Boring Bars and 20 TiN Coated Inserts

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

- TPBN 06-2 1/2 .430
- TPBN 08-2 1/2 .590
- TPBN 10-2 5/8 .682
- TPBN 12-3 3/4 .845
- (10) TPGH 21.51 inserts
- (10) TPGH 321 inserts
- (1) Torx key T7
- (1) Torx key T10
- (1) Storage case
- Note: Set includes TiN coated grade DPP30GT carbide inserts for general purpose alloy steel, stainless and ductile iron applications



Order No.	Regular Price	SALE
FL4543840	627.89	470.92

8663

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

- 60° Plain type
- High speed steel



Order No.	Regular Price	SALE
AV4110000	57.46	45.97

22312

KEO Center Drills Plain Type 60°

- Right hand
- High speed steel



Size	Drill Bit Size / Cutting Diameter (DC)	Overall Length (OAL)	Order No.	Regular Price	SALE
#0	1/32"	1-1/4"	AV4210032	9.09	7.27
#1	1/8"	1-1/4"	AV4110100	6.34	5.07
#2	3/16"	1-7/8"	AV4110200	6.62	5.30
#3	1/4"	2"	AV4110300	6.90	5.52
#4	5/16"	2-1/8"	AV4110400	7.12	5.70
#4.5	3/8"	2-1/2"	AV4114500	9.82	7.86
#5	7/16"	2-3/4"	AV4110500	11.30	9.04
#6	1/2"	3"	AV4110600	16.98	13.58
#7	5/8"	3-1/4"	AV4110700	25.75	20.60
#8	3/4"	3-1/2"	AV4110800	35.38	28.30
#9	7/8"	3-5/8"	AV4110900	64.19	51.35
#10	1"	3-3/4"	AV4111000	84.26	67.41

22469

Dumont Keyway Broach Sets

- Now you can make precision holes or keyways in seconds... a few at a time or production quantities... by a simple push-through broaching operation using a hand operated arbor press or hydraulic press
- All sets furnished in handsome varnished wood box come complete with precision broaches, slotted bushings, and necessary shims
- **Set No. 00** - the most common keyway combinations for small keyways and bores. 3 broaches & 5 bushings (all bushings are collared style) = 15 combinations
- **Set No. 10** - Our best selling broach set. 4 broaches & 9 bushings (all bushings are plain style) = 18 combinations



Bushings	Style	Order No.	Regular Price	SALE
1/4 5/16 3/8 7/16 1/2	A	FB5011101	350.10	297.59
1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-3/8 1-1/2	B C	FB5011104	611.20	519.52

22311

NOGA Micro Deburring Set

Model FT3000

- Contains 3 micro tools, (1) micro deburring tool FT1000, (1) micro scraper FT1100 and (1) micro rotodrive countersink FT1200
- Ideal for tool and die maker
- For extra fine jobs
- Blades are not replaceable



Order No.	Regular Price	SALE
FN55FT3000	36.00	23.40

10093

Dexterity® Cold Weather winter gloves with Water-resistant Protection

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



Size	Cut Rating	Puncture Rating	ManufacturerNo	Order No.	Regular Price	SALE
Large	ANSI A3	ANSI Level 4	TKTAGLX-L	SG0273490	9.27	6.95
Medium	ANSI A3	ANSI Level 4	TKTAGLX-M	SG0273480	9.27	6.95
Small	ANSI A3	ANSI Level 4	TKTAGLX-S	SG0273470	9.27	6.95
X-Large	ANSI A3	ANSI Level 4	TKTAGLX-XL	SG0273500	9.27	6.95
2X-Large	ANSI A3	ANSI Level 4	TKTAGLX-XXL	SG0273510	9.27	6.95
3X-Large	ANSI A3	ANSI Level 4	TKTAGLX-XXX	SG0273520	9.27	6.95

30833

Neck Gaiter-Two Layered FR Material

- Offers a high level of protection against heat, flame and electric arc.
- Designed for maximum comfort and all-day wear.
- Two-layer Kermel-viscose blend.
- Fire Resistant material that is launderable.
- NFPA 70E compliant and CAT2; Ebt 16 cal/cm2.



Type	Color	Fits Hat Size	Material	Order No.	Regular Price	SALE
Gaiter	Grey	One Size	FR SOFT FABRIC	SG0261220	15.19	11.39

30863

Dexterity® Water Repellant gloves for Cold Environments

- Treated with water repellent formula
- Fleece lining provides excellent winter protection in temperatures down to -5°C / 23°F
- A micropore PVC coating retains its flexibility in sub-zero temperatures
- Extended back of hand coating provides protection in wet and wintry conditions
- Quick-drying and lightweight for all-day comfort



Size	Cut Rating	Abrasion Rating	Puncture Rating	ManufacturerNo	Order No.	Regular Price	SALE
Small	ANSI A3	ANSI Level 3	ANSI Level 2	SNTAPVCFB/S	SG0270150	11.33	8.49
Medium	ANSI A3	ANSI Level 3	ANSI Level 2	SNTAPVCFB/M	SG0270160	11.33	8.49
Large	ANSI A3	ANSI Level 3	ANSI Level 2	SNTAPVCFB/L	SG0270170	11.33	8.49
X-Large	ANSI A3	ANSI Level 3	ANSI Level 2	SNTAPVCFB/XL	SG0270180	11.33	8.49
2X-Large	ANSI A3	ANSI Level 3	ANSI Level 2	SNTAPVCFB/XX	SG0270190	11.33	8.49

30831

Emerald CX Winter-Cold Gloves with A5 Cut Protection

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



Size	Cut Rating	Abrasion Rating	Puncture Rating	ManufacturerNo	Order No.	Regular Price	SALE
Large	ANSI A5	ANSI Level 4	ANSI Level 3	SCXTAPVC/L	SG0268170	22.28	16.71
Medium	ANSI A5	ANSI Level 4	ANSI Level 3	SCXTAPVC/M	SG0268160	22.28	16.71
Small	ANSI A5	ANSI Level 4	ANSI Level 3	SCXTAPVC/S	SG0268150	22.28	16.71
X-Large	ANSI A5	ANSI Level 4	ANSI Level 3	SCXTAPVC/X	SG0268180	22.28	16.71
2X-Large	ANSI A5	ANSI Level 4	ANSI Level 3	SCXTAPVCXX	SG0268190	22.28	16.71

30830

TenActiv™ Waterproof Cut-resistant gloves

- 18-gauge knit combines dexterity and comfort
- These gloves deliver unbeatable protection from harsh elements due to Superior's exclusive breathable waterproof and windproof membrane
- Gloves won't turn inside out when taken off
- Foam nitrile palm coatings provide a strong, steady grip when handling lightly oiled parts



Size	Cut Rating	Abrasion Rating	ManufacturerNo	Order No.	Regular Price	SALE
Small	ANSI A4	ANSI Level 3	S18WTFN-7	SG0267180	28.72	21.54
Medium	ANSI A4	ANSI Level 3	S18WTFN-8	SG021875	28.72	21.54
Large	ANSI A4	ANSI Level 3	S18WTFN-9	SG021880	28.72	21.54
X-Large	ANSI A4	ANSI Level 3	S18WTFN-10	SG021885	28.72	21.54
2X-Large	ANSI A4	ANSI Level 3	S18WTFN-11	SG0267190	28.72	21.54
3X-Large	ANSI A4	ANSI Level 3	S18WTFN-12	SG0267200	28.72	21.54

30829

Watch Cap- Two layered FR Material

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



Type	Color	Fits Hat Size	Material	Order No.	Regular Price	SALE
Watch Cap	Grey	One Size	FR SOFT FABRIC	SG0273720	18.42	13.81

30864

Endura® Winter Gloves with Cut & Arc flash Protection

- Lining provides 360° cut protection with ANSI Level A4 cut resistance
- Arc Flash testing placed these gloves at level 4, with an Arc Thermal Performance Value (ATPV) of 52 cal/cm²
- Lined with 100g Thinsulate™ for winter protection in temperatures down to -15°C / 5°F
- High tensile strength goatskin provides outstanding abrasion resistance
- Treated with Oilbloc™ for unbeatable oil and water resistance
- Backs are elasticized for a snug fit



Size	Cut Rating	Abrasion Rating	Arc Rated	Puncture Rating	ManufacturerNo	Order No.	Regular Price	SALE
Small	ANSI A4	ANSI Level 4	ANSI CAT 4	ANSI Level 4	378GOBTKLS	SG0252730	40.94	30.70
Medium	ANSI A4	ANSI Level 4	ANSI CAT 4	ANSI Level 4	378GOBTKLM	SG0252740	40.94	30.70
Large	ANSI A4	ANSI Level 4	ANSI CAT 4	ANSI Level 4	378GOBTKLL	SG0252750	40.94	30.70
X-Large	ANSI A4	ANSI Level 4	ANSI CAT 4	ANSI Level 4	378GOBTKLX	SG0252760	40.94	30.70

30824

PENTACUT Parting and Grooving Inserts



Cutting Width (CW)	Corner Radius (RE)	ProductName	Order No.	Price
0.118"	0.059"	PENTA 24N300J150 IC908	EH6003091	67.26
1/8"	0.0079"	PENTA 24N318J020 IC908	EH6003092	63.14
0.02"	0"	PENTA 24N050J000 IC908	EH6003104	70.66
0.031"	0"	PENTA 24N080J000 IC908	EH6003105	66.44
0.039"	0.0016"	PENTA 24N100J004 IC908	EH6003106	61.49
0.047"	0"	PENTA 24N120J000 IC908	EH6003107	61.49
0.055"	0"	PENTA 24N140J000 IC908	EH6003109	61.49
0.058"	0"	PENTA 24N147J000 IC908	EH6003111	61.49
0.062"	0.0059"	PENTA 24N157J015 IC908	EH6003113	61.49
0.062"	0.0311"	PENTA 24N157J079 IC908	EH6003114	65.30
0.067"	0.0039"	PENTA 24N170J010 IC908	EH6003115	61.49
0.07"	0.0071"	PENTA 24N178J018 IC908	EH6003116	61.49
0.077"	0.0059"	PENTA 24N196J015 IC908	EH6003118	61.49
0.079"	0.0394"	PENTA 24N200J100 IC908	EH6003120	65.30
0.087"	0.0059"	PENTA 24N222J015 IC908	EH6003121	61.49
0.091"	0.0079"	PENTA 24N230J020 IC908	EH6003122	61.49
0.094"	0.0059"	PENTA 24N239J015 IC908	EH6003123	61.49
0.094"	0.0472"	PENTA 24N239J120 IC908	EH6003124	65.30
0.097"	0.0079"	PENTA 24N247J020 IC908	EH6003125	63.14
0.106"	0.0039"	PENTA 24N270J010 IC908	EH6003126	63.14
0.113"	0.0079"	PENTA 24N287J020 IC908	EH6003127	63.14
0.118"	0"	PENTA 24N300J000 IC908	EH6003128	63.14
0.118"	0.0079"	PENTA 24N300J020 IC908	EH6003129	63.14
0.118"	0.0157"	PENTA 24N300J040 IC908	EH6003130	63.14
0.124"	0.0059"	PENTA 24N315J015 IC908	EH6003131	63.14
0.079"	0.0079"	PENTA 24N200J020 IC908	EH6003218	61.49
0.041"	0"	PENTA 24N104J000 IC908	EH6003220	61.49
0.059"	0.0039"	PENTA 24N150J010 IC908	EH6003226	61.49
0.079"	0.0079"	PENTA 24N200Z020 IC908	EH6003380	61.49
0.059"	0.0039"	PENTA 24N150Z010 IC908	EH6003416	61.49
0.118"	0.0079"	PENTA 24N300Z020 IC908	EH6003417	63.14
0.094"	0.0059"	PENTA 24N239PF015 IC908	EH6003500	66.44
0.118"	0.0079"	PENTA 34N300C020 IC908	EH6003524	76.12
0.098"	0.0079"	PENTA 34N250C020 IC908	EH6003535	76.12
0.118"	0.0157"	PENTA 34N300C040 IC908	EH6003536	76.12
0.079"	0.0079"	PENTA 34N200C020 IC908	EH6003537	68.80
0.138"	0.0098"	PENTA 34N350C025 IC908	EH6003538	78.38
0.157"	0.0118"	PENTA 34N400C030 IC908	EH6003539	78.38
0.106"	0.0039"	PENTA 34N270C010 IC908	EH6003566	76.12
0.079"	0.0039"	PENTA 34R200C06D IC908	EH6003587	68.80
0.079"	0.0039"	PENTA 34L200C06D IC908	EH6003588	68.80
0.079"	0.0039"	PENTA 34R200C15D IC908	EH6003589	68.80
0.079"	0.0039"	PENTA 34L200C15D IC908	EH6003590	68.80
0.118"	0.0079"	PENTA 34R300C06D IC908	EH6003591	76.12
0.118"	0.0079"	PENTA 34L300C06D IC908	EH6003592	76.12
0.118"	0.0079"	PENTA 34R300C15D IC908	EH6003593	80.65
0.118"	0.0079"	PENTA 34L300C15D IC908	EH6003594	80.65
0.079"	0.0394"	PENTA 34N200C100 IC908	EH6003601	73.23
0.087"	0.0059"	PENTA 34N222C015 IC908	EH6003602	68.80
0.091"	0.0079"	PENTA 34N230C020 IC908	EH6003603	68.80
0.094"	0.0059"	PENTA 34N239C015 IC908	EH6003604	68.80
0.094"	0.0472"	PENTA 34N239C120 IC908	EH6003605	73.23
0.097"	0.0079"	PENTA 34N247C020 IC908	EH6003606	76.12
0.113"	0.0079"	PENTA 34N287C020 IC908	EH6003607	76.12
0.118"	0"	PENTA 34N300C000 IC908	EH6003608	76.12
0.118"	0.059"	PENTA 34N300C150 IC908	EH6003609	80.65
0.124"	0.0059"	PENTA 34N315C015 IC908	EH6003610	76.12
1/8"	0.0079"	PENTA 34N318C020 IC908	EH6003611	76.12
0.13"	0.0039"	PENTA 34N300C010 IC908	EH6003612	76.12
0.137"	0.0079"	PENTA 34N348C020 IC908	EH6003613	78.38
0.157"	0.0079"	PENTA 34N398C020 IC908	EH6003614	78.38
0.059"	0.0027"	PENTA 34R150C08D IC908	EH6003643	68.80
0.059"	0.0059"	PENTA 34N150C015 IC908	EH6003647	68.80
0.059"	0.0027"	PENTA 34L150C08D IC908	EH6003648	68.80
0.079"	0.0039"	PENTA 34R200PB-6D IC908	EH6003655	68.80
0.079"	0.0039"	PENTA 34L200PB-6D IC908	EH6004424	68.80
0.059"	0.0059"	PENTA 34N150PB015 IC908	EH6004425	68.80
0.079"	0.0079"	PENTA 34N200PB020 IC908	EH6004426	68.80

Cutting Width (CW)	Corner Radius (RE)	ProductName	Order No.	Price
0.118"	0.0079"	PENTA 34N300PB020 IC908	EH6004428	76.12
0.118"	0.0079"	PENTA 34R300PB-6D IC908	EH6004429	76.12
0.118"	0.0079"	PENTA 34L300PB-6D IC908	EH6004430	76.12
0.079"	0.0079"	PENTA 34N200J020 IC908	EH6004619	68.80
0.059"	0.0059"	PENTA 34N150J015 IC908	EH6004699	68.80
0.118"	0.0079"	PENTA 34N300J020 IC908	EH6004700	76.12
0.079"	0.0394"	PENTA 34N200J100 IC908	EH6004761	68.80
0.094"	0.0059"	PENTA 34N239J015 IC908	EH6004762	68.80
0.094"	0.0472"	PENTA 34N239J120 IC908	EH6004763	68.80
0.098"	0.0079"	PENTA 34N250J020 IC908	EH6004764	76.12
0.106"	0.0039"	PENTA 34N270J010 IC908	EH6004765	76.12
0.118"	0"	PENTA 34N300J000 IC908	EH6004766	76.12
0.118"	0.0157"	PENTA 34N300J040 IC908	EH6004767	76.12
0.118"	0.059"	PENTA 34N300J150 IC908	EH6004768	76.12
1/8"	0.0079"	PENTA 34N318J020 IC908	EH6004769	76.12
0.059"	0.0027"	PENTA 34R150J06D IC908	EH6004770	68.80
0.059"	0.0027"	PENTA 34L150J06D IC908	EH6004771	68.80
0.059"	0.0027"	PENTA 34R150J15D IC908	EH6004772	68.80
0.059"	0.0027"	PENTA 34L150J15D IC908	EH6004773	68.80
0.079"	0.0039"	PENTA 34R200J06D IC908	EH6004774	68.80
0.079"	0.0039"	PENTA 34L200J06D IC908	EH6004775	68.80
0.079"	0.0039"	PENTA 34R200J15D IC908	EH6004776	68.80
0.079"	0.0039"	PENTA 34L200J15D IC908	EH6004777	68.80
0.079"	0.0079"	PENTA 24N200C020 IC908	EH6004780	61.49
0.118"	0.0079"	PENTA 24N300C020 IC908	EH6004781	63.14
0.059"	0.0039"	PENTA 24N150C010 IC908	EH6004785	61.49
0.097"	0.0079"	PENTA 24N247C020 IC908	EH6004786	63.14
1/8"	0.0079"	PENTA 24N318C020 IC908	EH6004787	63.14
0.049"	0.0039"	PENTA 24N125J010 IC908	EH6004794	61.49
0.073"	0.0059"	PENTA 24N185J015 IC908	EH6004795	61.49
0.13"	0.0039"	PENTA 24N330J010 IC908	EH6004796	63.14
0.137"	0.0079"	PENTA 24N348J020 IC908	EH6004797	63.14
0.14"	0.0079"	PENTA 24N356J020 IC908	EH6004798	65.82
0.147"	0.0079"	PENTA 24N374J020 IC908	EH6004799	65.82
0.157"	0.0079"	PENTA 24N398J020 IC908	EH6004800	65.82
0.157"	0.0157"	PENTA 24N400J040 IC908	EH6004801	68.50
0.157"	0.0787"	PENTA 24N400J200 IC908	EH6004802	71.17
0.167"	0.0039"	PENTA 24N423J010 IC908	EH6004803	68.50
0.047"	0.0236"	PENTA 24N120J06D IC908	EH6004810	65.30
0.039"	0.0197"	PENTA 24N100J050 IC908	EH6004811	65.30
0.055"	0.0276"	PENTA 24N140J070 IC908	EH6004812	65.30
1/8"	0.0626"	PENTA 24N318J159 IC908	EH6004813	67.26
0.062"	0.0059"	PENTA 24N157C015 IC908	EH6004922	61.49
0.07"	0.0071"	PENTA 24N178C018 IC908	EH6004923	61.49
0.079"	0.0394"	PENTA 24N200C100 IC908	EH6004924	65.30
0.091"	0.0079"	PENTA 24N230C020 IC908	EH6004925	61.49
0.094"	0.0059"	PENTA 24N239C015 IC908	EH6004926	61.49
0.118"	0.0157"	PENTA 24N300C040 IC908	EH6004927	63.14
0.039"	0.0039"	PENTA 24N100NF010RS IC908	EH6080478	63.24
0.039"	0.0039"	PENTA 24N100NF010LS IC908	EH6080479	63.24
0.118"	0.0079"	PENTA 24N300NF020RS IC908	EH6080480	65.41
0.118"	0.0079"	PENTA 24N300NF020LS IC908	EH6080481	65.41
0.062"	0.0311"	PENTA 24N157NF079LS IC908	EH6091555	63.24
0.039"	0.0039"	PENTA 24N100PF010 IC908	EH6093285	64.79
0.059"	0.0079"	PENTA 24N150PF020 IC908	EH6093295	64.79
0.079"	0.0079"	PENTA 24N200PF020 IC908	EH6093315	64.79
0.098"	0.0079"	PENTA 24N250PF020 IC908	EH6093325	66.44
0.118"	0.0079"	PENTA 24N300PF020 IC908	EH6093335	66.44
0.031"	0.0039"	PENTA 24N080NF010LS IC908	EH6094304	63.24
0.059"	0.0027"	PENTA 34R150PB-6D IC908	EH6094458	68.80
0.157"	0.0079"	PENTA 24N400NF020RS IC908	EH6094624	65.41
0.031"	0.0039"	PENTA 24N080NF010RS IC908	EH6094983	63.24
0.062"	0.0079"	PENTA 24N157NF020RS IC908	EH6094993	63.24
0.094"	0.0079"	PENTA 24N239NF020RS IC908	EH6095003	63.24
1/8"	0.0079"	PENTA 24N318NF020RS IC908	EH6095013	65.41
0.189"	0.0079"	PENTA 24N480NF020RS IC908	EH6095023	65.41
0.059"	0.0027"	PENTA 34L150PB-6D IC908	EH6095359	68.80
0.047"	0.0039"	PENTA 24N119NF010RS IC908	EH6095473	63.24
0.079"	0.0079"	PENTA 24N200NF020RS IC908	EH6097584	63.24
0.094"	0.0469"	PENTA 24N239NF119RS IC908	EH6099444	63.24
0.062"	0.0311"	PENTA 24N157NF079RS IC908	EH6099484	63.24
0.094"	0.0469"	PENTA 24N239NF119LS IC908	EH6099494	63.24
1/8"	0.0626"	PENTA 24N318NF159LS IC908	EH6099504	57.47
1/8"	0.0626"	PENTA 24N318NF159RS IC908	EH6099514	65.41
0.047"	0.0039"	PENTA 24N119NF010LS IC908	EH6099524	63.24
0.062"	0.0079"	PENTA 24N157NF020LS IC908	EH6099534	63.24
0.079"	0.0079"	PENTA 24N200NF020LS IC908	EH6099544	63.24
0.094"	0.0079"	PENTA 24N239NF020LS IC908	EH6099554	63.24
1/8"	0.0079"	PENTA 24N318NF020LS IC908	EH6099564	65.41

PENTACUT Face Grooving Inserts



Cutting Width (CW)	Corner Radius (RE)	ProductName	Grade	Order No.	Price
0.094"	0.0059"	PENTA 34F239-0.15-22L IC908	IC908	EH6003627	76.94
0.157"	0.0157"	PENTA 34F400-0.40-22L IC908	IC908	EH6003628	87.65
0.094"	0.0059"	PENTA 34F239-0.15-22R IC908	IC908	EH6003656	76.94
0.097"	0.0079"	PENTA 34F247-0.20-22L IC908	IC908	EH6003657	85.18
0.097"	0.0079"	PENTA 34F247-0.20-22R IC908	IC908	EH6003658	85.18
0.118"	0.0157"	PENTA 34F300-0.40-22L IC908	IC908	EH6003659	85.18
0.118"	0.0157"	PENTA 34F300-0.40-22R IC908	IC908	EH6003660	85.18
0.157"	0.0157"	PENTA 34F400-0.40-22R IC908	IC908	EH6003661	87.65

9063

PENTACUT PCHB R/L... PENTACUT Double-Ended Parting and Grooving Blades

Right hand shown



Right Hand					
Cutting Width Minimum (CWN)	Cutting Width Maximum (CWX)	Overall Length (OAL)	Product-Name	Order No.	Price
0.02"	0.244"	4.331"	PCHBR 32-24L	EH2301674	275.01
0.02"	0.244"	4.331"	PCHBR 26-24L	EH2301686	242.05
0.059"	0.157"	4.331"	PCHBR 26-34L	EH2302300	254.41
0.059"	0.157"	4.331"	PCHBR 32-34L	EH2302301	286.34
0.02"	0.244"	4.331"	PCHBR 26-24R	EH2302306	242.05
0.059"	0.157"	4.331"	PCHBR 26-34R	EH2302307	254.41

Left Hand					
Cutting Width Minimum (CWN)	Cutting Width Maximum (CWX)	Overall Length (OAL)	Product-Name	Order No.	Price
0.02"	0.244"	4.331"	PCHBL 32-24R	EH2301675	275.01
0.02"	0.244"	4.331"	PCHBL 26-24R	EH2301688	242.05
0.059"	0.157"	4.331"	PCHBL 32-34R	EH2302303	286.34

Screw No.: SR16-212-01397Torx Key No.: T 2010/5

9056

PENTACUT PCH R/L... PENTACUT Grooving, Parting and Recessing Holders

Right hand shown



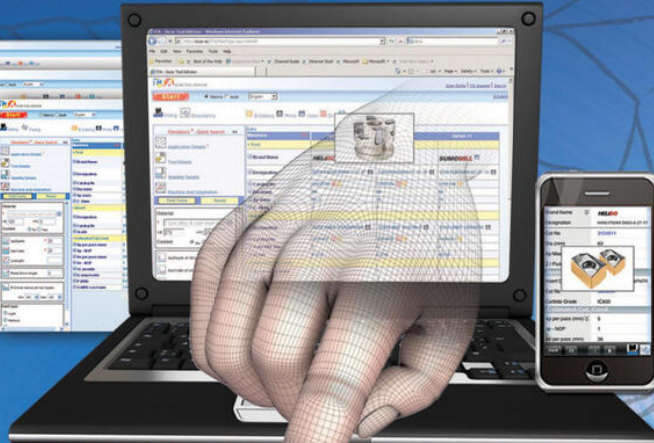
Right Hand							
ProductName	Shank Width (B)	Overall Length (OAL)	Cutting Width Minimum (CWN)	Cutting Width Maximum (CWX)	Shank Height (H)	Order No.	Price
PCHR 12.7-24	1/2"	5"	0.02"	1/8"	1/2"	EH2301625	141.11
PCHR 25.4-34	1"	5-1/2"	0.059"	0.157"	1"	EH2302157	184.37
PCHPR 25.4-34	1"	5-1/2"	0.055"	0.157"	1"	EH2302331	207.03
PCHPR 25.4-24	1"	5-1/2"	0.02"	0.126"	1"	EH2302459	197.76
PCHR 16-D40-3-IQ	0.63"	5.315"	0.118"	0.126"	0.63"	EH2302572	187.46
PCHR 19-D40-3-IQ	3/4"	5.32"	0.118"	0.126"	3/4"	EH2302579	225.57
PCHR 25.4-D40-3-IQ	1"	5.32"	0.118"	0.126"	1"	EH2302581	233.81
PCHR 16-D32-2-IQ	0.63"	4.724"	0.079"	0.094"	0.63"	EH2302674	187.46
PCHR 12.7-D32-2-IQ	1/2"	3.937"	0.079"	0.094"	1/2"	EH2302680	182.31
PCHR 25.4-D32-2-IQ	1"	4.724"	0.079"	0.094"	1"	EH2302682	233.81
PCHR 19-D32-2-IQ	3/4"	4.724"	0.079"	0.094"	3/4"	EH2302684	225.57
PCHRS 12.7-24	1/2"	4.72"	0.031"	0.189"	1/2"	EH2391954	141.11
PCHR 9.5-24	3/8"	5"	0.02"	1/8"	3/8"	EH2393364	141.11
PCHRS 25.4-24	1"	5.32"	0.031"	0.189"	1"	EH2394663	181.28

Left Hand							
ProductName	Shank Width (B)	Overall Length (OAL)	Cutting Width Minimum (CWN)	Cutting Width Maximum (CWX)	Shank Height (H)	Order No.	Price
PCHL 12.7-24	1/2"	5"	0.02"	1/8"	1/2"	EH2301626	141.11
PCHPL 25.4-34	1"	5-1/2"	0.055"	0.157"	1"	EH2302330	207.03
PCHPL 25.4-24	1"	5-1/2"	0.02"	0.126"	1"	EH2302460	197.76
PCHL 16-D40-3-IQ	0.63"	5.315"	0.118"	0.126"	0.63"	EH2302573	187.46
PCHL 19-D40-3-IQ	3/4"	5.32"	0.118"	0.126"	3/4"	EH2302580	225.57
PCHL 25.4-D40-3-IQ	1"	5.32"	0.118"	0.126"	1"	EH2302582	233.81
PCHL 25.4-D32-2-IQ	1"	4.724"	0.079"	0.094"	1"	EH2302681	233.81
PCHLS 25.4-24	1"	5.32"	0.031"	0.189"	1"	EH2398783	181.28

9054



Your Tool Advisor **Genius**



start

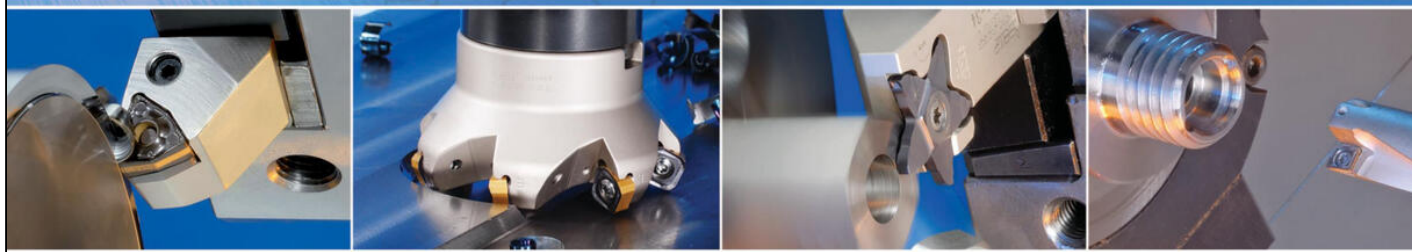
Online Data to Maximize Productivity

Features:

- Quick Search
- 3 Best Tool Options
- Up to 25 Tool Alternatives
- Sorting Options
- Considers Your Machine's Parameters
- Provides Cutting Conditions, Power Requirements and Metal Removal Rates



Let ITA Help You to Select the Most Productive Tool



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865 LINE

PENTACUT
PARTING GROOVING LINE

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ITA recommends the optimal tool based on application parameters and your machine power. 3 tool options, 25 alternatives, cutting data, power consumption, cutting time, metal removal rates, engineering support and more

IMCO 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%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Corner Radius (RE) - 0.015"			Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"		
				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	32.74	20.27	-	-	-	-	-	-
3/16"	3/16"	9/16"	2"	DD4167511	43.96	27.22	-	-	-	-	-	-
1/4"	1/4"	3/4"	2-1/2"	DD4167525	49.57	30.68	DD4167526	49.57	30.68	-	-	-
1/4"	1/4"	1-1/4"	3"	DD4167531	58.48	36.21	DD4167532	58.48	36.21	-	-	-
1/4"	1/4"	1-3/4"	4"	DD4167547	69.64	43.11	DD4167548	69.64	43.11	-	-	-
5/16"	5/16"	13/16"	2-1/2"	DD4167099	61.73	38.21	DD4167100	61.73	38.21	-	-	-
3/8"	3/8"	1-1/4"	3"	DD4167133	93.92	58.14	DD4167134	93.92	58.14	-	-	-
3/8"	3/8"	2"	4"	DD4167165	115.83	71.70	DD4167166	115.83	71.70	-	-	-
1/2"	1/2"	5/8"	2-1/2"	-	-	-	DD4167206	113.79	74.40	-	-	-
1/2"	1/2"	1"	3"	DD4167214	115.35	71.40	DD4167215	115.35	71.40	DD4167216	115.35	71.40
1/2"	1/2"	1-1/4"	3"	DD4167223	119.67	74.07	DD4167224	119.67	74.07	DD4167225	119.67	74.07
5/8"	5/8"	3/4"	3"	-	-	-	DD4167278	181.85	112.57	-	-	-
5/8"	5/8"	1-3/8"	3-1/2"	-	-	-	DD4167288	188.43	116.65	DD4167289	188.43	116.65
5/8"	5/8"	2-1/8"	4"	-	-	-	DD4167298	226.15	139.99	DD4167299	226.15	139.99
3/4"	3/4"	1-5/8"	4"	-	-	-	DD4167358	316.39	195.86	DD4167359	316.39	195.86
3/4"	3/4"	2-3/8"	5"	-	-	-	DD4167368	361.44	223.74	-	-	-
1"	1"	1-3/4"	4"	-	-	-	DD4167408	500.45	309.79	DD4167409	500.45	309.79

29997

IMCO 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
- Optimized geometries, stronger cutting edges, superior balance
- 50° 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	31.00	19.19
1/8"	1/8"	1/4"	1-1/2"	5	DD4069050	30.46	18.85
3/16"	3/16"	5/16"	2"	5	DD4069054	36.03	22.30
3/16"	3/16"	9/16"	2"	5	DD4069056	36.83	22.80
1/4"	1/4"	3/4"	2-1/2"	6	DD4069058	48.34	29.92
1/4"	1/4"	1-1/4"	3"	6	DD4069061	59.01	36.53
3/8"	3/8"	7/8"	2-1/2"	6	DD4069070	76.48	47.34
3/8"	3/8"	1-1/4"	3"	6	DD4069073	95.82	59.32
3/8"	3/8"	2"	4"	6	DD4069076	120.86	74.82
1/2"	1/2"	1"	3"	6	DD4069079	111.21	68.84
1/2"	1/2"	1-1/4"	3"	6	DD4069083	115.39	71.43
1/2"	1/2"	1-5/8"	3-1/2"	6	DD4069087	145.97	90.36
5/8"	5/8"	1-3/8"	3-1/2"	6	DD4069099	200.84	124.33
3/4"	3/4"	1-5/8"	4"	6	DD4069111	321.95	199.30
3/4"	3/4"	2-5/8"	5"	6	DD4069115	397.60	246.14

22460

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

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



SAVE 35%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Corner Radius (RE) - 0.03"			Corner Radius (RE) - 0.06"			Corner Radius (RE) - 0.125"					
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE			
3/16"	3/16"	3/8"	2"	DD4463478	53.59	33.18	-	-	-	-	-	DD4463476	49.44	30.60	
3/16"	3/16"	9/16"	2"	DD4463481	55.13	34.13	-	-	-	-	-	DD4463479	50.97	31.54	
3/16"	3/16"	3/4"	2-1/2"	DD4463484	70.17	43.44	-	-	-	-	-	DD4463482	66.01	40.87	
1/4"	1/4"	1/2"	2"	DD4463487	62.06	38.41	DD4463488	65.97	40.83	-	-	DD4463485	57.86	35.81	
1/4"	1/4"	3/4"	2-1/2"	DD4463491	66.66	41.27	DD4463492	70.57	43.69	-	-	DD4463489	62.45	38.66	
1/4"	1/4"	1"	3"	DD4463495	83.04	51.40	DD4463496	86.95	53.83	-	-	DD4463493	78.84	48.80	
3/8"	3/8"	3/4"	2-1/2"	DD4463499	89.08	55.14	DD4463500	92.94	57.53	-	-	DD4463497	84.72	52.44	
3/8"	3/8"	15/16"	2-1/2"	DD4463504	90.32	55.91	DD4463505	94.22	58.32	-	-	DD4463502	85.95	53.20	
3/8"	3/8"	1-1/8"	3"	DD4463509	100.69	62.33	DD4463510	104.62	64.76	-	-	DD4463507	96.35	59.64	
3/8"	3/8"	1-1/2"	3-1/2"	DD4463514	126.68	78.42	DD4463515	130.59	80.84	-	-	DD4463512	122.33	75.73	
1/2"	1/2"	1"	3"	DD4463517	132.97	82.31	DD4463518	136.88	84.73	DD4463520	145.28	89.93	DD4463516	128.46	79.52
1/2"	1/2"	1-1/4"	3-1/4"	DD4463215	147.53	91.33	DD4463216	151.64	93.87	DD4463218	160.48	99.35	DD4463214	142.78	88.39
1/2"	1/2"	1-1/2"	3-1/2"	DD4463527	148.96	92.02	DD4463528	152.85	94.62	DD4463530	161.27	99.83	DD4463526	144.45	89.42
1/2"	1/2"	1-3/4"	4"	DD4463220	166.79	103.25	-	-	-	DD4463238	179.13	110.89	DD4463219	162.10	100.35
1/2"	1/2"	2"	4"	DD4463537	174.87	108.25	DD4463538	178.79	110.68	DD4463540	187.19	115.88	DD4463536	170.36	105.46
1/2"	1/2"	2-1/4"	4"	DD4463542	192.98	119.46	DD4463543	196.91	121.89	DD4463545	205.31	127.09	DD4463541	188.43	116.65
5/8"	5/8"	1-1/4"	3-1/2"	DD4463547	247.35	153.12	DD4463548	251.81	155.89	DD4463550	261.46	161.85	DD4463546	242.12	149.88
5/8"	5/8"	1-9/16"	4"	DD4463242	272.53	168.71	DD4463244	277.08	171.53	DD4463247	286.85	177.44	DD4463240	267.27	165.45
5/8"	5/8"	1-7/8"	4"	DD4463559	317.26	196.40	DD4463560	320.52	193.65	DD4463562	290.18	179.63	DD4463558	270.78	167.62
5/8"	5/8"	2-3/16"	4-1/2"	DD4463258	359.03	222.25	DD4463262	363.24	224.06	DD4463264	372.40	230.53	DD4463259	311.84	193.04
5/8"	5/8"	2-1/2"	5"	DD4463569	359.03	222.25	DD4463570	363.24	224.06	DD4463571	372.40	230.53	DD4463568	353.94	219.10
3/4"	3/4"	1-1/2"	4"	DD4463573	342.64	212.11	DD4463574	347.04	214.83	DD4463575	356.56	220.72	DD4463572	337.22	208.75
3/4"	3/4"	1-7/8"	4-1/2"	DD4463270	394.88	244.45	DD4463271	399.83	247.51	DD4463275	410.46	254.09	DD4463269	388.18	240.30
3/4"	3/4"	2-1/4"	5"	DD4463586	421.84	261.13	DD4463587	426.37	263.94	DD4463589	436.18	270.02	DD4463585	423.08	261.91
3/4"	3/4"	2-5/8"	5"	DD4463593	438.96	271.73	DD4463594	443.42	274.49	DD4463596	453.18	280.53	DD4463592	433.32	268.24
3/4"	3/4"	3"	6"	DD4463598	509.27	315.26	DD4463599	513.65	317.97	DD4463600	523.13	323.84	DD4463597	503.83	311.90

9795

CUTTING TOOLS

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
40%**

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	46.49	27.89
3/16"	3/16"	2"	7/16"	4	CE60C80109	60.23	36.14
1/4"	1/4"	2-1/2"	3/4"	4	CE60C80110	73.15	43.89
5/16"	5/16"	2-1/2"	13/16"	4	CE60C80111	85.35	51.21
3/8"	3/8"	2-1/2"	7/8"	4	CE60C80112	104.88	62.93
7/16"	7/16"	3"	1"	4	CE60C80113	134.11	80.47
1/2"	1/2"	2-1/2"	5/8"	4	CE60C80114	135.57	81.34
1/2"	1/2"	3"	1"	4	CE60C80115	142.49	85.49
5/8"	5/8"	3-1/2"	1-1/4"	4	CE60C80116	229.57	137.74
3/4"	3/4"	4"	1-1/2"	4	CE60C80117	334.75	200.85
1"	1"	5"	2-1/4"	4	CE60C80118	628.54	377.12

29537

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

• Style #HG-4C-TC



**SAVE
40%**

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	44.03	26.42
5/32"	3/8"	2-3/8"	1/2"	4	CE60C33242	44.53	26.72
3/16"	3/8"	2-3/8"	1/2"	4	CE60C33244	40.13	24.08
3/16"	3/8"	3-1/16"	1-1/4"	4	CE60C33406	43.95	26.37
3/16"	3/8"	3-9/16"	1-3/4"	4	CE60C33457	48.73	29.24
7/32"	3/8"	2-7/16"	5/8"	4	CE60C33246	40.67	24.40
7/32"	3/8"	3-1/16"	1-1/4"	4	CE60C33407	53.77	32.26
1/4"	3/8"	2-7/16"	5/8"	4	CE60C33248	40.67	24.40
1/4"	3/8"	3-1/16"	1-1/4"	4	CE60C33408	52.11	31.27
17/64"	3/8"	2-1/2"	3/4"	4	CE60C33249	45.92	27.55
5/16"	3/8"	2-1/2"	3/4"	4	CE60C33252	41.32	24.79
5/16"	3/8"	3-1/8"	1-3/8"	4	CE60C33410	55.89	33.53
21/64"	3/8"	2-1/2"	3/4"	4	CE60C33253	47.29	28.37
11/32"	3/8"	3-1/4"	1-1/2"	4	CE60C33411	51.16	30.70
23/64"	3/8"	2-1/2"	3/4"	4	CE60C33255	45.92	27.55
3/8"	3/8"	4-1/4"	2-1/2"	4	CE60C33463	68.11	40.87
13/32"	3/8"	2-11/16"	1"	4	CE60C33258	57.81	34.69
27/64"	3/8"	2-11/16"	1"	4	CE60C33259	73.93	44.36
7/16"	3/8"	2-11/16"	1"	4	CE60C33260	62.62	37.57
7/16"	1/2"	3-3/4"	1-3/4"	4	CE60C33414	65.02	39.01
15/32"	1/2"	3-1/4"	1-1/4"	4	CE60C33262	63.96	38.38
1/2"	3/8"	2-11/16"	1"	4	CE60C33264	57.89	34.73
1/2"	1/2"	3-1/4"	1-1/4"	4	CE60C33265	56.24	33.74
1/2"	1/2"	4"	2"	4	CE60C33416	73.45	44.07
17/32"	1/2"	3-3/8"	1-3/8"	4	CE60C33266	102.68	61.61
9/16"	1/2"	3-3/8"	1-3/8"	4	CE60C33267	112.55	67.53
5/8"	1/2"	3-3/8"	1-3/8"	4	CE60C33269	101.58	60.95
5/8"	5/8"	3-3/4"	1-5/8"	4	CE60C33270	99.69	59.81
21/32"	5/8"	3-3/4"	1-5/8"	4	CE60C33271	116.00	69.60
11/16"	5/8"	3-3/4"	1-5/8"	4	CE60C33273	116.00	69.60
3/4"	1/2"	3-5/8"	1-5/8"	4	CE60C33275	122.38	73.43
3/4"	3/4"	3-7/8"	1-5/8"	4	CE60C33277	118.80	71.28
3/4"	3/4"	5-1/4"	3"	4	CE60C33418	153.61	92.17
3/4"	3/4"	6-1/4"	4"	4	CE60C33469	189.84	113.90
7/8"	7/8"	4-1/8"	1-7/8"	4	CE60C33283	152.41	91.45
1"	3/4"	4-1/8"	1-7/8"	4	CE60C33288	178.21	106.93
1"	1"	4-1/2"	2"	4	CE60C33290	178.21	106.93

29532

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

• Style #HGC-4C-TC



**SAVE
40%**

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	48.87	29.32
1/4"	3/8"	3-9/16"	1-3/4"	4	CE60C32718	55.49	33.29
9/32"	3/8"	3-1/8"	1-3/8"	4	CE60C32674	48.00	28.80
5/16"	3/8"	3-1/8"	1-3/8"	4	CE60C32675	51.61	30.97
5/16"	3/8"	3-3/4"	2"	4	CE60C32720	61.82	37.09
3/8"	3/8"	3-1/4"	1-1/2"	4	CE60C32677	48.28	28.97
3/8"	3/8"	4-1/4"	2-1/2"	4	CE60C32722	64.79	38.87
7/16"	3/8"	3-3/4"	1-3/4"	4	CE60C32679	61.87	37.12
1/2"	1/2"	1-1/4"	1-1/4"	6	CE60C32634	57.42	34.45
1/2"	1/2"	3-1/4"	1-1/4"	4	CE60C32633	51.89	31.13
5/8"	5/8"	3-3/4"	1-5/8"	4	CE60C32635	102.52	61.51
5/8"	5/8"	4-5/8"	2-1/2"	4	CE60C32682	139.29	83.57
3/4"	3/4"	3-7/8"	1-5/8"	4	CE60C32637	131.08	78.65
3/4"	3/4"	6-1/4"	4"	4	CE60C32728	211.25	126.75
7/8"	7/8"	5-3/4"	3-1/2"	4	CE60C32685	167.45	100.47
1/2"	1/2"	4"	2"	4	CE60C32681	67.84	40.70
1"	1"	4-1/2"	2"	4	CE60C32639	176.29	105.77
1"	1"	6-1/2"	4"	4	CE60C32687	275.90	165.54

29531

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

• Style #CEM-V-4R-TA



**SAVE
40%**

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	38.78	23.27
1/8"	1/8"	1-1/2"	3/8"	4	CE60C80003	38.14	22.88
1/8"	1/8"	1-1/2"	1/2"	4	CE60C80005	40.01	24.01
3/16"	3/16"	2"	3/8"	4	CE60C80007	40.33	24.20
3/16"	3/16"	2"	7/16"	4	CE60C80009	43.66	26.20
3/16"	3/16"	2-1/2"	3/4"	4	CE60C80011	53.62	32.17
1/4"	1/4"	2"	1/2"	4	CE60C80013	49.32	29.59
1/4"	1/4"	2-1/2"	3/4"	4	CE60C80015	60.43	36.26
1/4"	1/4"	3"	1-1/8"	4	CE60C80018	66.34	39.80
1/4"	1/4"	3"	1-1/4"	4	CE60C80020	72.63	43.58
5/16"	5/16"	2"	1/2"	4	CE60C80021	74.57	44.74
5/16"	5/16"	2-1/2"	13/16"	4	CE60C80023	80.40	48.24
5/16"	5/16"	3"	1-1/4"	4	CE60C80025	89.46	53.68
3/8"	3/8"	2"	5/8"	4	CE60C80027	82.02	49.21
3/8"	3/8"	2-1/2"	7/8"	4	CE60C80029	88.35	53.01
3/8"	3/8"	3"	1-1/8"	4	CE60C80031	110.19	66.11
3/8"	3/8"	4"	2"	4	CE60C80033	130.05	78.03
7/16"	7/16"	2-1/2"	5/8"	4	CE60C80035	113.23	67.94
7/16"	7/16"	3"	1"	4	CE60C80037	123.50	74.10
7/16"	7/16"	4"	2"	4	CE60C80039	136.09	81.65
1/2"	1/2"	2-1/2"	5/8"	4	CE60C80040	130.37	78.22
1/2"	1/2"	3"	1"	4	CE60C80043	137.80	82.68
1/2"	1/2"	3"	1-1/4"	4	CE60C80048	127.39	76.43
1/2"	1/2"	4"	2"	4	CE60C80054	172.34	103.40
5/8"	5/8"	3"	3/4"	4	CE60C80059	201.24	120.74
5/8"	5/8"	3-1/2"	1-1/4"	4	CE60C80061	225.04	135.02
5/8"	5/8"	5"	2-1/4"	4	CE60C80066	306.09	183.65
3/4"	3/4"	3"	1"	4	CE60C80072	302.10	181.26
3/4"	3/4"	4"	1-1/2"	4	CE60C80074	318.89	191.33
3/4"	3/4"	5"	2-1/4"	4	CE60C80079	445.63	267.38
1"	1"	4"	1-1/2"	4	CE60C80084	539.82	323.89
1"	1"	5"	2-1/4"	4	CE60C80089	660.09	396.05
1"	1"	6"	3"	4	CE60C80094	683.04	409.82

29536

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

SAVE 40%

• Style #CEM-AM3-ZN

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	1-1/2"	3/8"	3	CE60C72341	32.07	19.24
3/16"	3/16"	2"	5/16"	3	CE60C72342	38.37	23.02
3/16"	3/16"	2"	9/16"	3	CE60C72343	42.07	25.24
1/4"	1/4"	2-1/2"	3/4"	3	CE60C72345	53.93	32.36
5/16"	5/16"	3-1/2"	1-1/4"	3	CE60C72349	86.28	51.77
3/8"	3/8"	2"	1/2"	3	CE60C72351	59.97	35.98
3/8"	3/8"	2-1/2"	1"	3	CE60C72352	75.66	45.40
3/8"	3/8"	3-1/2"	1-1/2"	3	CE60C72353	98.88	59.33
1/2"	1/2"	2-1/2"	5/8"	3	CE60C72358	108.74	65.24
1/2"	1/2"	3"	1-1/4"	3	CE60C72359	133.88	80.33
1/2"	1/2"	4"	2"	3	CE60C72360	147.70	88.62
5/8"	5/8"	5"	2-1/2"	3	CE60C72364	301.84	181.10
3/4"	3/4"	3"	1"	3	CE60C72366	276.66	166.00
3/4"	3/4"	4"	5/8"	3	CE60C72367	325.72	195.43

29864

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

SAVE 40%

• Style #HGC-2

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	2-5/8"	3/4"	2	CE60C75127	26.38	15.83
3/8"	3/8"	2-3/4"	1"	2	CE60C75128	35.31	21.19
3/8"	3/8"	3-1/4"	1-1/2"	2	CE60C75129	41.32	24.79
1/2"	1/2"	2-11/16"	3/16"	2	CE60C75130	35.94	21.56
1/2"	1/2"	3-1/2"	1-1/2"	2	CE60C75131	43.96	26.38
1/2"	1/2"	4"	2"	2	CE60C75132	50.11	30.07
9/16"	9/16"	3-3/8"	1-1/8"	2	CE60C75133	71.89	43.13
5/8"	5/8"	3-3/8"	1-1/8"	2	CE60C75134	69.26	41.56
3/4"	3/4"	3-5/8"	1-5/16"	2	CE60C75135	76.60	45.96
7/8"	7/8"	4"	1-1/2"	2	CE60C75158	112.58	67.55
7/8"	7/8"	4-1/8"	1-1/2"	2	CE60C75159	114.51	68.71
1"	1"	4"	1-1/2"	2	CE60C75160	133.77	80.26
1"	1"	4-1/8"	1-1/2"	2	CE60C75161	129.15	77.49
1"	1"	5-1/2"	3"	2	CE60C75163	174.15	104.49

29862

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

SAVE 40%

• Style #HGC-4C

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/4"	3/8"	3-9/16"	1-3/4"	4	CE60C32691	48.49	29.09
9/32"	3/8"	3-1/8"	1-3/8"	4	CE60C32647	41.89	25.13
5/16"	3/8"	3-1/8"	1-3/8"	4	CE60C32648	43.25	25.95
5/16"	3/8"	3-3/4"	2"	4	CE60C32693	53.03	31.82
3/8"	3/8"	3-1/4"	1-1/2"	4	CE60C42857	40.96	24.58
3/8"	3/8"	4-1/4"	2-1/2"	4	CE60C42913	55.20	33.12
7/16"	3/8"	3-3/4"	1-3/4"	4	CE60C32651	53.03	31.82
1/2"	1/2"	4"	2"	4	CE60C42861	57.07	34.24
5/8"	5/8"	3-3/4"	1-5/8"	4	CE60C42703	87.64	52.58
5/8"	5/8"	4-5/8"	2-1/2"	4	CE60C42864	132.14	79.28
3/4"	3/4"	3-7/8"	1-5/8"	4	CE60C42707	111.46	66.88
3/4"	3/4"	6-1/4"	4"	4	CE60C42924	180.03	108.02
7/8"	7/8"	5-3/4"	3-1/2"	4	CE60C32653	140.84	84.50
1"	1"	4-1/2"	2"	4	CE60C42715	150.81	90.49
1"	1"	6-1/2"	4"	4	CE60C42876	246.04	147.62
1-1/2"	1-1/4"	10-1/2"	8"	4	CE60C32698	714.71	428.83
1-1/2"	1-1/4"	10-1/2"	8"	6	CE60C32699	748.73	449.24

29540

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

SAVE 40%

• Style #HGC-2-TN

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
1/8"	1/8"	2-5/8"	3/4"	2	CE60C75137	29.53	17.72
3/8"	3/8"	2-3/4"	1"	2	CE60C75138	39.55	23.73
3/8"	3/8"	3-1/4"	1-1/2"	2	CE60C75139	46.29	27.77
1/2"	1/2"	2-11/16"	3/16"	2	CE60C75140	40.26	24.16
1/2"	1/2"	3-1/2"	1-1/2"	2	CE60C75141	49.21	29.53
1/2"	1/2"	4"	2"	2	CE60C75142	56.12	33.67
9/16"	9/16"	3-3/8"	1-1/8"	2	CE60C75143	80.50	48.30
5/8"	5/8"	3-3/8"	1-1/8"	2	CE60C75144	77.58	46.55
3/4"	3/4"	3-5/8"	1-5/16"	2	CE60C75145	85.78	51.47
7/8"	7/8"	4"	1-1/2"	2	CE60C75167	126.08	75.65
7/8"	7/8"	4-1/8"	1-1/2"	2	CE60C75168	128.26	76.96
1"	1"	4"	1-1/2"	2	CE60C75169	149.84	89.90
1"	1"	4-1/8"	1-1/2"	2	CE60C75170	144.64	86.78
1"	1"	5-1/2"	3"	2	CE60C75172	195.06	117.04

29863

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

SAVE 40%

• Style #CEM-V2-5R-TA

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Order No.	Regular Price	SALE
3/16"	3/16"	2"	3/8"	5	CE60C80525	34.10	20.46
3/16"	3/16"	2"	7/16"	5	CE60C80527	48.05	28.83
3/16"	3/16"	2-1/2"	3/4"	5	CE60C80529	50.38	30.23
1/4"	1/4"	2"	1/2"	5	CE60C80531	46.74	28.04
1/4"	1/4"	2-1/2"	3/4"	5	CE60C80533	63.52	38.11
1/4"	1/4"	3"	1-1/4"	5	CE60C80537	79.27	47.56
5/16"	5/16"	2"	1/2"	5	CE60C80538	70.93	42.56
5/16"	5/16"	2-1/2"	13/16"	5	CE60C80540	71.34	42.80
5/16"	5/16"	3"	1-1/4"	5	CE60C80542	80.54	48.32
3/8"	3/8"	2"	5/8"	5	CE60C80545	78.18	46.91
3/8"	3/8"	2-1/2"	7/8"	5	CE60C80547	82.25	49.35
3/8"	3/8"	3"	1-1/8"	5	CE60C80549	111.30	66.78
3/8"	3/8"	4"	2"	5	CE60C80551	114.17	68.50
7/16"	7/16"	2-1/2"	5/8"	5	CE60C80553	105.41	63.25
7/16"	7/16"	3"	1"	5	CE60C80555	118.71	71.23
7/16"	7/16"	4"	2"	5	CE60C80557	139.00	83.40
1/2"	1/2"	2-1/2"	5/8"	5	CE60C80558	106.63	63.98
1/2"	1/2"	3"	1"	5	CE60C80560	116.30	69.78
1/2"	1/2"	3"	1-1/4"	5	CE60C80565	132.22	79.33
1/2"	1/2"	4"	2"	5	CE60C80571	168.17	100.90
5/8"	5/8"	3"	3/4"	5	CE60C80576	199.84	119.90
5/8"	5/8"	3-1/2"	1-1/4"	5	CE60C80578	212.88	127.73
5/8"	5/8"	5"	2-1/4"	5	CE60C80583	309.96	185.98
3/4"	3/4"	3"	1"	5	CE60C80588	254.77	152.86
3/4"	3/4"	4"	1-1/2"	5	CE60C80590	309.21	185.53
3/4"	3/4"	5"	2-1/4"	5	CE60C80595	396.81	238.09
1"	1"	4"	1-1/2"	5	CE60C80600	499.15	299.49
1"	1"	5"	2-1/4"	5	CE60C80605	601.21	360.73
1"	1"	6"	3"	5	CE60C80610	790.64	474.38

29538

CUTTING TOOLS

Tuffcut® 4 Flute Solid Carbide End Mills

Series 158 - Neck Relief - Altima® Coated

- Designed for drilling soft metals as well as glass reinforced circuit boards, phenolic-epoxies and other abrasive materials



SAVE 40%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Corner Radius (RE)	Neck Length (LN)	Order No.	Regular Price	SALE
2 mm	6 mm	3 mm	63 mm	0.1mm	6	DD1699150	57.54	34.52
2 mm	6 mm	3 mm	63 mm	0.2mm	6	DD1699155	57.54	34.52
2 mm	6 mm	3 mm	63 mm	0.1mm	8	DD1699151	57.54	34.52
2 mm	6 mm	3 mm	63 mm	0.2mm	8	DD1699156	57.54	34.52
2 mm	6 mm	3 mm	63 mm	0.5mm	8	DD1699160	57.54	34.52
2 mm	6 mm	3 mm	63 mm	0.1mm	12	DD1699152	57.54	34.52
2 mm	6 mm	3 mm	63 mm	0.2mm	12	DD1699157	57.54	34.52
2 mm	6 mm	3 mm	63 mm	0.1mm	16	DD1699153	57.54	34.52
2 mm	6 mm	3 mm	63 mm	0.2mm	16	DD1699158	57.54	34.52
2 mm	6 mm	3 mm	75 mm	0.1mm	20	DD1699154	57.54	34.52
2 mm	6 mm	3 mm	75 mm	0.2mm	20	DD1699159	57.54	34.52
3 mm	6 mm	5 mm	63 mm	0.2mm	10	DD1699161	57.54	34.52
3 mm	6 mm	5 mm	63 mm	0.5mm	10	DD1699167	57.54	34.52
3 mm	6 mm	5 mm	63 mm	0.8mm	10	DD1699173	57.54	34.52
3 mm	6 mm	5 mm	63 mm	0.2mm	12	DD1699162	57.54	34.52
3 mm	6 mm	5 mm	63 mm	0.5mm	12	DD1699168	57.54	34.52
3 mm	6 mm	5 mm	63 mm	0.2mm	16	DD1699163	57.54	34.52
3 mm	6 mm	5 mm	63 mm	0.5mm	16	DD1699169	57.54	34.52
3 mm	6 mm	5 mm	75 mm	0.2mm	20	DD1699164	57.54	34.52
3 mm	6 mm	5 mm	75 mm	0.5mm	20	DD1699170	57.54	34.52
3 mm	6 mm	5 mm	75 mm	0.2mm	25	DD1699165	57.54	34.52
3 mm	6 mm	5 mm	75 mm	0.5mm	25	DD1699171	57.54	34.52
3 mm	6 mm	5 mm	75 mm	0.2mm	30	DD1699166	57.54	34.52
3 mm	6 mm	5 mm	75 mm	0.5mm	30	DD1699172	57.54	34.52
4 mm	6 mm	6 mm	63 mm	0.2mm	10	DD1699174	57.54	34.52
4 mm	6 mm	6 mm	63 mm	0.5mm	10	DD1699180	57.54	34.52
4 mm	6 mm	6 mm	63 mm	0.2mm	12	DD1699175	57.54	34.52
4 mm	6 mm	6 mm	63 mm	0.5mm	12	DD1699181	57.54	34.52
4 mm	6 mm	6 mm	63 mm	1 mm	12	DD1699186	57.54	34.52
4 mm	6 mm	6 mm	63 mm	0.2mm	16	DD1699176	57.54	34.52
4 mm	6 mm	6 mm	63 mm	0.5mm	16	DD1699182	57.54	34.52
4 mm	6 mm	6 mm	75 mm	0.2mm	20	DD1699177	57.54	34.52
4 mm	6 mm	6 mm	75 mm	0.5mm	20	DD1699183	57.54	34.52
4 mm	6 mm	6 mm	75 mm	0.2mm	25	DD1699178	57.54	34.52
4 mm	6 mm	6 mm	75 mm	0.5mm	25	DD1699184	57.54	34.52
4 mm	6 mm	6 mm	75 mm	0.2mm	30	DD1699179	57.54	34.52
4 mm	6 mm	6 mm	75 mm	0.5mm	30	DD1699185	57.54	34.52
6 mm	6 mm	9 mm	75 mm	0.3mm	20	DD1699187	62.15	37.29
6 mm	6 mm	9 mm	75 mm	0.5mm	20	DD1699188	62.15	37.29
6 mm	6 mm	9 mm	75 mm	1 mm	20	DD1699189	62.15	37.29
6 mm	6 mm	9 mm	75 mm	1.5 mm	20	DD1699190	62.15	37.29
6 mm	6 mm	9 mm	100 mm	0.3mm	30	DD1699191	62.57	37.54
6 mm	6 mm	9 mm	100 mm	0.5mm	30	DD1699192	62.57	37.54
6 mm	6 mm	9 mm	100 mm	1 mm	30	DD1699193	62.57	37.54
6 mm	6 mm	9 mm	100 mm	1.5 mm	30	DD1699194	62.57	37.54
8 mm	8 mm	12 mm	75 mm	0.3mm	30	DD1699195	75.03	45.02
8 mm	8 mm	12 mm	75 mm	0.5mm	30	DD1699196	75.03	45.02
8 mm	8 mm	12 mm	75 mm	1 mm	30	DD1699197	75.03	45.02
8 mm	8 mm	12 mm	75 mm	2 mm	30	DD1699198	75.03	45.02
8 mm	8 mm	12 mm	100 mm	0.3mm	40	DD1699199	81.69	49.01
8 mm	8 mm	12 mm	100 mm	0.5mm	40	DD1699200	81.69	49.01
8 mm	8 mm	12 mm	100 mm	1 mm	40	DD1699201	81.69	49.01
8 mm	8 mm	12 mm	100 mm	2 mm	40	DD1699202	81.69	49.01
8 mm	8 mm	12 mm	120 mm	0.3mm	50	DD1699203	105.38	63.23
8 mm	8 mm	12 mm	120 mm	0.5mm	50	DD1699204	105.38	63.23
8 mm	8 mm	12 mm	120 mm	1 mm	50	DD1699205	105.38	63.23
8 mm	8 mm	12 mm	120 mm	2 mm	50	DD1699206	105.38	63.23
10 mm	10 mm	15 mm	75 mm	0.3mm	30	DD1699207	84.64	50.78
10 mm	10 mm	15 mm	75 mm	0.5mm	30	DD1699208	84.64	50.78
10 mm	10 mm	15 mm	75 mm	1 mm	30	DD1699209	84.64	50.78
10 mm	10 mm	15 mm	75 mm	2 mm	30	DD1699210	84.64	50.78
10 mm	10 mm	15 mm	100 mm	0.3mm	50	DD1699211	105.64	63.38
10 mm	10 mm	15 mm	100 mm	0.5mm	50	DD1699212	105.64	63.38
10 mm	10 mm	15 mm	100 mm	1 mm	50	DD1699213	105.64	63.38
10 mm	10 mm	15 mm	100 mm	2 mm	50	DD1699214	105.64	63.38
10 mm	10 mm	15 mm	130 mm	0.3mm	60	DD1699215	144.14	86.48
10 mm	10 mm	15 mm	130 mm	0.5mm	60	DD1699216	144.14	86.48
10 mm	10 mm	15 mm	130 mm	1 mm	60	DD1699217	144.14	86.48
10 mm	10 mm	15 mm	130 mm	2 mm	60	DD1699218	144.14	86.48
12 mm	12 mm	18 mm	100 mm	0.3mm	40	DD1699219	140.93	84.56
12 mm	12 mm	18 mm	100 mm	1 mm	40	DD1699220	140.93	84.56
12 mm	12 mm	18 mm	100 mm	2 mm	40	DD1699221	140.93	84.56
12 mm	12 mm	18 mm	140 mm	0.3mm	60	DD1699222	189.45	113.67
12 mm	12 mm	18 mm	140 mm	1 mm	60	DD1699223	189.45	113.67
12 mm	12 mm	18 mm	140 mm	2 mm	60	DD1699224	189.45	113.67
16 mm	16 mm	24 mm	100 mm	0.3mm	50	DD1699225	188.96	113.38
16 mm	16 mm	24 mm	100 mm	1 mm	50	DD1699226	188.96	113.38
16 mm	16 mm	24 mm	100 mm	3 mm	50	DD1699227	188.96	113.38
16 mm	16 mm	24 mm	150 mm	0.3mm	70	DD1699228	252.40	151.44
16 mm	16 mm	24 mm	150 mm	1 mm	70	DD1699229	252.40	151.44
16 mm	16 mm	24 mm	150 mm	3 mm	70	DD1699230	252.40	151.44

29251

WHITNEY TOOL Long Shank T-Slot Milling Cutters

- High speed steel or M42 cobalt
- Right hand cut
- Straight shank

SAVE 30%



Cutting Diameter (DC)	Cutting Width (CW)	Con-connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	HSS			HSSCo		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1"	1/8"	5/8"	4-15/16"	DS9610294	146.79	102.75	DS9620294	189.50	132.65
1-1/2"	1/8"	1"	5-5/16"	DS9610308	226.93	158.85	DS9620308	291.50	204.05
1-1/4"	1/8"	3/4"	5-1/8"	DS9610301	195.56	136.89	DS9620301	237.05	165.94
1"	3/16"	5/8"	4-15/16"	DS9610295	146.79	102.75	DS9620295	189.50	132.65
1-1/2"	3/16"	1"	5-5/16"	DS9610309	226.93	158.85	DS9620309	291.50	204.05
1-1/4"	3/16"	3/4"	5-1/8"	DS9610302	195.56	136.89	DS9620302	237.05	165.94
2"	3/16"	1"	5-11/16"	DS9610315	383.78	268.65	DS9620315	451.96	316.37
1"	1/4"	5/8"	4-15/16"	DS9610296	146.79	102.75	DS9620296	189.50	132.65
1-1/2"	1/4"	1"	5-5/16"	DS9610310	226.93	158.85	DS9620310	291.50	204.05
1-1/4"	1/4"	3/4"	5-1/8"	DS9610303	195.56	136.89	DS9620303	237.05	165.94
2"	1/4"	1"	5-11/16"	DS9610316	383.78	268.65	DS9620316	451.96	316.37
1"	5/16"	5/8"	4-15/16"	DS9610297	146.79	102.75	DS9620297	189.50	132.65
1-1/2"	5/16"	1"	5-5/16"	DS9610311	226.93	158.85	DS9620311	291.50	204.05
1-1/4"	5/16"	3/4"	5-1/8"	DS9610304	195.56	136.89	DS9620304	237.05	165.94
2"	5/16"	1"	5-11/16"	DS9610317	383.78	268.65	DS9620317	451.96	316.37
1"	3/8"	5/8"	4-15/16"	DS9610298	146.79	102.75	DS9620298	189.50	132.65
1-1/2"	3/8"	1"	5-5/16"	DS9610312	226.93	158.85	DS9620312	291.50	204.05
1-1/4"	3/8"	3/4"	5-1/8"	DS9610305	195.56	136.89	DS9620305	237.05	165.94
2"	3/8"	1"	5-11/16"	DS9610318	383.78	268.65	DS9620318	451.96	316.37
1"	1/2"	5/8"	4-15/16"	DS9610299	146.79	102.75	DS9620299	189.50	132.65
1-1/2"	1/2"	1"	5-5/16"	DS9610313	226.93	158.85	DS9620313	291.50	204.05
1-1/4"	1/2"	3/4"	5-1/8"	DS9610306	195.56	136.89	DS9620306	237.05	165.94
2"	1/2"	1"	5-11/16"	DS9610319	383.78	268.65	DS9620319	451.96	316.37
1"	5/8"	5/8"	4-15/16"	DS9610300	146.79	102.75	DS9620300	189.50	132.65
1-1/2"	5/8"	1"	5-5/16"	DS9610314	226.93	158.85	DS9620314	291.50	204.05
1-1/4"	5/8"	3/4"	5-1/8"	DS9610307	195.56	136.89	DS9620307	237.05	165.94
2"	5/8"	1"	5-11/16"	DS9610320	383.78	268.65	DS9620320	451.96	316.37
2"	3/4"	1"	5-11/16"	DS9610321	383.78	268.65	DS9620321	451.96	316.37

10667

PRO-CUT Corner Rounding End Mill Sets

High Speed Steel & Cobalt - 8 Pc. Sets

UP TO 45% OFF



Diameter Range	Cutting Edge Material	Order No.	Regular Price	SALE
1/16R x 3/8" 3/32R x 3/8" 1/8"R x 1/2" 5/32R x 1/2" 3/16"R x 1/2" 1/4"R x 1/2" 5/16"R x 1/2" 3/8"R x 1/2"	HSS	DK50RC	275.76	151.67
3/16"R x 3/4" 1/4"R x 3/4" 5/16"R x 3/4" 3/8"R x 3/4" 7/16R x 3/4" 1/2"R x 3/4" 5/8"R x 3/4" 3/4"R x 3/4"	HSS	DK50RC34	549.91	302.45
1/16R x 3/8" 3/32R x 3/8" 1/8"R x 1/2" 5/32R x 1/2" 3/16"R x 1/2" 1/4"R x 1/2" 5/16"R x 1/2" 3/8"R x 1/2"	HSSCo	DK55RCCO	320.73	208.47

† Has 3/4" shanks

10300

TuffCut® XT 4 Flute Carbide Ball Nose End Mills

Variable Helix - Altima® Blaze Coated

- Variable 35°/38° helix
- Center cutting
- Higher feeds over similar end mills
- Reduced vibration harmonics
- Improved part finishes
- Maintains cutting edge strength & sharpness for improved tool life
- Slotting at 1X diameter deep
- State-of-the-art ALTIMA® Blaze coating for superior tool life and higher metal removal rates
- Designed for specific applications in steels, stainless steels, special alloys, cast iron, titanium inconel, and high temp alloys
- M.A. Ford List #279



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/2"	1/2"	1-1/4"	3"	DD1627932	131.98	79.19
1/2"	1/2"	5/8"	2-1/2"	DD1627930	123.98	74.39
1/4"	1/4"	3/4"	2"	DD1627920	49.02	29.41
1/4"	1/4"	3/8"	2"	DD1627918	45.93	27.56
1/8"	1/8"	1/4"	1-1/2"	DD1627910	27.20	16.32
1/8"	1/8"	3/8"	1-1/2"	DD1627912	28.86	17.32
3/16"	3/16"	3/8"	2"	DD1627914	37.66	22.60
3/16"	3/16"	5/8"	2"	DD1627916	40.09	24.05
3/4"	3/4"	1-1/2"	4"	DD1627936	366.24	219.74
3/8"	3/8"	1/2"	2"	DD1627926	75.73	45.44
3/8"	3/8"	7/8"	2"	DD1627928	80.66	48.40
5/16"	5/16"	1/2"	2"	DD1627922	62.98	37.79
5/16"	5/16"	13/16"	2"	DD1627924	67.15	40.29
5/8"	5/8"	1-1/4"	3-1/2"	DD1627934	249.20	149.52
7/16"	1"	7/16"	2-1/2"	DD1627931	103.88	62.33
7/16"	1/2"	7/16"	2-1/2"	DD1627929	97.74	58.64

9944

TuffCut® XR 4 Flute ALTIMA® Coated HP Ball Nose End Mills

Fractional Sizes

- Center cutting
- 35°/38° Helix
- M.A. Ford Series #179



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
1/16"	1/8"	1/8"	1-1/2"	DD1618284	35.26	21.16
5/64"	1/8"	5/32"	1-1/2"	DD1618286	32.20	19.32
3/32"	1/8"	3/16"	1-1/2"	DD1618288	32.20	19.32
1/8"	1/8"	1/4"	1-1/2"	DD1618034	25.89	15.53
1/8"	1/8"	3/8"	1-1/2"	DD1618035	27.50	16.50
3/16"	3/16"	3/8"	2"	DD1618038	35.85	21.51
3/16"	3/16"	5/8"	2"	DD1618039	38.16	22.90
1/4"	1/4"	3/8"	2"	DD1518042	39.50	23.70
1/4"	1/4"	3/4"	2-1/2"	DD1618043	46.69	28.01
1/4"	1/4"	1/2"	4"	DD1618063	75.08	45.05
5/16"	5/16"	1/2"	2"	DD1618045	59.99	35.99
5/16"	5/16"	13/16"	2-1/2"	DD1618046	63.95	38.37
3/8"	3/8"	1/2"	2"	DD1618048	72.14	43.28
3/8"	3/8"	7/8"	2-1/2"	DD1618049	76.82	46.09
3/8"	3/8"	9/16"	4"	DD1618064	102.44	61.46
1/2"	1/2"	5/8"	2-1/2"	DD1618054	118.08	70.85
1/2"	1/2"	1-1/4"	3"	DD1618055	125.68	75.41
1/2"	1/2"	5/8"	5"	DD1618065	157.88	94.73
5/8"	5/8"	1-1/4"	3-1/2"	DD1618058	237.33	142.40
5/8"	5/8"	3/4"	6"	DD1618066	281.93	169.16
3/4"	3/4"	1"	6"	DD1618067	406.04	243.62
3/4"	3/4"	1-1/2"	4"	DD1618060	348.81	209.29
1"	1"	1-1/2"	4"	DD1618062	531.26	318.76
1"	1"	1-1/4"	6"	DD1618068	637.20	382.32

9932

WIDIA® High Performance Solid Carbide Vari-Mill II™ End Mills

5 Flute - ALTiN Coated

- Unequal flute spacing
- 38° Helix
- Center cutting
- Single tool for both roughing and finishing operations requiring fewer setups
- Slotting up to 1 x D



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Corner Radius (RE)	Shank Type	Order No.	Regular Price	SALE
3/16"	3/16"	5/8"	2-1/4"	None	Straight Cylindrical	WK405577053	33.16	21.81
3/16"	3/16"	5/8"	2-1/4"	0.015"	Straight Cylindrical	WK405577051	33.65	23.56
3/16"	3/16"	5/8"	2-1/4"	0.03"	Straight Cylindrical	WK405577052	33.65	23.56
1/4"	1/4"	3/4"	2-1/2"	None	Straight Cylindrical	WK405577057	41.11	28.78
1/4"	1/4"	3/4"	2-1/2"	0.015"	Straight Cylindrical	WK405577054	44.38	31.07
1/4"	1/4"	3/4"	2-1/2"	0.03"	Straight Cylindrical	WK405577055	44.38	31.07
1/4"	1/4"	3/4"	2-1/2"	0.06"	Straight Cylindrical	WK405577056	44.38	31.07
5/16"	5/16"	3/4"	2-1/2"	None	Straight Cylindrical	WK405577101	52.19	36.53
5/16"	5/16"	3/4"	2-1/2"	0.015"	Straight Cylindrical	WK405577058	56.37	39.46
5/16"	5/16"	3/4"	2-1/2"	0.03"	Straight Cylindrical	WK405577059	56.37	39.46
5/16"	5/16"	3/4"	2-1/2"	0.06"	Straight Cylindrical	WK405577100	56.37	39.46
3/8"	3/8"	7/8"	2-1/2"	None	Straight Cylindrical	WK405577105	66.01	46.21
3/8"	3/8"	7/8"	2-1/2"	0.015"	Straight Cylindrical	WK405577102	71.30	49.91
3/8"	3/8"	7/8"	2-1/2"	0.03"	Straight Cylindrical	WK405577103	71.30	49.91
3/8"	3/8"	7/8"	2-1/2"	0.06"	Straight Cylindrical	WK405577104	71.30	49.91
1/2"	1/2"	1-1/4"	3"	None	Straight Cylindrical	WK405577116	111.78	78.25
1/2"	1/2"	1-1/4"	3"	None	Weldon Cylindrical	WK405577117	114.01	79.81
1/2"	1/2"	1-1/4"	3"	0.015"	Straight Cylindrical	WK405577106	117.36	82.15
1/2"	1/2"	1-1/4"	3"	0.015"	Weldon Cylindrical	WK405577108	119.71	83.80
1/2"	1/2"	1-1/4"	3"	0.03"	Straight Cylindrical	WK405577108	117.36	82.15
1/2"	1/2"	1-1/4"	3"	0.03"	Weldon Cylindrical	WK405577109	119.71	83.80
1/2"	1/2"	1-1/4"	3"	0.06"	Straight Cylindrical	WK405577110	117.36	82.15
1/2"	1/2"	1-1/4"	3"	0.06"	Weldon Cylindrical	WK405577111	119.71	83.80
1/2"	1/2"	1-1/4"	3"	0.09"	Straight Cylindrical	WK405577112	117.36	82.15
1/2"	1/2"	1-1/4"	3"	0.09"	Weldon Cylindrical	WK405577113	119.71	83.80
1/2"	1/2"	1-1/4"	3"	0.12"	Straight Cylindrical	WK405577114	117.36	82.15
5/8"	5/8"	1-1/4"	3-1/2"	None	Straight Cylindrical	WK405577134	203.60	142.52
5/8"	5/8"	1-1/4"	3-1/2"	None	Weldon Cylindrical	WK405577135	207.66	145.36
5/8"	5/8"	1-1/4"	3-1/2"	0.03"	Straight Cylindrical	WK405577118	213.78	149.65
5/8"	5/8"	1-1/4"	3-1/2"	0.03"	Weldon Cylindrical	WK405577119	218.04	152.63
5/8"	5/8"	1-1/4"	3-1/2"	0.06"	Weldon Cylindrical	WK405577131	218.04	152.63
3/4"	3/4"	1-1/2"	4"	None	Straight Cylindrical	WK405577164	285.21	199.65
3/4"	3/4"	1-1/2"	4"	None	Weldon Cylindrical	WK405577165	290.91	203.64
3/4"	3/4"	1-1/2"	4"	0.03"	Straight Cylindrical	WK405577136	299.47	209.63
3/4"	3/4"	1-1/2"	4"	0.03"	Weldon Cylindrical	WK405577137	305.47	213.83
3/4"	3/4"	1-1/2"	4"	0.06"	Straight Cylindrical	WK405577138	299.47	209.63
3/4"	3/4"	1-1/2"	4"	0.06"	Weldon Cylindrical	WK405577139	305.47	213.83
3/4"	3/4"	1-1/2"	4"	0.09"	Weldon Cylindrical	WK405577161	305.47	213.83
3/4"	3/4"	1-1/2"	4"	0.12"	Straight Cylindrical	WK405577162	299.47	209.63
3/4"	3/4"	1-1/2"	4"	0.12"	Weldon Cylindrical	WK405577163	305.47	213.83
1"	1"	1-3/4"	4-1/2"	None	Weldon Cylindrical	WK405577185	469.84	328.89
1"	1"	1-3/4"	4-1/2"	0.03"	Straight Cylindrical	WK405577166	483.65	338.56
1"	1"	1-3/4"	4-1/2"	0.03"	Weldon Cylindrical	WK405577167	493.33	345.33
1"	1"	1-3/4"	4-1/2"	0.12"	Weldon Cylindrical	WK405577183	493.33	345.33

10674

WIDIA® High-Performance

Solid Carbide End Mills - Roughing



Series 4MOR 4M4R - Inch

- Center cutting.
- Flat shallow profile.
- Standard items listed. Additional styles and coatings made-to-order.



Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Overall Length (OAL)	Depth of Cut Maximum (APMX)	Flute Count (NOF)	Corner Radius (RE)	Order No.	Regular Price	SALE
1/4"	1/4"	2"	3/8"	3	0.03"	WK405577384	79.46	55.62
1/4"	1/4"	2-1/2"	3/4"	4	0.03"	WK405577315	80.12	56.08
3/8"	3/8"	2-1/2"	7/8"	4	0.03"	WK405577316	108.91	76.24
3/8"	3/8"	2"	1/2"	4	0.03"	WK405577385	104.98	73.49
1/2"	1/2"	3"	1-1/4"	4	0.04"	WK405577317	163.88	114.72
3/4"	3/4"	3-1/2"	7/8"	4	0.05"	WK405577388	260.58	182.41
3/4"	3/4"	4"	1-1/2"	4	0.05"	WK405577380	274.30	192.01
3/4"	3/4"	4"	1-1/2"	6	0.05"	WK405577381	366.15	256.31
1"	1"	4"	1-1/2"	4	0.05"	WK405577382	499.64	349.75
1"	1"	4"	1-1/2"	6	0.05"	WK405577383	540.66	378.46

29411

CUTTING TOOLS

HSS M 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	15.21	9.89
5/32"	3/8"	7/16"	2-5/16"	MT2343691	18.92	12.30
3/16"	3/8"	7/16"	2-5/16"	MT2343652	17.92	11.65
13/64"	3/8"	7/16"	2-5/16"	MT2343706	17.40	11.31
7/32"	3/8"	1/2"	2-3/8"	MT2343692	16.07	10.45
15/64"	3/8"	1/2"	2-5/16"	MT2343707	20.96	13.62
1/4"	3/8"	1/2"	2-5/16"	MT2343653	15.73	10.22
17/64"	3/8"	9/16"	2-5/16"	MT2343708	16.62	10.80
9/32"	3/8"	9/16"	2-3/8"	MT2343693	15.60	10.14
5/16"	3/8"	9/16"	2-5/16"	MT2343654	18.35	11.93
21/64"	3/8"	9/16"	2-5/16"	MT2343710	17.40	11.31
11/32"	3/8"	9/16"	2-5/16"	MT2343694	17.63	11.46
11/64"	3/8"	7/16"	2-3/8"	MT2343705	17.48	11.36
3/8"	3/8"	9/16"	2-5/16"	MT2343655	14.96	9.72
23/64"	3/8"	9/16"	2-1/2"	MT2343711	16.62	10.80
25/64"	3/8"	13/16"	2-1/2"	MT2343712	25.68	16.69
13/32"	3/8"	13/16"	2-1/2"	MT2343695	25.40	16.51
27/64"	3/8"	13/16"	2-1/2"	MT2343713	26.63	17.31
7/16"	3/8"	13/16"	2-1/2"	MT2343656	22.53	14.64
15/32"	1/2"	13/16"	3"	MT2343696	25.68	16.69
1/2"	3/8"	13/16"	2-1/2"	MT2343657	17.58	11.43
1/2"	1/2"	1"	3"	MT2343658	21.29	13.84
31/64"	1/2"	13/16"	3-1/4"	MT2343715	25.68	16.69
33/64"	1/2"	1-1/8"	3"	MT2343716	32.77	21.30
17/32"	1/2"	1-1/8"	3-1/8"	MT2343697	29.19	18.97
35/64"	1/2"	1-1/8"	3-3/8"	MT2343717	31.50	20.48
9/16"	1/2"	1-1/8"	3-1/8"	MT2343699	28.51	18.53
37/64"	1/2"	1-1/8"	3-1/8"	MT2343718	31.50	20.48
19/32"	1/2"	1-1/8"	3-1/8"	MT2343698	34.65	22.52
39/64"	1/2"	1-1/8"	3-1/8"	MT2343719	31.50	20.48
19/64"	3/8"	9/16"	2-1/2"	MT2343709	22.66	14.73
5/8"	1/2"	1-1/8"	3-1/8"	MT2343660	31.39	20.40
5/8"	5/8"	1-5/16"	3-7/16"	MT2343661	29.45	19.14
11/16"	1/2"	1-5/16"	3-5/16"	MT2343662	38.27	24.88
11/16"	5/8"	1-5/16"	3-7/16"	MT2343663	37.19	24.17
3/4"	1/2"	1-5/16"	3-7/16"	MT2343664	33.87	22.02
3/4"	5/8"	1-5/16"	3-7/16"	MT2343665	37.85	24.60
3/4"	3/4"	1-5/16"	3-9/16"	MT2343666	35.75	23.24
13/16"	5/8"	1-1/2"	3-5/8"	MT2343667	45.55	29.61
13/16"	3/4"	1-1/2"	3-3/4"	MT2343668	44.81	29.13
7/8"	5/8"	1-1/2"	3-5/8"	MT2343669	45.77	29.75
7/8"	3/4"	1-1/2"	3-3/4"	MT2343670	46.10	29.97
7/8"	7/8"	1-1/2"	3-3/4"	MT2343671	46.13	29.98
15/16"	3/4"	1-1/2"	3-3/4"	MT2343673	55.47	36.06
15/16"	5/8"	1-1/2"	4"	MT2343672	52.87	34.37
15/16"	7/8"	1-1/2"	3-3/4"	MT2343674	50.13	32.58
1"	5/8"	1-1/2"	3-3/4"	MT2343675	56.09	36.46
1"	3/4"	1-1/2"	3-3/4"	MT2343676	58.88	38.27
1"	7/8"	1-1/2"	3-3/4"	MT2343677	55.53	36.09
1"	1"	1-5/8"	4-1/8"	MT2343678	59.26	38.52
1-1/8"	3/4"	1-1/2"	3-7/8"	MT2343720	74.09	48.16
1-1/8"	1"	1-5/8"	4-1/8"	MT2343680	80.43	52.28
1-1/8"	7/8"	1-5/8"	3-7/8"	MT2343679	77.48	50.36
1-1/4"	3/4"	1-1/2"	3-7/8"	MT2343721	80.89	52.58
1-1/4"	1"	1-5/8"	4-1/8"	MT2343682	80.89	52.58
1-1/4"	1-1/4"	1-5/8"	4-1/2"	MT2343683	90.83	59.04
1-1/4"	7/8"	1-5/8"	3-7/8"	MT2343681	85.41	55.52
1-3/8"	3/4"	1-1/2"	3-7/8"	MT2343722	97.69	63.50
1-3/8"	1"	1-5/8"	4-1/8"	MT2343684	123.29	80.14
1-1/2"	3/4"	1-1/2"	3-7/8"	MT2343723	104.16	67.70
1-1/2"	1-1/4"	1-5/8"	4-1/2"	MT2343686	117.48	76.36
1-1/2"	1"	1-5/8"	4-1/8"	MT2343685	137.75	89.54
1-5/8"	1-1/4"	1-5/8"	4-1/8"	MT2343687	133.49	86.77
1-7/8"	1-1/4"	1-5/8"	4-1/2"	MT2343689	164.73	107.07
1-3/4"	3/4"	1-1/2"	3-7/8"	MT2343724	124.18	80.72
1-3/4"	1-1/4"	1-5/8"	4-1/2"	MT2343688	132.74	86.28
2"	1-1/4"	1-5/8"	4-1/2"	MT2343690	190.04	123.53

10017

TuffCut® XR 7 Flute Carbide End Mills

Altima® Blaze Coated



- Uniquely designed heli-pitch grinding geometry promotes continual, vibration free cutting regardless of depth of cut or width of cut
- 38° Helix
- M.A. Ford List #180

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Depth of Cut Maximum (APMX)	Overall Length (OAL)	Corner Radius (RE)	Order No.	Regular Price	SALE
1/4"	1/4"	3/8"	2"	None	DD1618900	44.18	28.72
1/4"	1/4"	3/8"	2"	0.015"	DD1618901	46.38	30.15
1/4"	1/4"	3/4"	2-1/2"	None	DD1618902	47.07	30.60
1/4"	1/4"	3/4"	51 mm	None	DD1618903	49.42	32.12
1/4"	1/4"	1-1/4"	3"	None	DD1618904	86.16	56.00
3/8"	3/8"	1/2"	2-1/2"	None	DD1618908	72.80	47.32
3/8"	3/8"	1/2"	2-1/2"	0.015"	DD1618909	76.43	49.68
3/8"	3/8"	1/2"	2-1/2"	None	DD1618932	76.43	49.68
3/8"	3/8"	1"	2-1/2"	None	DD1618910	77.52	50.39
3/8"	3/8"	1"	2-1/2"	0.015"	DD1618911	81.39	52.90
3/8"	3/8"	1"	2-1/2"	0.03"	DD1618934	81.39	52.90
3/8"	3/8"	1-1/2"	4"	None	DD1618912	120.57	78.37
1/2"	1/2"	5/8"	3"	None	DD1618512	109.51	71.18
1/2"	1/2"	5/8"	3"	0.015"	DD1518515	103.81	67.48
1/2"	1/2"	5/8"	3"	0.03"	DD1518517	103.81	67.48
1/2"	1/2"	5/8"	3"	0.06"	DD1618519	114.97	74.73
1/2"	1/2"	1-1/4"	3"	None	DD1518514	104.08	67.65
1/2"	1/2"	1-1/4"	3"	0.015"	DD1518516	109.28	71.03
1/2"	1/2"	1-1/4"	3"	0.03"	DD1518518	109.28	71.03
1/2"	1/2"	1-1/4"	3"	0.06"	DD1618520	121.03	78.67
1/2"	1/2"	2"	4"	None	DD1618916	167.06	108.59
5/8"	5/8"	3/4"	3-1/2"	None	DD1618532	206.63	134.31
5/8"	5/8"	3/4"	3-1/2"	0.015"	DD1618535	217.22	141.19
5/8"	5/8"	3/4"	3-1/2"	0.03"	DD1618537	217.22	141.19
5/8"	5/8"	1-1/4"	3-1/2"	None	DD1618534	217.51	141.38
5/8"	5/8"	1-1/4"	3-1/2"	0.015"	DD1518536	206.47	134.21
5/8"	5/8"	1-1/4"	3-1/2"	0.03"	DD1618538	228.67	148.64
5/8"	5/8"	2-1/4"	5"	None	DD1618920	298.58	194.08
3/4"	3/4"	1"	4"	None	DD1618570	303.75	197.44
3/4"	3/4"	1"	4"	0.03"	DD1618575	319.67	207.79
3/4"	3/4"	1"	4"	0.06"	DD1618577	319.67	207.79
3/4"	3/4"	1-1/2"	4"	None	DD1518572	288.69	187.65
3/4"	3/4"	1-1/2"	4"	0.03"	DD1618576	336.48	218.71
3/4"	3/4"	1-1/2"	4"	0.06"	DD1618578	336.48	218.71
3/4"	3/4"	2-1/4"	5"	None	DD1618924	421.46	273.95

9940

TuffCut® XR 7 Flute Carbide End Mills

With Chipbreaker - Altima® Blaze Coated



- Uniquely designed heli-pitch grinding geometry promotes continual, vibration free cutting regardless of depth of cut or width of cut
- 38° Helix
- M.A. Ford List #180CB

SAVE 40%

Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Corner Radius (RE)	Order No.	Regular Price	SALE
1/4"	1/4"	1-1/4"	4"	0.3"	DD1618913	94.78	56.87
3/8"	3/8"	1-1/2"	4"	0.3"	DD1618917	132.63	79.58
1/2"	1/2"	2"	5"	0.3"	DD1618921	183.76	110.26
5/8"	5/8"	2-1/4"	5"	0.3"	DD1618925	328.43	197.06
3/4"	3/4"	3"	6"	0.3"	DD1618929	463.59	278.15

9941

Replacement Blades

SAVE 45%



Product Name	Blade Type	Shaviv Equivalent	Order No.	Regular Price	SALE
Deburring Blade, for Steel, Plastic and Aluminum	B10CO	None	FN55B10CO	2.60	1.69
Deburring Blade-TiN Coated, HSS-HD, for Very Small Holes	S150-TiN	None	FN55BK3112	4.02	2.61
N1 Right-Handed Cobalt Deburring Swivel Blade Deburring Blade for Steel, Plastic and Aluminum.	N1	B10	FN55N1	2.03	1.32
Deburring Blade, for Steel, Plastic and Aluminum	N1C	B10C	FN55N1C	7.30	4.75
Deburring Blade, for Steel, Plastic and Aluminum	N1D	None	FN55N1D	12.36	8.03
Deburring Blade, left handed, for Steel, Plastic and Aluminum	N1LH	None	FN55N1LH	2.87	1.87
Deburring Blade, for High Wear Materials	N1TiN	B10P	FN55N1TiN	2.65	1.72
Deburring Blade, for Brass and Cast Iron	N2	B20	FN55N2	2.04	1.33
Deburring Blade, for Brass and Cast Iron	N2C	B20C	FN55N2C	7.31	4.75
Deburring Blade, to Remove External & Internal Burrs	N3	B30	FN55N3	2.62	1.70
Deburring Blade, for Inside Cross Holes & Back	N6	B60	FN55N6	3.93	2.55
Deburring Blade, for Steel, Aluminum and Plastic	S10	E100	FN55S10	2.72	1.77
NOGA S100 COBALT HD BLADE	S100	None	FN55S100	3.09	2.01
Deburring Blade, HSS-HD, for Small Holes	S101	None	FN55S101	2.76	1.79
Deburring Blade, left handed, for Small Holes	S101LH	None	FN55S101LH	3.25	2.11
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10D	None	FN55S10D	12.70	8.26
Deburring Blade, left handed, for Steel, Aluminum and Plastic	S10LH	None	FN55S10LH	3.67	2.39
NOGA S10TiN HD BLADE TiN	S10TiN	E100P	FN55S10TiN	3.42	2.22
NOGA S150 HEAVY DUTY	S150	None	FN55S150	3.08	2.00
Deburring Blade, HSS-HD, for Brass and Cast Iron	S20	E200	FN55S20	2.91	1.89
Deburring Blade, for Fine Point for Brass & Cast Iron	S202	None	FN55S202	3.08	2.00
Deburring Blade, for Removing External & Internal Burrs	S30	E300	FN55S30	2.93	1.90
Deburring Blade, HSS-HD, for Straight Edges	S35	E350	FN55S35	2.97	1.93
Deburring Blade, for Inside Cross Hole & Back	S60	E600	FN55S60	4.14	2.69

24088

NG Handles & S & N Holders

For Use With	Type	Order No.	Regular Price	SALE
N Blades	N Blade Holder	FN55EL01003	6.88	4.47
S Blades	S Blade Holder	FN55EL02003	6.88	4.47
S Blades	NG-1 Handle	FN55NG1000	8.60	5.59
N Blades	NG-2 Handle	FN55NG2000	8.84	5.75
All Blade Holders	NG-3 Handle	FN55NG3000	8.84	5.75

24075

Adjustable Scraper

Includes: Anodized handle, T80 double end triangular scraper. Medium sized double sided scraper blade



Application	Order No.	Regular Price	SALE
Scraping, Trimming, Deburring	FN55SC8000	20.01	13.01

24094

6 Flute Chatterless Countersink Sets

High Speed Steel - In Plastic Case

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

Quantity	60 Degrees			90 Degrees			82 Degrees			100 Degrees			90 Degrees, TiN			60 Degrees, TiN			82 Degrees, TiN		
	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
4	BC7579003	109.45	82.09	BC7579013	109.45	82.09	BC7579008	109.45	82.09	BC7579019	109.45	82.09	BC7579384	150.57	112.93	BC7579380	150.57	112.93	BC7579382	150.57	112.93
7	BC7579001	159.27	119.45	BC7579011	159.27	119.45	BC7579006	159.27	119.45	BC7579016	159.27	119.45	-	-	-	-	-	-	-	-	-

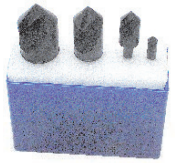
9905

Uniflute® Countersink Sets

High Speed Steel

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

SAVE 30%



Quantity - 4			
Point Angle (SIG)	Order No.	Regular Price	SALE
60 Degrees	BC7064001	103.89	72.72
82 Degrees	BC7064006	103.89	72.72
90 Degrees	BC7064011	103.89	72.72
100 Degrees	BC7064016	103.89	72.72
120 Degrees	BC7064021	103.89	72.72

Quantity - 7			
Point Angle (SIG)	Order No.	Regular Price	SALE
60 Degrees	BC7064003	147.59	103.31
82 Degrees	BC7064008	147.59	103.31
90 Degrees	BC7064013	147.59	103.31
100 Degrees	BC7064018	147.59	103.31
120 Degrees	BC7064023	147.59	103.31

9955

007

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



Order No.	Regular Price	SALE
FN55007	60.00	39.00

10065

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



Order No.	Regular Price	SALE
FN55PV1000	57.63	37.46

10120

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



Included	Order No.	Regular Price	SALE
Cera-Cut Handle / 250 mm Convex Blade	FN55CR2000	34.59	22.48

10069

CUTTING TOOLS



Helical Flute Thread Mills - UN

Threads

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

• Supplied with AlTiN coating only

Tolerance:

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

SAVE 50%

Thread Size	Threads per Inch (TPI)	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Flute Count (NOF)	Order No.	Regular Price	SALE
#6	32	1/8"	0.218"	3	MT3098600	82.67	41.34
#8	32	1/8"	1/4"	3	MT3098602	82.51	41.26
#8	36	1/8"	1/4"	3	MT3098601	84.34	42.17
#10	24	3/16"	0.312"	3	MT3098603	115.53	57.77
#10	32	3/16"	0.312"	3	MT3098604	115.53	57.77
1/4"	20	3/16"	1/2"	3	MT3098605	122.19	61.10
1/4"	28	3/16"	1/2"	3	MT3098606	122.19	61.10
5/16"	18	1/4"	5/8"	3	MT3098607	149.67	74.84
5/16"	24	1/4"	5/8"	3	MT3098608	149.67	74.84
3/8"	16	5/16"	3/4"	4	MT3098609	191.28	95.64
3/8"	24	5/16"	3/4"	4	MT3098610	191.28	95.64
7/16"	14	3/8"	7/8"	4	MT3098611	226.82	113.41
7/16"	20	3/8"	7/8"	4	MT3098612	226.82	113.41
1/2"	13	3/8"	7/8"	4	MT3098613	228.69	114.35
1/2"	20	3/8"	7/8"	4	MT3098614	228.69	114.35
9/16"	12	1/2"	7/8"	4	MT3098615	249.31	124.66
9/16"	18	1/2"	7/8"	4	MT3098616	250.76	125.38
5/8"	11	1/2"	1-1/4"	5	MT3098617	267.08	133.54
5/8"	18	1/2"	1-1/4"	5	MT3098618	261.50	130.75
3/4"	10	1/2"	1-1/4"	5	MT3098619	299.34	149.67
3/4"	16	1/2"	1-1/4"	5	MT3098620	297.89	148.95
7/8"	9	5/8"	1-1/4"	5	MT3098621	404.24	202.12
7/8"	14	5/8"	1-1/4"	5	MT3098622	404.24	202.12
1"	8	3/4"	1-3/8"	5	MT3098623	449.28	224.64
1"	12	3/4"	1-3/8"	5	MT3098624	449.56	224.78

10382

HSS MGP Taper Pipe Taps

High Speed Steel

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

SAVE 50%

Thread Diameter (TDZ)	Threads per Inch (TPI)	Flute Count (NOF)	Threading Part Length (THL)	Overall Length (OAL)	Morse Cutting Tools, NPTF, Bright					
					Morse Cutting Tools, NPT, Bright			Bright		
Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE		
1/16"	27	4	11/16"	2-1/8"	MT4036121	25.79	12.90	MT4036141	25.79	12.90
1/8"	27	4	3/4"	2-1/8"	MT4036122	25.66	12.83	MT4036142	25.66	12.83
1/8"	27	4	3/4"	2-1/8"	MT4036123	25.66	12.83	MT4036143	25.66	12.83
1/4"	18	4	1-1/16"	2-9/16"	MT4036124	28.04	14.02	MT4036144	28.04	14.02
3/8"	18	4	1-1/16"	2-9/16"	MT4036125	36.81	18.41	MT4036145	36.81	18.41
1/2"	14	4	1-3/8"	3-1/8"	MT4036126	58.59	29.30	MT4036146	58.59	29.30
3/4"	14	5	1-3/8"	3-1/4"	MT4036127	82.90	41.45	MT4036147	82.90	41.45
1-1/4"	11	5	1-3/4"	4"	MT4036128	124.97	62.49	MT4036148	124.97	62.49
1-1/4"	11	5	1-3/4"	4"	MT4036129	176.96	88.48	MT4036149	176.96	88.48
1-1/2"	11.5	7	1-3/4"	4-1/4"	MT4036130	242.68	121.34	MT4036150	242.68	121.34
2"	11.5	7	1-3/4"	4-1/2"	MT4036131	326.11	163.06	MT4036151	326.11	163.06

†Small shank .3125 diameter

10007



General Purpose Hand Taps - Fractional Sizes

Ground Thread •

High Speed Steel

SAVE 40%

Thread Diameter Size (TDZ)	Threads per Inch (TPI)	Thread Tolerance Class (TCTR)	Flute Count (NOF)	Morse Cutting Tools, Taper			Morse Cutting Tools, Plug			Morse Cutting Tools, Bottoming		
				Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	20	H3	2	-	-	-	MT3632405	8.29	4.97	MT3732603	8.68	5.21
1/4"	20	H3	3	-	-	-	MT3732406	8.29	4.97	MT3732604	7.79	4.67
1/4"	20	H5	3	-	-	-	MT3732408	7.67	4.60	MT3732606	7.79	4.67
1/4"	20	H1	4	MT3732301	8.02	4.81	MT3732402	8.44	5.06	MT3732601	8.83	5.30
1/4"	20	H2	4	MT3732302	8.02	4.81	MT3732404	8.02	4.81	MT3732602	8.02	4.81
1/4"	20	H3	4	MT3732303	6.52	3.91	MT3732407	6.52	3.91	MT3732605	6.52	3.91
1/4"	20	H5	4	-	-	-	MT3732409	8.02	4.81	-	-	-
1/4"	28	H3	2	-	-	-	MT3732412	8.21	4.93	MT3732609	8.29	4.97
1/4"	28	H3	3	-	-	-	MT3732413	8.29	4.97	MT3732610	8.29	4.97
1/4"	28	H1	4	-	-	-	MT3732410	8.02	4.81	MT3732607	8.02	4.81
1/4"	28	H2	4	-	-	-	MT3732411	8.02	4.81	MT3732608	8.44	5.06
1/4"	28	H3	4	MT3732304	6.72	4.03	MT3732414	6.72	4.03	MT3732611	6.72	4.03
1/4"	28	H4	4	-	-	-	MT3732415	6.13	3.68	MT3732612	6.72	4.03
5/16"	18	H3	2	-	-	-	-	-	-	MT3732615	10.52	6.31
5/16"	18	H3	3	-	-	-	MT3732420	9.63	5.78	MT3732616	9.21	5.53
5/16"	18	H2	4	-	-	-	MT3732418	9.33	5.60	MT3732614	9.33	5.60
5/16"	18	H3	4	MT3732305	8.29	4.97	MT3732421	8.29	4.97	MT3732617	8.29	4.97
5/16"	18	H5	4	-	-	-	MT3732422	9.33	5.60	MT3732618	9.33	5.60
5/16"	24	H3	3	-	-	-	MT3732425	8.48	5.09	MT3732620	9.63	5.78
5/16"	24	H2	4	-	-	-	MT3732424	9.33	5.60	-	-	-
5/16"	24	H3	4	MT3732306	8.29	4.97	MT3732426	8.29	4.97	MT3732621	8.29	4.97
5/16"	24	H4	4	-	-	-	MT3732427	8.29	4.97	-	-	-
3/8"	16	H1	4	-	-	-	MT3732429	10.56	6.34	-	-	-
3/8"	16	H2	4	-	-	-	MT3732430	10.56	6.34	MT3732624	10.56	6.34
3/8"	16	H3	3	-	-	-	MT3732431	10.32	6.19	MT3732625	10.32	6.19
3/8"	16	H3	4	MT3732307	9.33	5.60	MT3732432	9.33	5.60	MT3732626	9.33	5.60
3/8"	16	H5	4	-	-	-	MT3732434	10.14	6.08	MT3732627	10.56	6.34
3/8"	24	H3	3	-	-	-	MT3732437	11.81	7.09	MT3732630	11.81	7.09
3/8"	24	H1	4	-	-	-	MT3732435	10.14	6.08	-	-	-
3/8"	24	H2	4	-	-	-	MT3732436	10.56	6.34	MT3732629	10.56	6.34
3/8"	24	H3	4	MT3732308	9.33	5.60	MT3732438	9.33	5.60	MT3732631	9.33	5.60
3/8"	24	H4	4	-	-	-	MT3732439	9.33	5.60	-	-	-
7/16"	14	H3	3	-	-	-	MT3732440	17.16	10.30	-	-	-
7/16"	14	H3	4	MT3732309	15.01	9.01	MT3732441	15.01	9.01	MT3732633	15.01	9.01
7/16"	14	H5	4	-	-	-	MT3732442	16.50	9.90	MT3732634	17.54	10.52
7/16"	20	H3	3	-	-	-	MT3732443	17.16	10.30	-	-	-
7/16"	20	H3	4	MT3732310	16.00	9.60	MT3732444	16.00	9.60	MT3732635	16.00	9.60
7/16"	20	H5	4	-	-	-	MT3732445	17.54	10.52	MT3732636	17.54	10.52
1/2"	13	H1	4	-	-	-	MT3732446	20.38	12.23	-	-	-
1/2"	13	H3	4	MT3732311	16.84	10.10	MT3732449	16.84	10.10	MT3732640	16.84	10.10
1/2"	13	H5	4	-	-	-	MT3732450	20.64	12.38	MT3732641	20.07	12.04
1/2"	13	H3	3	-	-	-	MT3732448	20.38	12.23	MT3732639	20.38	12.23
1/2"	20	H1	4	-	-	-	MT3732451	20.64	12.38	MT3732642	19.87	11.93
1/2"	20	H3	4	MT3732312	19.19	11.51	MT3732453	19.19	11.51	MT3732643	19.19	11.51
1/2"	20	H5	4	-	-	-	MT3732454	20.64	12.38	-	-	-
9/16"	12	H3	4	MT3732313	28.28	16.97	MT3732455	28.28	16.97	MT3732644	28.28	16.97
9/16"	12	H5	4	-	-	-	MT3732456	28.85	17.31	-	-	-
9/16"	18	H2	4	-	-	-	MT3732457	30.90	18.54	-	-	-
9/16"	18	H3	4	MT3732314	28.28	16.97	MT3732458	28.28	16.97	MT3732645	28.28	16.97
9/16"	18	H5	4	-	-	-	MT3732459	30.90	18.54	-	-	-
5/8"	11	H2	4	-	-	-	MT3732460	34.11	20.47	-	-	-
5/8"	11	H3	4	MT3732315	34.11	20.47	MT3732461	34.11	20.47	MT3732647	34.11	20.47
5/8"	11	H5	4	-	-	-	MT3732462	39.26	23.56	MT3732648	39.26	23.56
5/8"	18	H2	4	-	-	-	MT3732463	39.26	23.56	-	-	-
5/8"	18	H3	4	MT3732316	34.11	20.47	MT3732464	34.11	20.47	MT3732649	34.11	20.47
5/8"	18	H5	4	-	-	-	MT3732465	37.00	22.20	MT3732650	39.26	23.56
11/16"	11	H3	4	MT3732317	42.33	25.40	MT3732466	42.33	25.40	MT3732651	42.33	25.40
11/16"	16	H3	4	MT3732318	42.33	25.40	MT3732467	42.33	25.40	MT3732652	42.33	25.40
3/4"	10	H3	4	MT3732319	48.04	28.82	MT3732469	48.04	28.82	MT3732653	48.04	28.82
3/4"	10	H5	4	-	-	-	MT3732470	51.12	30.67	MT3732654	51.12	30.67
3/4"	16	H1	4	-	-	-	MT3732471	51.12	30.67	-	-	-
3/4"	16	H2	4	-	-	-	MT3732472	51.07	30.64	-	-	-
3/4"	16	H3	4	MT3732320	48.04	28.82	MT3732473	48.04	28.82	MT3732655	48.04	28.82
3/4"	16	H5	4	-	-	-	MT3732474	51.12	30.67	MT3732656	51.12	30.67
7/8"	9	H4	4	MT3732321	66.08	39.65	MT3732475	66.08	39.65	MT3732657	66.08	39.65
7/8"	9	H6	4	-	-	-	MT3732476	69.38	41.63	-	-	-
7/8"	14	H2</										

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	20.19	12.11
1/4"	28	4	2-1/2"	MT3732702	20.19	12.11
5/16"	18	4	2-23/32"	MT3732703	24.71	14.83
5/16"	24	4	2-23/32"	MT3732704	24.71	14.83
3/8"	16	4	2-15/16"	MT3732705	28.05	16.83
3/8"	24	4	2-15/16"	MT3732706	28.05	16.83
7/16"	14	4	3-5/32"	MT3732707	48.24	28.94
7/16"	20	4	3-5/32"	MT3732708	48.24	28.94
1/2"	13	4	3-19/32"	MT3732709	50.42	30.25
1/2"	20	4	3-19/32"	MT3732710	57.64	34.58
9/16"	12	4	3-19/32"	MT3732711	84.77	50.86
9/16"	18	4	3-19/32"	MT3732712	84.77	50.86
5/8"	11	4	3-13/16"	MT3732713	102.23	61.34
5/8"	18	4	3-13/16"	MT3732714	102.23	61.34
11/16"	11	4	4-1/32"	MT3732715	127.10	76.26
11/16"	16	4	4-1/32"	MT3732716	127.10	76.26
3/4"	10	4	4-1/4"	MT3732717	144.13	86.48
3/4"	16	4	4-1/4"	MT3732718	144.13	86.48
7/8"	9	4	4-11/16"	MT3732719	198.32	118.99
7/8"	14	4	4-11/16"	MT3732720	198.32	118.99
1"	8	4	5-1/8"	MT3732721	264.40	158.64
1"	12	4	5-1/8"	MT3732722	264.40	158.64
1"	14	4	5-1/8"	MT3732723	264.40	158.64
1-1/8"	7	4	5-7/16"	MT3732724	423.74	254.24
1-1/8"	12	4	5-7/16"	MT3732725	457.74	274.64
1-1/4"	7	4	5-3/4"	MT3732726	559.39	335.63
1-1/4"	12	4	5-3/4"	MT3732727	567.84	340.70
1-3/8"	6	4	6-1/16"	MT3732728	703.52	422.11
1-3/8"	12	4	6-1/16"	MT3732729	711.85	427.11
1-1/2"	6	4	6-3/8"	MT3732730	813.70	488.22
1-1/2"	12	4	6-3/8"	MT3732731	830.44	498.26

10026

PRO-CUT 39 Pc. Tap & Die Sets

#4 thru 1/2" Adjustable Round Dies

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



Cutting Edge Material	Order No.	Regular Price	SALE
Carbon Steel	ET51C614	121.77	66.97
HSS	ET51HS614	259.02	142.46

10278

PRO-CUT 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



FamilyName	Order No.	Regular Price	SALE
PCUET504099TDS-I ProCut	ET504099TDS	80.10	52.07

10350

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	65.43	52.34
#5	EX70540105	104.33	83.46
#6	EX70540106	65.41	52.33
#8	EX7054012	65.80	52.64
#10	EX7054013	61.50	49.20
#12	EX7054011	62.17	49.74
1/4"	EX7054014	63.45	50.76
5/16"	EX7054015	66.07	52.86
3/8"	EX7054016	67.37	53.90
7/16"	EX7054017	71.30	57.04
1/2"	EX7054018	101.42	81.14
9/16"	EX7054019	141.48	113.18
5/8"	EX70540110	145.02	116.02
3/4"	EX70540112	169.75	135.80
7/8"	EX70552114	222.62	178.10
1"	EX70552116	328.60	262.88
1 1/8"	EX70552118	412.21	329.77
1 1/4"	EX70552120	406.29	325.03
1 3/8"	EX70552122	441.68	353.34
1 1/2"	EX70552124	477.00	381.60
#6	EX70540206	104.33	83.46
#8	EX7054022	128.93	103.14
#10	EX7054023	68.68	54.94
1/4"	EX7054024	70.64	56.51
5/16"	EX7054025	90.55	72.44
3/8"	EX7054026	77.99	61.75
7/16"	EX7054027	81.14	64.91
1/2"	EX7054028	111.20	88.96
9/16"	EX7054029	152.08	121.66
5/8"	EX70540210	159.18	127.34
3/4"	EX70540212	183.88	147.10
7/8"	EX70552814	325.10	260.08
1"	EX70552816	381.58	305.26
1"	EX70552816	381.58	305.26
1 1/8"	EX70552818	477.00	381.60
1 1/4"	EX70552820	547.64	438.11
1 3/8"	EX70552822	600.71	480.57
1 1/2"	EX70552824	635.99	508.79

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 capabilities and restore parts that otherwise would have to be scrapped.



Insert Thread Size	Order No.	Regular Price	SALE
M3	EX7054033	104.33	83.46
M4	EX7054034	65.80	52.64
M5	EX7054035	66.51	53.21
M6	EX7054036	62.80	50.24
M7	EX7054037	63.79	51.03
M8	EX7054038	63.79	51.03
M10	EX70540310	76.85	61.48
M12	EX70540312	86.62	69.30
M14	EX70540314	152.08	121.66
M16	EX70540316	169.75	135.80
M18	EX70540318	201.41	161.13
M20	EX70540320	222.62	178.10
M8	EX7054048	117.87	94.30
M10	EX70540410	117.87	94.30
M10	EX70540510	180.28	144.22
M12	EX70540512	117.87	94.30
M12	EX70540612	117.87	94.30
M14	EX70540614	180.28	144.22
M16	EX70540616	183.75	147.00
M18	EX70540618	204.37	163.50

9764

CUTTING TOOLS

WALTER X-treme DH20 High Performance Solid Carbide Coolant Thru Geometry Drills

- 20xD Length
- 140° Point
- TiAlN Coated
- Ideal in steel and applicable in stainless steel, cast iron, aluminum and titanium
- Walter List# A6794TFP

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
3 mm	0.1181"	6 mm	60 mm	107 mm	TT105564938	347.11	329.75
1/8"	0.125"	0.236"	3-25/64"	5-9/32"	TT105564939	347.11	329.75
3.5 mm	0.1378"	6 mm	86 mm	134 mm	TT105564960	347.11	329.75
9/64"	0.1406"	0.236"	3-25/64"	5-9/32"	TT105564961	347.11	329.75
5/32"	0.1563"	0.236"	3-25/64"	5-9/32"	TT105564962	347.11	329.75
4 mm	0.1575"	6 mm	86 mm	134 mm	TT105564963	347.11	329.75
4.5 mm	0.1772"	6 mm	110 mm	158 mm	TT105564964	347.11	329.75
3/16"	0.1875"	0.236"	4-21/64"	6-7/32"	TT105564965	347.11	329.75
4.8 mm	0.189"	6 mm	110 mm	158 mm	TT105564966	347.11	329.75
5 mm	0.1969"	6 mm	110 mm	158 mm	TT105564967	347.11	329.75
5.5 mm	0.2165"	6 mm	123 mm	170 mm	TT105564968	347.11	329.75
7/32"	0.2188"	0.236"	5-5/16"	7-11/64"	TT105564969	347.11	329.75
5.8 mm	0.2283"	6 mm	135 mm	182 mm	TT105564970	315.18	299.42
6 mm	0.2362"	6 mm	135 mm	182 mm	TT105564971	347.11	329.75
6.1 mm	0.2402"	8 mm	151 mm	200 mm	TT105564972	417.15	396.29
1/4"	0.25"	0.315"	5.94"	7-7/8"	TT105564973	417.15	396.29
6.5 mm	0.2559"	8 mm	151 mm	200 mm	TT105564974	417.15	396.29
6.8 mm	0.2677"	8 mm	151 mm	200 mm	TT105564975	417.15	396.29
7 mm	0.2756"	8 mm	151 mm	200 mm	TT105564976	417.15	396.29
9/32"	0.2813"	0.315"	6-49/64"	8-47/64"	TT105564977	417.15	396.29
7.4 mm	0.2913"	8 mm	172 mm	222 mm	TT105564978	417.15	396.29
7.5 mm	0.2953"	8 mm	172 mm	222 mm	TT105564979	417.15	396.29
5/16"	0.3125"	0.315"	6-49/64"	8-47/64"	TT105564980	417.15	396.29
8 mm	0.315"	8 mm	172 mm	222 mm	TT105564981	417.15	396.29
8.3 mm	0.3268"	10 mm	184 mm	240 mm	TT105564982	486.16	461.85
8.5 mm	0.3346"	10 mm	184 mm	240 mm	TT105564983	486.16	461.85
11/32"	0.3438"	0.394"	7-1/4"	9-29/64"	TT105564984	486.16	461.85
9 mm	0.3543"	10 mm	184 mm	240 mm	TT105564985	486.16	461.85
3/8"	0.375"	0.394"	8-5/64"	10-5/16"	TT105564986	486.16	461.85
9.8 mm	0.3858"	10 mm	205 mm	262 mm	TT105564987	486.16	461.85
10 mm	0.3937"	10 mm	205 mm	262 mm	TT105564988	486.16	461.85

29606

WALTER Alpha® 4 XD16 High Performance Solid Carbide Coolant Thru Geometry Drills

- 16xD Length
- 140° Point
- DPP Coated
- Ideal in steel, cast iron, aluminum and titanium
- Walter List# A6685TFP

Drill Bit Size / Cutting Diameter (DC)	Decimal Equivalent	Connection Diameter Machine Side (DCONMS)	Usable Length (LU)	Overall Length (OAL)	Order No.	Regular Price	SALE
4.5 mm	0.1772"	6 mm	92 mm	140 mm	TT105154849	258.53	245.60
6 mm	0.2362"	6 mm	111 mm	160 mm	TT105154859	258.53	245.60
7 mm	0.2756"	8 mm	124 mm	175 mm	TT105154861	310.03	294.53
13/32"	0.4063"	0.472"	7-1/8"	9-23/32"	TT105293844	490.28	465.77

29604

EMUGE FRANKEN Solid Carbide NC Spot Drills

- Premium sub-micrograin carbide
- Bright finished surface
- 90 / 142 double angle point reduces drill tip breakage issues
- Drill point chisel edge is reduced with web thinned 142 entry point grind
- Double angle reduces axial drilling pressure and creates efficient chip formation
- Chamfer angles of 90
- HA - cylindrical shank
- Suitable for a wide range of materials



Drill Bit Size / Cutting Diameter (DC)	Connection Diameter Machine Side (DCONMS)	Decimal Equivalent	Flute Count (NOF)	Overall Length (OAL)	Bright, 90 Degrees			Bright, 120 Degrees			AlTiN, 142 Degrees		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/8"	1/8"	0.125"	2	2"	ER45E-FU31000317	21.77	20.68	ER45E-FU32000317	21.77	20.68	ER-45FUT33000317	23.95	22.75
1/4"	1/4"	0.25"	2	2-1/2"	ER45E-FU31000635	42.97	40.82	ER45E-FU32000635	42.97	40.82	ER-45FUT33000635	47.27	44.91
3/8"	3/8"	0.375"	2	3"	ER45E-FU31000952	71.12	67.56	ER45E-FU32000952	71.12	67.56	ER-45FUT33000952	78.23	74.32
1/2"	1/2"	0.5"	2	3"	ER45E-FU31001270	122.75	116.61	ER-45FUT32001270	122.75	116.61	ER-45FUT33001270	135.03	128.28
5/8"	5/8"	0.625"	2	4"	ER45E-FU31001587	145.19	137.93	ER-45FUT32001587	145.19	137.93	ER-45FUT33001587	159.71	151.72
3/4"	3/4"	0.75"	2	4"	ER45E-FU31001905	259.27	246.31	ER-45FUT32001905	259.27	246.31	ER-45FUT33001905	285.20	270.94

28991

PRO CUT Jobber Drills

High Speed Steel • 118° Stand-
ard Point • Surface Treated

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

**SAVE
45%**

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	1.39	0.70
1/32"	0.0312	1/2"	1-3/8"	AC40002B	0.89	0.45
3/64"	0.0469	3/4"	1-3/4"	AC40003B	0.89	0.45
1/16"	0.0625	7/8"	1-7/8"	AC40004B	0.89	0.45
5/64"	0.0781	1"	2"	AC40005B	0.97	0.49
3/32"	0.0938	1-1/4"	2-1/4"	AC40006B	0.97	0.49
7/64"	0.1094	1-1/2"	2-5/8"	AC40007B	0.97	0.49
1/8"	0.1250	1-5/8"	2-3/4"	AC40008B	0.97	0.49
9/64"	0.1406	1-3/4"	2-7/8"	AC40009B	1.67	0.84
5/32"	0.1562	2"	3-1/8"	AC40010B	1.03	0.52
11/64"	0.1719	2-1/8"	3-1/4"	AC40011B	1.10	0.55
3/16"	0.1875	2-5/16"	3-1/2"	AC40012B	1.24	0.62
13/64"	0.2030	2-7/16"	3-5/8"	AC40013B	1.39	0.70
7/32"	0.2188	2-1/2"	3-3/4"	AC40014B	1.58	0.79
15/64"	0.2344	2-5/8"	3-7/8"	AC40015B	1.58	0.79
1/4[E]	0.2500	2-3/4"	4"	AC40016B	1.80	0.90
17/64"	0.2656	2-7/8"	4-1/8"	AC40017B	2.16	1.08
9/32"	0.2812	2-15/16"	4-1/4"	AC40018B	2.28	1.14
19/64"	0.2969	3-1/16"	4-3/8"	AC40019B	2.63	1.32
5/16"	0.3125	3-3/16"	4-1/2"	AC40020B	2.90	1.45
21/64"	0.3281	3-5/16"	4-5/8"	AC40021B	3.11	1.56
11/32"	0.3438	3-7/16"	4-3/4"	AC40022B	3.59	1.80
23/64"	0.3594	3-1/2"	4-7/8"	AC40023B	3.94	1.97
3/8"	0.3750	3-5/8"	5"	AC40024B	4.08	2.04
25/64"	0.3906	3-3/4"	5-1/8"	AC40025B	4.69	2.35
13/32"	0.4060	3-7/8"	5-1/4"	AC40026B	4.76	2.38
27/64"	0.4219	3-15/16"	5-3/8"	AC40027B	5.24	2.62
7/16"	0.4375	4-1/16"	5-1/2"	AC40028B	5.46	2.73
29/64"	0.4531	4-3/16"	5-5/8"	AC40029B	6.14	3.07
15/32"	0.4688	4-5/16"	5-3/4"	AC40030B	6.50	3.25
31/64"	0.4844	4-3/8"	5-7/8"	AC40031B	7.94	3.97
1/2"	0.5000	4-1/2"	6"	AC40032B	8.30	4.15
17/32"	0.5312	4-13/16"	6-5/8"	AC40034B	13.69	6.85
9/16"	0.5625	4-13/16"	6-5/8"	AC40036B	15.08	7.54
19/32"	0.5938	5-3/16"	7-1/8"	AC40038B	15.49	7.75
5/8"	0.6250	5-3/16"	7-1/8"	AC40040B	17.69	8.85
21/32"	0.6562	5-3/16"	7-1/8"	AC40042B	17.90	8.95
11/16"	0.6875	5-5/8"	7-5/8"	AC40044B	20.46	10.23

24478

PRO CUT Heavy Duty Cobalt Screw Machine Drills

Cobalt • 135° 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	4.62	2.08
5/64"	11/16"	1-11/16"	PT1840305	4.65	2.09
3/32"	3/4"	1-3/4"	PT1840306	4.62	2.08
7/64"	13/16"	1-13/16"	PT1840307	5.25	2.36
1/8"	7/8"	1-7/8"	PT1840308	6.02	2.71
9/64"	15/16"	1-15/16"	PT1840309	6.09	2.74
5/32"	1"	2-1/16"	PT1840310	6.60	2.97
11/64"	1-1/16"	2-1/8"	PT1840311	7.49	3.37
13/64"	1-3/16"	2-1/4"	PT1840313	10.01	4.50
15/64"	1-5/16"	2-7/16"	PT1840315	12.26	5.52
1/4" - E	1-3/8"	2-1/2"	PT1840316	12.26	5.52
17/64"	1-7/16"	2-5/8"	PT1840317	14.42	6.49
5/16"	1-5/8"	2-13/16"	PT1840320	19.00	8.55
3/8"	1-13/16"	3-1/8"	PT1840324	26.27	11.82
13/32"	1-15/16"	3-5/16"	PT1840326	31.00	13.95
1/2"	2-1/4"	3-3/4"	PT1840332	42.13	18.96

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	33.17	28.19
0.5 mm	0.0197"	3 mm	4 mm	57 mm	AX2804694	33.17	28.19
0.65 mm	0.0256"	3 mm	5 mm	57 mm	AX2804700	33.17	28.19
0.6 mm	0.0236"	3 mm	5 mm	57 mm	AX2804698	33.17	28.19
0.75 mm	0.0295"	3 mm	6 mm	57 mm	AX2804704	33.17	28.19
0.7 mm	0.0276"	3 mm	5 mm	57 mm	AX2804702	33.17	28.19
0.85 mm	0.0335"	3 mm	7 mm	57 mm	AX2804708	33.17	28.19
0.8 mm	0.0315"	3 mm	6 mm	57 mm	AX2804706	33.17	28.19
0.95 mm	0.0374"	3 mm	7 mm	57 mm	AX2804712	33.17	28.19
0.9 mm	0.0354"	3 mm	7 mm	57 mm	AX2804710	33.17	28.19
1 mm	0.0394"	3 mm	8 mm	57 mm	AX2804714	33.17	28.19
1.05 mm	0.0413"	3 mm	8 mm	57 mm	AX2804716	33.17	28.19
1.15 mm	0.0453"	3 mm	9 mm	57 mm	AX2804720	33.17	28.19
1.1 mm	0.0433"	3 mm	8 mm	57 mm	AX2804718	33.17	28.19
1.25 mm	0.0492"	3 mm	9 mm	57 mm	AX2804724	33.17	28.19
1.2 mm	0.0472"	3 mm	9 mm	57 mm	AX2804722	33.17	28.19
1.35 mm	0.0531"	3 mm	10 mm	57 mm	AX2804728	33.17	28.19
1.3 mm	0.0512"	3 mm	10 mm	57 mm	AX2804726	33.17	28.19
1.45 mm	0.0571"	3 mm	11 mm	57 mm	AX2804732	33.17	28.19
1.4 mm	0.0551"	3 mm	10 mm	57 mm	AX2804730	33.17	28.19
1.55 mm	0.0611"	3 mm	12 mm	57 mm	AX2804736	40.42	34.36
1.5 mm	0.0591"	3 mm	11 mm	57 mm	AX2804734	33.17	28.19
1.65 mm	0.065"	3 mm	12 mm	57 mm	AX2804740	40.42	34.36
1.6 mm	0.063"	3 mm	12 mm	57 mm	AX2804738	40.42	34.36
1.75 mm	0.0689"	3 mm	13 mm	57 mm	AX2804744	40.42	34.36
1.7 mm	0.0669"	3 mm	13 mm	57 mm	AX2804742	40.42	34.36
1.8 mm	0.0709"	3 mm	13 mm	57 mm	AX2804746	40.42	34.36
1.85 mm	0.0728"	3 mm	14 mm	57 mm	AX2804748	40.42	34.36
1.9 mm	0.0748"	3 mm	14 mm	57 mm	AX2804750	40.42	34.36
1.95 mm	0.0768"	3 mm	14 mm	57 mm	AX2804752	40.42	34.36
2 mm	0.0787"	3 mm	15 mm	57 mm	AX2804754	40.42	34.36
2.05 mm	0.0807"	3 mm	15 mm	57 mm	AX2804756	40.42	34.36
2.1 mm	0.0827"	3 mm	15 mm	57 mm	AX2804758	40.42	34.36
2.15 mm	0.0846"	3 mm	16 mm	57 mm	AX2804760	40.42	34.36
2.2 mm	0.0866"	3 mm	16 mm	57 mm	AX2804762	40.42	34.36
2.25 mm	0.0886"	3 mm	17 mm	57 mm	AX2804764	40.42	34.36
2.3 mm	0.0906"	3 mm	17 mm	57 mm	AX2804766	40.42	34.36
2.35 mm	0.0925"	3 mm	17 mm	57 mm	AX2804768	40.42	34.36
2.4 mm	0.0945"	3 mm	18 mm	57 mm	AX2804770	40.42	34.36
2.45 mm	0.0965"	3 mm	18 mm	57 mm	AX2804772	40.42	34.36
2.5 mm	0.0984"	3 mm	18 mm	57 mm	AX2804774	40.42	34.36
2.55 mm	0.1004"	3 mm	19 mm	57 mm	AX2804776	44.47	37.80
2.6 mm	0.1024"	3 mm	19 mm	57 mm	AX2804778	44.47	37.80
2.65 mm	0.1043"	3 mm	19 mm	57 mm	AX2804780	44.47	37.80
2.7 mm	0.1063"	3 mm	20 mm	57 mm	AX2804782	44.47	37.80
2.75 mm	0.1083"	3 mm	20 mm	57 mm	AX2804784	44.47	37.80
2.8 mm	0.1102"	3 mm	20 mm	57 mm	AX2804786	44.47	37.80
2.85 mm	0.1122"	3 mm	21 mm	57 mm	AX2804788	44.47	37.80
2.9 mm	0.1142"	3 mm	21 mm	57 mm	AX2804790	44.47	37.80
2.95 mm	0.1161"	3 mm	21 mm	57 mm	AX2804792	44.47	37.80

9949

PRO CUT 29 Pc. Taper Length Drill Set

Straight Shank • 1/16"-1/2" by 64ths

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

**SAVE
30%**



Order No.	Regular Price	SALE
AP50104E	19710	118.26

24453

MAGIC Cutting Fluids

A cutting fluid for tapping, drilling, reaming, profile milling and sawing

- **Tap Magic/Aluminum:** The most effective cutting fluid for work on aluminum
- **Tap Magic with EP-Xtra:** Ozone friendly for any cut on any metal. Without equal on hard metals



Container Size	EP-Xtra		Aluminum		SALE
	Order No.	Price	Order No.	Regular Price	
4 oz	LJ5010004E	4.22	LJ5020004A	4.22	3.16
16 oz	LJ5010016E	13.49	LJ5020016A	13.49	10.11
1 gallon	LJ5010128E	78.49	LJ5020128A	78.49	58.86

8539

PRIMPRO Spotting Blue-H2O

- Perfect for die spotting and layout applications
- Water soluble non-drying
- Washes off for no mess
- Can be applied with ease using brush, rollers, sprayers, etc.
- Safe, non-marring and will not deface metal surfaces
- Non-toxic
- **Alternative to Canone Blue**



Container Size	Order No.	Regular Price	SALE
8 oz	PR0310010	23.77	15.45
16 oz	PR0310020	45.63	29.65
1 quart	PR0310030	87.37	56.79
1 gallon	PR0310040	318.58	207.07

24323

LOCTITE 262 Permanent Threadlocker

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



Container Size	Order No.	Regular Price	SALE
10 ml	LM5026221	22.33	18.98
50 ml	LM5026231	62.13	52.81

23726

LEGACY Heavy Duty Barrel Pump

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



Type	Weight	Order No.	Regular Price	SALE
Heavy Duty Barrel Pump	7 lbs	LX55L3000	59.23	38.49

5436

Accu-Lube Lubricants and Paste

Accu-Lube LB-2000

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



LK60LB2000

Accu-Lube LB-3000

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



LK60LB3000

Accu-Lube Paste

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



LK6079030

Accu-Lube Stick Lubricants

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



LK6079042



LK6079045

Container Size	Order No.	Regular Price	SALE
2.2 oz	LK6079042	7.69	5.76
8 oz	LK6079030	16.25	12.18
13 oz	LK6079045	22.05	16.53
1 gallon	LK60LB2000	113.40	85.05
1 gallon	LK60LB3000	73.43	55.07

22633

BLASTER PB B'laster

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



Container Size	Order No.	Regular Price	SALE
16 oz	LR7116PB	10.90	7.08
1 gallon	LR71128PB	71.65	46.57

8165

Tempil Tempilstik Temperature Indicating Sticks

- Stick instantly melts at desired temperature for easy and immediate inspection
- Calibration free with 100% reliability at +/- 1% of desired temperature
- Easy to use aluminum holder, imprinted part number and temperature on each stick



Temperature Range	Order No.	Regular Price	SALE
Up to 150° F	LH5228006	16.90	11.83
200° F	LH5228012	16.90	11.83
250° F	LH5228019	16.90	11.83
300° F	LH5228026	16.90	11.83
300° F	LH5228031	18.29	12.80
400° F	LH5228035	18.29	12.80
450° F	LH5228039	18.29	12.80
500° F	LH5228043	17.93	12.55
550° F	LH5228045	17.93	12.55
600° F	LH5228047	17.93	12.55

4058

CIMCOOL CIMSTAR 40B

- Semi-synthetic recommended for moderate-duty machining and grinding of ferrous metals and some non-ferrous metals.
- The oily residue keeps machine tools and work-piece materials free of corrosion and staining
- Good rancidity and foam control
- Additional handling charges may apply
- 55 gallon ships by truck



Container Size	Order No.	Regular Price	SALE
5 gallon	LL5100893P	157.20	117.90
55 gallon - ships by truck	LL5100893D	1648.98	1236.73

† Ships By Truck - All 55 Gallon Drums FOB Factory

8206

AGS Cut-Ease® Metal Cutting Lubricant

- For high speed sawing and cutting where circulating lubricants are not used
- Outstanding on band saws
- Provides smooth, cool-cutting for non-ferrous metals and plastics
- Won't stain aluminum
- Extends tool life, cleaner/faster cut, stops binding and prevents burring
- Typical Applications: Use Cut-Ease on metals, plastics and other materials involving sawing, grinding, spinning, tapping, drilling and milling



Container Size	Order No.	Regular Price	SALE
1 lb	LK40CE16	13.10	9.82

8098

CRC Hydroforce® Glass Cleaner

- Cuts through dirt, dust, fingerprints and haze deposits
- Provides streak-free glass cleaning even on delicate glass surfaces
- Biodegradable, ready to use
- For use on glass, fiberglass, mirrors, stainless steel, polished metals, plastic, chrome & linoleum



Size	Order No.	Regular Price	SALE
32 oz	LR5014411	12.29	10.44
18 oz	LR5014412	7.18	6.10

† Aerosol can

22881

DYKEM BRITE-MARK Paint Markers

- General purpose marker that writes on almost any surface and features a precision tip for clear, distinct markings
- Quick drying, oil based paint withstands indoor and outdoor conditions
- Makes permanent bright marks on metal, rubber, plastic, glass, concrete, stone, vinyl and more
- Valve action mechanism prevents paint in barrel from drying with the cap is left off
- Drying time: 25-35 seconds



Color	Order No.	Regular Price	SALE
Blue	LL6084001	4.72	3.54
Black	LL6084002	4.72	3.54
White	LL6084003	4.72	3.54
Yellow	LL6084004	4.72	3.54
Orange	LL6084005	4.72	3.54
Red	LL6084006	4.72	3.54
Green	LL6084007	4.72	3.54

23340

FLEXBAR Quicksetting Putty Metrology Casting Material

QUICK SETTING PUTTY (No. 16130) Final Color - LIGHT BLUE Roll two equal-sized balls of catalyst putty and base putty and simply knead them together like dough. Excellent for external shapes. Simply spread over master pushing down with fingers and wait for cure 8-10 minutes. You have 2-3 minutes of manipulation time. Therefore 13 minutes start to finish. You can also cast internal shapes and cavities but some pressure should be applied such as a weighted object on top. **Exotic Metrology-Grade Rubber - Self-Curing in Minutes Virtually Perfect Replica Castings of Internal and External Forms Non-Toxic - Easy to Use - 100 Times Faster Than RTV Silicones - No Release Agent is Ever Needed** Hazard Code: 58



Order No.	Regular Price	SALE
GG4516130	314.36	235.77

3496

Tempit® Non-Contact Infrared Measurement Device

Model IRT-16

- Engineered to provide instant, superior accuracy and consistency in surface temperature measurement for a wide range of applications
- Lightweight and compact design
- Laser pointer with 16:1 distance to spot ratio
- 4 Digit blacklit dual display
- °C or °F selectable readout
- Min/Max/Ave and differential temperature mode available
- Built-in jack for K-type thermocouple probe to allow direct contact measurement



Type	Temperature Range - Infrared	Order No.	Regular Price	SALE
IRT-16 Infrared Thermometer	-76°F(-60°C) to 1157°F(625°C)	LH5224200	301.68	211.17
IRT-16 Infrared Thermometer NIST Certified	-76°F(-60°C) to 1157°F(625°C)	LH5224201	679.04	475.32

3996

RUST-OLEUM V2100 Enamel Spray Paint-High Performance

- Tough, professional finish-superior resistance to chipping, cracking and peeling
- One-coat coverage, long-lasting color and gloss
- High-output tip covers 50% faster; dries in only 20 minutes to touch
- Withstands heat to 200°F



Color	Manufacturer No	Order No.	Regular Price	SALE
Silver Aluminum	V2115838	RU1010035	17.29	11.23
Yellow Safety	V2143838	RU1010080	17.29	11.23
Black	V2178838	RU1010130	17.29	11.23
Black	V2179838	RU1010135	17.29	11.23
White	V2192838	RU1010165	17.29	11.23

28634

LPS TriFree Brake Cleaner

- Heavy-duty performance
- Instant degreasing action, no residue
- Improves brake performance
- Does not contain chlorinated solvents
- Helps stop disc brake squeal
- Fast evaporation, powerful jet spray
- Compliant to California VOC regulations



Size	Order No.	Regular Price	SALE
15 oz	LJ6003620	23.43	17.57

23672

ABRASIVES



Fast Cut Stationary Saw Wheels

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



Diameter	Thickness	Arbor Hole	Specification	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
12"	1/8"	1"	A24-RBF	5100	10	MG9070105	6.77	5.92
14"	1/8"	5/8"	A24-QBF	4400	10	MG9036233	7.08	6.19
16"	5/32"	1"	A24-RBF	3820	10	MG9070106	20.29	17.73
20"	5/32"	1"	A24-RBF	3100	10	MG9070108	30.30	26.47
20"	3/16"	1"	A24-RBF	3100	10	MG9070109	34.14	29.83
20"	3/16"	1"	A24-RBF	3100	10	MG9070147	39.21	34.26

215



Zip One Aluminum Oxide Type 1

Cut Off Wheel

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



Diameter	Thickness	Arbor Hole	Grit	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
4 1/2"	1/32"	7/8"	60	13,000	25	WS0111T542	5.36	4.16

710



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



Diameter	Thickness	Specification	Maximum RPM	Standard Pack	5/8"-11			7/8"		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	1/4"	A24R	13,000	10	MK5157120	5.27	5.15	MK5157121	3.10	3.03
5"	1/4"	A24R	12,200	10	MK5157122	6.46	6.30	MK5157123	4.40	4.29
6"	1/4"	A24R	10,200	10	MK5157128	8.20	7.99	MK5157129	5.16	5.04
7"	1/4"	A24R	8,500	10	MK5157124	8.93	8.71	MK5157125	6.27	6.12
9"	1/4"	A24R	6,600	10	MK5157126	11.18	10.90	MK5157127	9.03	8.80

21977



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	Thickness	Arbor Hole	Specification	Order No.	Regular Price	SALE
4 1/2"	.045"	7/8"	A36-TBF	MG9035514	2.09	1.82
6"	.045"	7/8"	A36-TBF	MG9035517	2.64	2.30
4 1/2"	.035"	7/8"	A60-TB Flex	MG9045010	2.07	1.80
6"	.040"	7/8"	A60-TB Flex	MG9045012	2.67	2.33

22862



Super Quickie Cut Reinforced Cut-Off

Wheels

Type 1 & Type 27

#1 Wheel choice for steel applications.



Diameter	Thickness	Arbor Hole	Maximum RPM	Specification	Standard Pack	Type 1			Type 27		
						Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
4 1/2"	.045"	7/8"	13300	A60-TBF	50	MG9045102	2.74	2.40	MG9045103	2.69	2.35

22873



Small Diameter Reinforced Cut Off

Wheels

BlueFire- Zirconia alumina and aluminum oxide blend

- Up to 20% improvement over previous zirconia products oxide grain blend
- 3 times the life of aluminum oxide wheels
- Ideal for stainless steel and carbon steel applications
- Excellent performance to price ratio lowers total cutting costs



Gemini- Quality aluminum oxide

- Good choice for steel and ferrous metals
- Consistent performance at a competitive price

Diameter	Thickness	Arbor Hole	Maximum RPM	Standard Pack	Aluminum Oxide			Zirconia Alumina		
					Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
3"	0.035"	3/8"	25,465	25	MH60030010628	3.21	2.10	MH60030043174	5.20	3.09
3"	1/16"	3/8"	25,465	25	MH60030010647	3.16	2.33	MH60030043175	5.35	3.17
4"	0.035"	3/8"	19,100	25	MH60040010630	4.93	3.62	MH60040043173	7.16	4.24
4"	1/16"	3/8"	19,100	25	MH60040010655	4.34	3.18	MH60040043171	7.16	4.24

24126



Light Grind & Cut-Off Wheels-Zirconia - Type 1

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



Diameter	Thickness	Arbor Hole	Grit	Order No.	Regular Price	SALE
3"	1/8"	1/4"	46	SP010301252146Z	3.81	3.33
3"	1/8"	3/8"	46	SP010301253146Z	3.76	3.29
4"	1/8"	1/4"	36	SP010401252136Z	8.25	7.21
4"	1/8"	3/8"	36	SP010401253136Z	4.42	3.86

25163



Small Diameter Thin Cut-Off

Wheels - Ceramic - Type 1

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



Diameter	Thickness	Arbor Hole	Maximum RPM	Specification	Order No.	Regular Price	SALE
2"	.060"	1/4"	30,550	#707	SP010200602160C	4.07	3.56
2"	.060"	3/8"	30,550	#707	SP010200603160C	4.07	3.56
3"	.060"	1/4"	25,000	#707	SP010300602160C	6.97	6.09
3"	.060"	3/8"	25,000	#707	SP010300603160C	6.97	6.09
4"	.060"	3/8"	25,000	#707	SP010400603160C	5.15	4.50

25174

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

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



Diameter	Thickness	Arbor Hole	Grit	Order No.	Regular Price	SALE
2"	.060"	1/4"	46	SP010200602146Z	3.41	2.98
2"	.060"	1/4"	60	SP010200602160Z	3.41	2.98
2"	.060"	3/8"	46	SP010200603146Z	3.41	2.98
2"	.060"	3/8"	60	SP010200603160Z	3.41	2.98
4"	.060"	3/8"	46	SP010400603146Z	5.20	4.54
4"	.060"	3/8"	60	SP010400603160Z	3.76	3.29
4"	1/16"	1/4"	46	SP010400622146Z	3.02	2.64
4"	1/16"	3/8"	46	SP010400623146Z	3.31	2.89

25176

CGW Rubber Back-Up Pads

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



Air Cooled Spiral Pattern					
Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
4 1/2"	5/8"-11	Medium	MG9048220	28.05	24.51
5"	5/8"-11	Medium	MG9048221	37.22	32.53
7"	5/8"-11	Medium	MG9048222	49.41	43.17
9"	5/8"-11	Medium	MG9048239	56.96	49.78
7"	5/8"-11	Flexible	MG9049510	49.41	43.17
7"	5/8"-11	Rigid	MG9049511	49.41	43.17
4 1/2"	7/8	Medium	MG9049521	35.58	31.09

Air Cooled Smooth Face					
Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
7"	5/8"-11	Medium	MG9049506	40.15	35.08
4 1/2"	5/8"-11	Medium	MG9049508	35.58	31.09

Roll-On					
Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
2"	1/4"	Medium	MG9059732	10.04	8.77
3"	1/4"	Medium	MG9059734	11.47	10.03

Diameter	Arbor Hole	Density	Order No.	Regular Price	SALE
2"	1/4"	Medium	MG9059733	10.56	9.22
3"	1/4"	Medium	MG9059735	12.37	10.80

22870

SUPERIOR Quick Change Disc Holders

- Roll-On (TR) features nylon screw type thread
- Turn-On (TS) features metal to metal quick change system



Diameter	Order No.	Regular Price	SALE
3"	MM5964113	17.15	14.81
2"	MM5964198	13.58	11.73
2"	MM5964922	13.60	11.93
3"	MM5964949	17.17	15.75

25121

CGW Polishing Compound

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



Grit	Order No.	Regular Price	SALE
1200	MG9049652	10.35	9.04

230

NORTON Shop Rolls

- Coated abrasive rolls are designed for fast and easy sanding of various surfaces and can be torn to exact lengths as needed
- Handy rolls are packaged in a protective, convenient dispenser which eliminates costly waste and permits neat, easy storage
- Length - 50 yds



Grit	Order No.	Width - 1"		Width - 1-1/2"		Width - 2"			
		Reg. Price	SALE	Reg. Price	SALE	Reg. Price	SALE		
P50	MH61R0127728	64.27	61.78	MH61R0127730	89.95	86.45	MH61R0227732	114.47	110.03
P60	MH61R0127729	60.15	57.81	MH61R0127731	84.00	80.73	MH61R0227733	106.90	102.75
P80	MH61R0126276	51.01	49.03	MH61R0126288	71.34	68.56	MH61R0226299	90.76	87.24
P100	MH61R0126275	49.24	47.33	MH61R0126287	69.01	66.32	MH61R0226298	87.73	84.31
P120	MH61R0126274	49.24	47.33	MH61R0126286	69.01	66.32	MH61R0226297	87.73	84.31
P150	MH61R0126273	49.24	47.33	MH61R0126285	69.01	66.32	MH61R0226296	87.73	84.31
P180	MH61R0126272	49.24	47.33	MH61R0126284	69.01	66.32	MH61R0226295	87.73	84.31
P220	MH61R0126271	49.24	47.33	MH61R0126283	69.01	66.32	MH61R0226294	87.73	84.31
P240	MH61R0126270	49.24	47.33	MH61R0126282	69.01	66.32	MH61R0226293	87.73	84.31
P280	MH61R0126269	49.24	47.33	MH61R0126281	69.01	66.32	MH61R0226292	87.73	84.31
P320	MH61R0126268	49.24	47.33	MH61R0126280	69.01	66.32	MH61R0226291	87.73	84.31
P400	MH61R0126267	49.24	47.33	MH61R0126279	69.01	66.32	MH61R0226290	87.73	84.31

24159

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



Diameter	Maximum RPM	Grade	Color	Standard Pack	Order No.	Regular Price	SALE
1"	3000	Medium	Maroon	200	TM2115392	1.29	0.97
1"	3000	Very Fine	Teal	200	TM2115391	1.29	0.97
1 1/2"	3000	Coarse	Brown	50	TM2108764	1.31	1.01
1 1/2"	3000	Medium	Maroon	50	TM2108765	1.31	1.01
1 1/2"	3000	Very Fine	Teal	50	TM2108766	1.31	1.01
2"	2500	Coarse	Brown	50	TM2105528	1.90	1.46
2"	2500	Medium	Maroon	50	TM2105527	1.90	1.46
2"	2500	Very Fine	Teal	50	TM2105523	1.90	1.46
3"	1800	Coarse	Brown	25	TM2105532	3.62	2.77
3"	1800	Medium	Maroon	25	TM2105531	3.62	2.77
3"	1800	Very Fine	Teal	25	TM2105530	3.62	2.77
4"	1200	Coarse	Brown	4	TM2312954	5.25	4.00

Holder: MM59-64922

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SURF PRO 5" & 6" PSA Discs - Aluminum Oxide

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



Diameter	Grit	Order No.	Regular Price	SALE
5"	36	SP11PSAD05036A	1.05	0.92
5"	40	SP11PSAD05040A	3.05	2.67
5"	60	SP11PSAD05060A	0.87	0.76
5"	80	SP11PSAD05080A	0.88	0.76
5"	100	SP11PSAD05100A	0.73	0.64
5"	120	SP11PSAD05120A	0.82	0.71
6"	36	SP11PSAD06036A	1.49	1.30
6"	40	SP11PSAD06040A	1.29	1.13
6"	60	SP11PSAD06060A	1.18	1.03
6"	80	SP11PSAD06080A	1.13	0.99
6"	100	SP11PSAD06100A	1.08	0.94
6"	120	SP11PSAD06120A	1.08	0.94

25146

ABRASIVES

3M PSA Discs

348D

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



Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
2"	50	50	TM1120911	1.17	0.87
2"	60	50	TM1120910	1.15	0.86
2"	80	50	TM1120909	1.09	0.81
2"	P120	50	TM1120907	1.03	0.76
3"	40	50	TM1101335	1.40	1.05
3"	50	50	TM1101334	1.36	1.01
3"	60	50	TM1101333	1.31	0.98
3"	80	50	TM1101332	1.25	0.93
3"	P100	50	TM1101331	1.21	0.91
3"	P120	50	TM1101330	1.21	0.91
5"	36	50	TM1120891	2.08	1.54
5"	40	50	TM1120890	1.97	1.47
5"	50	50	TM1120889	1.88	1.39
5"	60	50	TM1120888	1.79	1.34
5"	80	50	TM1120887	1.69	1.27
5"	P100	50	TM1120886	1.62	1.21
5"	P120	50	TM1120885	1.62	1.21
5"	P150	50	TM1120884	1.62	1.21
5"	P180	50	TM1120883	1.62	1.21
5"	P240	50	TM1120881	1.62	1.21
6"	50	50	TM1120879	2.78	2.07
6"	60	50	TM1120878	2.61	1.95
6"	80	50	TM1120877	2.48	1.85
6"	P100	50	TM1120876	2.32	1.72
6"	P120	50	TM1121497	2.32	1.72
8"	36	50	TM1120874	5.52	4.10
8"	40	50	TM1120873	5.24	3.90
8"	60	50	TM1120871	4.77	3.54
8"	80	50	TM1120870	4.51	3.36
8"	P120	50	TM1120868	4.31	3.22
12"	36	10	TM1188906	12.86	9.57
12"	40	10	TM1188905	12.14	9.04
12"	60	10	TM1188903	10.77	8.01
12"	80	10	TM1188902	10.19	7.57
12"	P100	10	TM1188901	9.60	7.13
16"	36	10	TM1188890	23.64	17.58
16"	60	10	TM1188887	19.87	14.79
16"	80	10	TM1188886	18.73	13.94
18"	36	10	TM1188882	29.98	22.30
18"	60	10	TM1188880	25.17	18.72
20"	36	10	TM1188878	36.42	27.09
20"	40	10	TM1188877	34.41	25.60
20"	50	10	TM1188876	32.48	24.15
20"	60	10	TM1188875	30.64	22.77
20"	80	10	TM1188874	28.86	21.46
24"	36	10	TM1120802	52.09	38.75
24"	40	10	TM1120801	48.65	36.19
24"	80	10	TM1120798	40.03	29.77

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3M Stikit™ Disc Rolls 236U

- Aluminum Oxide - C weight paper backing
- Discs for paint, primer, wood, metal, plastic and fiber-glass
- 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	108.37	80.61	
P120	TM1155562	100.04	74.41	
P320	TM1155567	100.04	74.41	

Diameter - 5"				
Grit	Order No.	Regular Price	SALE	
P150	TM1155543	70.83	52.68	
P120	TM1186490	70.83	52.68	
P180	TM1186492	70.83	52.68	
P320	TM1186495	70.83	52.69	

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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	0.86	0.67
8"	120/120	100	MG9452932	0.54	0.43
8"	180/180	100	MG9452933	0.66	0.51
8"	240/240	100	MG9452934	0.44	0.34
8"	320/400	100	MG9452935	0.44	0.34
8"	400/800	100	MG9452936	0.44	0.34
8"	600/1200	100	MG9452937	0.44	0.34
12"	60/60	100	MG9452938	1.91	1.50
12"	120/120	100	MG9452939	1.11	0.87
12"	180/180	100	MG9452940	0.98	0.75
12"	240/240	100	MG9452941	0.90	0.71
12"	320/400	100	MG9452942	0.90	0.71
12"	400/800	100	MG9452943	0.90	0.71
12"	600/1200	100	MG9452944	0.90	0.71

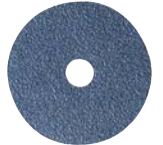
PSA					
Diameter	Grit	Standard Pack	Order No.	Regular Price	SALE
8"	60/P60	100	MG9452945	1.09	0.85
8"	120/P120	100	MG9452946	0.77	0.59
8"	180/P180	100	MG9452947	0.70	0.55
8"	240/P240	100	MG9452948	0.66	0.51
8"	320/P400	100	MG9452949	0.66	0.51
8"	400/P800	100	MG9452950	0.66	0.51
8"	600/P1200	100	MG9452951	0.66	0.51
12"	60/P60	100	MG9452952	2.41	1.88
12"	120/P120	100	MG9452953	2.39	1.86
12"	180/P180	100	MG9452954	1.43	1.13
12"	240/P240	100	MG9452955	1.45	1.14
12"	320/P400	100	MG9452956	1.33	1.04
12"	400/P800	100	MG9452957	1.33	1.04
12"	600/P1200	100	MG9452958	1.33	1.04

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SURF PRO SGZ-SG Ceramic & Zirconia

Resin Fiber Discs

Applicable Material: Stainless Steel, Titanium & Super Alloys, Mild Carbon Steel, Cold Rolled Steel, Cast Iron



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016SGZ	1.59	1.39
4 1/2"	7/8"	24	SP11RF457024SGZ	1.42	1.24
4 1/2"	7/8"	36	SP11RF457036SGZ	1.41	1.23
4 1/2"	7/8"	50	SP11RF457050SGZ	1.21	1.06
4 1/2"	7/8"	60	SP11RF457060SGZ	1.08	0.94
4 1/2"	7/8"	80	SP11RF457080SGZ	1.01	0.88
4 1/2"	7/8"	100	SP11RF457100SGZ	0.97	0.85
4 1/2"	7/8"	120	SP11RF457120SGZ	0.93	0.81
5"	7/8"	16	SP11RF057016SGZ	2.04	1.78
5"	7/8"	24	SP11RF057024SGZ	1.82	1.59
5"	7/8"	36	SP11RF057036SGZ	1.68	1.47
5"	7/8"	50	SP11RF057050SGZ	1.56	1.36
5"	7/8"	60	SP11RF057060SGZ	1.38	1.21
5"	7/8"	80	SP11RF057080SGZ	1.29	1.13
5"	7/8"	100	SP11RF057100SGZ	1.19	1.04
5"	7/8"	120	SP11RF057120SGZ	1.16	1.01
7"	7/8"	16	SP11RF077016SGZ	3.83	3.35
7"	7/8"	24	SP11RF077024SGZ	3.38	2.95
7"	7/8"	36	SP11RF077036SGZ	3.08	2.69
7"	7/8"	50	SP11RF077050SGZ	2.81	2.46
7"	7/8"	60	SP11RF077060SGZ	2.48	2.17
7"	7/8"	80	SP11RF077080SGZ	2.31	2.02
7"	7/8"	100	SP11RF077100SGZ	2.18	1.90
7"	7/8"	120	SP11RF077120SGZ	2.12	1.85

28693

SUPERIOR ABRASIVES Ceramic with Grinding Aid Quick Change Discs

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



Diameter - 2"						
Type S				Type R		
Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6440311	1.10	0.95	MM6440329	1.10	0.95
50	MM6440313	1.01	0.88	MM6440331	1.01	0.88
60	MM6440314	0.96	0.83	MM6440332	0.96	0.83
80	MM6440315	0.93	0.81	MM6440333	0.93	0.81
120	MM6440316	0.91	0.78	MM6440334	0.91	0.78

Diameter - 3"						
Type S				Type R		
Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	MM6440317	1.50	1.31	MM6440335	1.50	1.31
50	MM6440319	1.39	1.18	MM6440337	1.39	1.18
60	MM6440320	1.29	1.13	MM6440338	1.29	1.13
80	MM6440321	1.25	1.10	MM6440339	1.25	1.10
120	MM6440322	1.25	1.11	MM6440340	1.25	1.10

619

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	1.05	0.91	MG9048012	0.78	0.69
7/8"	50	MG9048104	1.07	0.94	MG9048014	0.76	0.66
7/8"	60	MG9048105	0.97	0.85	MG9048015	0.71	0.61
7/8"	80	MG9048106	0.97	0.84	MG9048016	0.68	0.60
7/8"	100	-	-	-	MG9048017	0.68	0.60
7/8"	120	-	-	-	MG9048018	0.68	0.60

Diameter - 5"							
Zirconia Alumina				Aluminum Oxide			
Arbor Hole	Grit	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
7/8"	16	-	-	-	MG9048020	1.12	0.99
7/8"	24	MG9048111	1.28	1.12	MG9048021	0.78	0.69
7/8"	36	MG9048112	1.21	1.06	MG9048022	0.87	0.75
7/8"	50	MG9048114	1.12	0.98	MG9048024	0.81	0.70
7/8"	60	MG9048115	1.02	0.89	MG9048025	0.76	0.66
7/8"	80	MG9048116	0.99	0.86	MG9048026	0.73	0.64

22869

WEILER 4-1/2" Zirconia Alumina Wolverine Flap Discs

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



Arbor Hole - 7/8"				Arbor Hole - 5/8"-11			
Grit	Maximum RPM	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
36	13,000	MK5131343	4.62	4.52	-	-	-
40	13,000	MK5131387	6.57	6.39	MK5131390	7.92	7.71
60	13,000	MK5131345	4.62	4.52	MK5131409	5.86	5.72
60	13,000	MK5131388	6.57	5.80	MK5131410	5.86	5.72
80	13,000	MK5131389	6.57	6.39	-	-	-

804

SURF PRO Velcro Backed Resin Paper Abrasive Discs

- Aluminum oxide resin free cut treated for metal, wood and plastic
- Easy press-on/peel-off - saves time
- Hook and loop backing adds strength, reducing tearing and run cooler for longer life
- Holding power not affected by dirt, dust, heat, humidity
- We also offer the vacuum hole paper disc and conversion hardware for the clean air vacuum sanders



Order No.	Regular Price	SALE
SP11VBD500400AE	1.37	1.20
SP11VBD500600AE	1.21	1.06
SP11VBD500800AC	1.06	0.93
SP11VBD500800AE	1.14	1.00
SP11VBD500808AC	0.91	0.80
SP11VBD501000AC	0.82	0.72
SP11VBD501008AC	1.02	0.89
SP11VBD501200AC	1.03	0.89
SP11VBD501208AC	1.02	0.89
SP11VBD501500AC	1.02	0.89
SP11VBD501508AC	1.02	0.89
SP11VBD501800AC	0.82	0.72
SP11VBD501808AC	0.82	0.72
SP11VBD502200AC	0.90	0.77
SP11VBD502208AC	1.03	0.89
SP11VBD502400AC	0.82	0.72
SP11VBD502408AC	0.82	0.72
SP11VBD502800AC	0.82	0.72
SP11VBD502808AC	0.82	0.72
SP11VBD503200AC	1.02	0.89
SP11VBD503208AC	0.82	0.72
SP11VBD504000AC	0.82	0.72
SP11VBD504008AC	0.82	0.72
SP11VBD600400AE	1.85	1.62
SP11VBD600600AE	1.68	1.47
SP11VBD600800AC	1.21	1.06
SP11VBD600800AE	1.59	1.39
SP11VBD600808AC	1.21	1.06
SP11VBD601000AC	1.26	1.11
SP11VBD601008AC	1.00	0.87
SP11VBD601200AC	1.00	0.87
SP11VBD601208AC	0.92	0.80
SP11VBD601500AC	1.09	0.96
SP11VBD601508AC	1.26	1.11
SP11VBD601800AC	1.00	0.87
SP11VBD601808AC	1.00	0.87
SP11VBD602200AC	1.00	0.87
SP11VBD602208AC	1.26	1.11
SP11VBD602400AC	1.00	0.87
SP11VBD602408AC	1.00	0.87
SP11VBD602800AC	1.00	0.87
SP11VBD602808AC	2.81	2.46
SP11VBD603200AC	1.00	0.87
SP11VBD603208AC	1.00	0.87
SP11VBD604000AC	1.00	0.87
SP11VBD604008AC	1.00	0.87

25182

SURF PRO 4-1/2" Ceramic Flap Discs

- Best choice for grinding stainless steel, titanium, inconel, and other hard metals.
- Self-sharpening grain creates a "cool grinding surface" for longer disc life and reduced production cost.
- 13300 Max. RPM



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	36	SP11FD45A27036C	11.33	9.90
4 1/2"	7/8"	40	SP11FD45A27040C	10.51	9.18
4 1/2"	7/8"	60	SP11FD45A27060C	8.88	7.76
4 1/2"	7/8"	80	SP11FD45A27080C	8.25	7.21
4 1/2"	5/8"-11	36	SP11FD45H27036C	11.71	10.23
4 1/2"	5/8"-11	40	SP11FD45H27040C	11.71	10.23
4 1/2"	5/8"-11	60	SP11FD45H27060C	10.98	9.59
4 1/2"	5/8"-11	80	SP11FD45H27080C	10.22	8.93

25134

ABRASIVES

SURF PRO EAO-Premium Aluminum Oxide Resin Fiber Discs

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



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016EAO	0.96	0.84
4 1/2"	7/8"	24	SP11RF457024EAO	0.90	0.79
4 1/2"	7/8"	36	SP11RF457036EAO	0.83	0.73
4 1/2"	7/8"	50	SP11RF457050EAO	0.76	0.66
4 1/2"	7/8"	60	SP11RF457060EAO	0.78	0.68
4 1/2"	7/8"	80	SP11RF457080EAO	0.71	0.62
4 1/2"	7/8"	100	SP11RF457100EAO	0.70	0.61
4 1/2"	7/8"	120	SP11RF457120EAO	0.70	0.61
5"	7/8"	16	SP11RF057016EAO	1.05	0.92
5"	7/8"	24	SP11RF057024EAO	1.05	0.92
5"	7/8"	36	SP11RF057036EAO	1.14	1.02
5"	7/8"	50	SP11RF057050EAO	0.96	0.84
5"	7/8"	60	SP11RF057060EAO	1.05	0.92
5"	7/8"	80	SP11RF057080EAO	0.90	0.79
5"	7/8"	100	SP11RF057100EAO	0.87	0.76
5"	7/8"	120	SP11RF057120EAO	0.87	0.76
7"	7/8"	16	SP11RF077016EAO	1.98	1.73
7"	7/8"	24	SP11RF077024EAO	1.88	1.64
7"	7/8"	36	SP11RF077036EAO	1.74	1.52
7"	7/8"	50	SP11RF077050EAO	1.71	1.49
7"	7/8"	60	SP11RF077060EAO	1.62	1.42
7"	7/8"	80	SP11RF077080EAO	1.56	1.36
7"	7/8"	100	SP11RF077100EAO	1.52	1.33
7"	7/8"	120	SP11RF077120EAO	1.52	1.33

28711

SURF PRO PSC-Silicon Carbide Resin Fiber Discs

- **Applicable Material:** Concrete, Stone, Granite, Marble & Ceramic Tile, Fiberglass & Composites, Cast Iron



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016PSC	0.96	0.84
4 1/2"	7/8"	24	SP11RF457024PSC	0.87	0.76
4 1/2"	7/8"	36	SP11RF457036PSC	0.83	0.73
4 1/2"	7/8"	50	SP11RF457050PSC	0.80	0.70
4 1/2"	7/8"	60	SP11RF457060PSC	0.80	0.70
4 1/2"	7/8"	80	SP11RF457080PSC	0.74	0.65
4 1/2"	7/8"	100	SP11RF457100PSC	0.78	0.68
4 1/2"	7/8"	120	SP11RF457120PSC	0.78	0.68
5"	7/8"	16	SP11RF057016PSC	1.11	0.97
5"	7/8"	24	SP11RF057024PSC	1.02	0.89
5"	7/8"	36	SP11RF057036PSC	0.99	0.87
5"	7/8"	50	SP11RF057050PSC	0.96	0.84
5"	7/8"	60	SP11RF057060PSC	0.93	0.81
5"	7/8"	80	SP11RF057080PSC	0.93	0.81
5"	7/8"	100	SP11RF057100PSC	0.90	0.79
5"	7/8"	120	SP11RF057120PSC	0.90	0.79
7"	7/8"	16	SP11RF077016PSC	1.98	1.73
7"	7/8"	24	SP11RF077024PSC	2.09	1.83
7"	7/8"	36	SP11RF077036PSC	1.97	1.76
7"	7/8"	50	SP11RF077050PSC	1.68	1.47
7"	7/8"	60	SP11RF077060PSC	1.62	1.42
7"	7/8"	80	SP11RF077080PSC	1.59	1.39
7"	7/8"	100	SP11RF077100PSC	1.59	1.39
7"	7/8"	120	SP11RF077120PSC	1.56	1.36

28714

CGW Felt / Cotton Buffing Flap Discs - Type 27

- Flexible felt/wool disc easily works with contoured surfaces for consistent polishing action
- Fast mirror finishes
- Use on stainless steel, aluminum, sheet metal mild steel and brass
- CGW White (1200 Grit) Compound for aluminum, steel, and stainless steel
- **MUST USE WITH BUFFING COMPOUND**



Diameter	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
4-1/2"	7/8"	13,300	MG9049698	19.00	16.60
5"	7/8"	12,200	MG9049699	22.04	19.26

216

SURF PRO AOC- Premium Ceramic & Aluminum Oxide Resin Fiber Discs

- **Applicable Material:** Stainless Steel, Titanium & Super Alloys, Mild Carbon Steel, Cold Rolled Steel, Cast Iron



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016AOC	1.71	1.49
4 1/2"	7/8"	24	SP11RF457024AOC	1.56	1.36
4 1/2"	7/8"	36	SP11RF457036AOC	1.44	1.26
4 1/2"	7/8"	50	SP11RF457050AOC	1.27	1.11
4 1/2"	7/8"	60	SP11RF457060AOC	1.27	1.11
4 1/2"	7/8"	80	SP11RF457080AOC	1.12	0.98
4 1/2"	7/8"	100	SP11RF457100AOC	1.07	0.93
4 1/2"	7/8"	120	SP11RF457120AOC	1.01	0.88
5"	7/8"	16	SP11RF057016AOC	2.04	1.78
5"	7/8"	24	SP11RF057024AOC	1.98	1.73
5"	7/8"	36	SP11RF057036AOC	2.15	1.88
5"	7/8"	50	SP11RF057050AOC	1.65	1.44
5"	7/8"	60	SP11RF057060AOC	1.62	1.42
5"	7/8"	80	SP11RF057080AOC	1.44	1.26
5"	7/8"	100	SP11RF057100AOC	1.38	1.21
5"	7/8"	120	SP11RF057120AOC	1.29	1.13
7"	7/8"	16	SP11RF077016AOC	4.25	3.71
7"	7/8"	24	SP11RF077024AOC	3.69	3.22
7"	7/8"	36	SP11RF077036AOC	3.41	2.98
7"	7/8"	50	SP11RF077050AOC	3.00	2.62
7"	7/8"	60	SP11RF077060AOC	2.97	2.60
7"	7/8"	80	SP11RF077080AOC	2.58	2.25
7"	7/8"	100	SP11RF077100AOC	2.42	2.11
7"	7/8"	120	SP11RF077120AOC	2.31	2.02

28712

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)

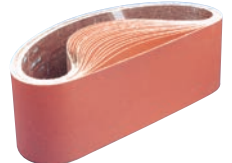


Color	Grade	Order No.	Regular Price	SALE
Light Gray	Ultra Fine	TM2204028	3.34	2.12
Maroon	Very Fine	TM2204029	2.41	2.12
Tan	Medium	TM2218451	444.83	198.62
Tan	Coarse	TM2265055	6.49	4.11
Gray	Medium	TM2265056	4.37	2.77

22601

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	3.27	2.60
1"	42"	80	TM1001451	2.96	2.36
1"	42"	100	TM1001452	2.78	2.22
1"	42"	120	TM1001453	2.78	2.22
6"	48"	60	TM1001457	14.45	11.50
6"	48"	80	TM1010454	13.12	10.46
6"	48"	100	TM1010455	12.29	9.79
6"	48"	120	TM1010456	12.29	9.79
2"	72"	180	TM1026309	5.28	4.19
2"	72"	60	TM1026316	6.19	4.94
2"	72"	80	TM1033067	5.63	4.48
2"	72"	240	TM1081752	5.28	4.19

22576

SURF PRO CGT-100% SG Ceramic Resin
Fiber Discs

- **Applicable Material:** Stainless Steel, Titanium & Super Alloys, Mild Carbon Steel, Cold Rolled Steel



Diameter	Arbor Hole	Grit	Order No.	Regular Price	SALE
4 1/2"	7/8"	16	SP11RF457016CGT	2.41	2.11
4 1/2"	7/8"	24	SP11RF457024CGT	2.19	1.91
4 1/2"	7/8"	36	SP11RF457036CGT	2.12	1.85
4 1/2"	7/8"	50	SP11RF457050CGT	1.75	1.53
4 1/2"	7/8"	60	SP11RF457060CGT	1.53	1.34
4 1/2"	7/8"	80	SP11RF457080CGT	1.41	1.23
4 1/2"	7/8"	100	SP11RF457100CGT	1.29	1.13
4 1/2"	7/8"	120	SP11RF457120CGT	1.10	0.96
5"	7/8"	16	SP11RF057016CGT	2.92	2.55
5"	7/8"	24	SP11RF057024CGT	2.84	2.48
5"	7/8"	36	SP11RF057036CGT	2.84	2.48
5"	7/8"	50	SP11RF057050CGT	2.31	2.02
5"	7/8"	60	SP11RF057060CGT	1.98	1.73
5"	7/8"	80	SP11RF057080CGT	2.09	1.85
5"	7/8"	100	SP11RF057100CGT	1.68	1.47
5"	7/8"	120	SP11RF057120CGT	1.41	1.23
7"	7/8"	16	SP11RF077016CGT	5.95	5.20
7"	7/8"	24	SP11RF077024CGT	5.45	4.76
7"	7/8"	36	SP11RF077036CGT	4.82	4.21
7"	7/8"	50	SP11RF077050CGT	4.28	3.74
7"	7/8"	60	SP11RF077060CGT	3.69	3.22
7"	7/8"	80	SP11RF077080CGT	3.38	2.95
7"	7/8"	100	SP11RF077100CGT	3.08	2.69
7"	7/8"	120	SP11RF077120CGT	2.54	2.22

28713

NORTON Silicon Carbide Bench Wheels

Features:

- These wheels cover a broad range of general bench grinding jobs
- Each wheel contains a free nested bushing
- For carbide and non-ferrous material

Silicon Carbide Grit Range:

- Medium - 60 grit for roughing of carbide tools
- Fine - 80 grit for all purpose grinding of carbide tools



Diameter - 6", Width - 1/2", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	MH60060036571	52.51	40.79
Medium Grit	4,140	1	MH60060036572	52.51	40.79
Fine Grit	4,140	1	MH60060036573	52.51	40.79

Diameter - 6", Width - 1", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	MH60060037187	65.07	55.60
Medium Grit	4,140	1	MH60060037193	65.07	55.60
Fine Grit	4,140	1	MH60060037194	65.07	55.60

Diameter - 6", Width - 3/4", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	4,140	1	MH60070042300	56.28	48.08
Medium Grit	4,140	1	MH60060037191	56.28	48.08
Fine Grit	4,140	1	MH60060037192	56.28	48.08

Diameter - 7", Width - 1", Arbor Hole - 1"					
Grade	Maximum RPM	Standard Pack	Order No.	Regular Price	SALE
Medium Grit	3,600	1	MH60070042300	79.51	67.92
Medium Grit	3,600	1	MH60070042301	79.51	67.92
Fine Grit	3,600	1	MH60070042302	79.51	67.92

24160

SURF PRO Economy Diamond Wheel Dressers

- For dressing vitrified grinding wheels



Diamond Carat Size	Shank Diameter - 3/8", Shank Length - 3"			Shank Diameter - 7/16", Shank Length - 3"		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1/4"	MN45ED025A	6.92	5.33	MN45ED025B	6.92	5.33
1/2"	MN45ED050A	11.37	8.67	MN45ED050B	11.37	8.67
1"	MN45ED100A	22.28	17.30	MN45ED100B	22.28	17.30
1-1/2"	MN45ED150A	34.94	26.97	MN45ED150B	34.94	26.97
2"	MN45ED200A	43.15	33.65	MN45ED200B	43.15	33.65

674

3M Cubitron II Type Q Depressed Center Grinding Wheels

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



Diameter	Width	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
4"	1/4"	3/8"	15,300	TM0178469	14.70	11.71
4"	1/4"	5/8"	15,300	TM0178468	14.70	11.71
4 1/2"	1/4"	5/8"	13,300	TM0164320	17.24	13.74
4 1/2"	1/4"	5/8"-11	13,300	TM0187397	7.58	6.06
4 1/2"	1/4"	5/8"-11	13,300	TM0187453	4.76	3.80
4 1/2"	1/4"	7/8"	13,300	TM0178466	15.27	12.16
5"	1/4"	5/8"	12,250	TM0164317	19.50	15.54
5"	1/4"	5/8"-11	12,250	TM0187446	8.63	6.88
5"	1/4"	7/8"	12,250	TM0178467	17.62	14.03
5"	1/4"	7/8"	12,250	TM0187454	5.53	4.39
6"	1/4"	5/8"	10,200	TM0164318	23.74	18.91
7"	1/4"	5/8"	8,500	TM0164319	25.23	20.09
7"	1/4"	5/8"-11	8,500	TM0187448	12.25	9.75
7"	1/4"	5/8"-11	8,500	TM0187451	10.54	8.40
7"	1/4"	7/8"	10,200	TM0164314	21.48	17.11
7"	1/4"	7/8"	8,500	TM0164315	22.53	17.94
9"	1/4"	5/8"	6,650	TM0187153	33.14	26.40
9"	1/4"	5/8"-11	6,650	TM0187449	17.99	14.32
9"	1/4"	5/8"-11	6,650	TM0187452	15.90	12.67
9"	1/4"	7/8"	6,650	TM0164316	30.48	24.28

95

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

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



Diameter	Arbor Hole	Maximum RPM	Order No.	Regular Price	SALE
4 1/2"	5/8"-11	13,580	MH60D045070793	19.71	11.69
4 1/2"	7/8"	13,580	MH60D045070794	16.85	9.99
5"	5/8"-11	12,225	MH60D050070795	22.04	13.08
5"	7/8"	12,225	MH60D050070796	19.71	11.70
6"	5/8"-11	10,185	MH60D060070797	27.24	16.16
6"	7/8"	10,185	MH60D060070798	23.96	14.21
7"	5/8"-11	8,600	MH60D070070799	28.62	16.98
7"	7/8"	8,600	MH60D070070800	25.13	14.91

478

NORTON Single Point Diamond Dressing Tools

Features:

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



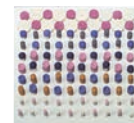
Model No	Shank Diameter	Shank Length	Maximum Compatible Wheel Diameter	Order No.	Regular Price	SALE
BC2M6	3/8"	2"	7"	MH63BC95000	74.87	63.97
BC2M7	7/16"	2"	7"	MH63BC95001	74.87	63.97
BC3M6	3/8"	2"	10"	MH63BC95002	83.21	71.09
BC3M7	7/16"	2"	10"	MH63BC95003	83.21	71.09
BC5M6	3/8"	2"	14"	MH63BC95004	99.13	84.69
BC5M7	7/16"	2"	14"	MH63BC95005	99.13	84.69

24162

Grier Mounted Point Kits

Tool Room Assortment

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



Spindle Diameter	Number of Pieces	Order No.	Regular Price	SALE
1/8"	100 Piece Assortment	ML50MP100	93.96	82.10
1/4"	50 Piece Assortment	ML50MP50	93.96	82.10

23264

PRM^{PRO} Air Cooled torches 150 & 125

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



150 Amp Air-cooled			
Type	Order No.	Regular Price	SALE
Torch	WE1017F	36.10	27.07
Torch with Valve	WE1017FV	37.91	28.43
Torch Modular Flex w/ Valve	WE1017FVMT	99.86	74.89

125 Amp Air-cooled			
Type	Order No.	Regular Price	SALE
Torch	WE109F	36.10	27.07
Torch with Valve	WE109FV	61.34	46.00

2906

PRM^{PRO} Carbons

Pointed or Jointed

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



Pointed				
Diameter	Length	Order No.	Regular Price	SALE
3/16"	12"	WE1022033003	18.31	13.73
1/4"	12"	WE1022043003	20.60	15.45
5/16"	12"	WE1022053003	25.17	18.87
3/8"	12"	WE1022063003	32.04	24.03

Jointed				
Diameter	Length	Order No.	Regular Price	SALE
3/8"	17"	WE1024064003	222.03	166.52
1/2"	17"	WE1024084003	272.38	204.28

2950

PRM^{PRO} Tungsten Electrodes

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



Size	Pure			2% Ceriated			1.5% Lanthanated			E3		
	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
1/16"	WE101167G	19.35	14.51	WE101167GC2	21.28	15.96	WE101167GL	20.26	15.19	WE101167000	17.81	13.35
3/32"	WE103327G	38.41	28.80	WE103327GC2	42.46	27.59	WE103327GL	40.56	30.42	WE103327000	36.27	27.20
1/8"	WE10187G	65.42	49.06	WE10187GC2	72.17	54.12	WE10187GL	68.73	51.54	WE10187000	62.60	46.95

2910

LINCOLN^{ELECTRIC} Fire Resistant Black Welding Sleeves

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



Color	Material	Order No.	Regular Price	SALE
Black	Cotton	LE01KH813	12.90	10.96

29101

HARRIS 7018 Mild Steel Electrodes

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



Diameter	Length	Container Type	Manufactur-erNo	Order No.	Regular Price	SALE
3/32"	14"	5 Lb Pack- age	7018505	HR7120240	5.58	4.18
1/8"	14"	5 Lb Pack- age	7018605	HR7120250	5.23	3.92
5/32"	12"	5 Lb Pack- age	7018705	HR7120260	5.23	3.92
3/32"	12"	10 Lb Package	70185010	HR7120270	5.23	3.92

2656

HARRIS 301AR/CD Shielding Gas Kit

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



Fuel Type	Flow Capac-ity	Max Inlet PSIG	Outlet Con- nec-tion	Manufactur-erNo	Order No.	Regular Price	SALE
Ar + Mixes	60	3000	5/8-18 RH (F)	4400229	HR7010100	159.34	103.57

2651

LINCOLN^{ELECTRIC} Black Cloth Welding Shirts

- Treated fabrics are cotton or cotton-blend fabrics that are treated with chemicals that form a permanent bond with the fabric that cannot be washed out when the recommended laundering instructions are followed
- Sleeve length varies by size from 31 in. to 34 in.
- Machine washable
- Features snap sleeves for form fitting cuffs



Size	Mate- rial	Khaki			Black		
		Order No.	Reg-ular Price	SALE	Order No.	Reg-ular Price	SALE
Medium	Cotton	LE01KH841M	53.53	45.50	LE01KH809M	53.53	45.50
Large	Cotton	LE01KH841L	53.53	45.50	LE01KH809L	53.53	45.50
X-Large	Cotton	LE01KH841XL	53.53	45.50	LE01KH809XL	53.53	45.50
2X-Large	Cotton	LE01KH841XXL	60.27	51.22	LE01KH809XXL	58.59	49.80

Pricing could change from the mfg please call for current pricing

28737

LINCOLN^{ELECTRIC} Leather Welding Gloves

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



Color	Material	Order No.	Regular Price	SALE
Black/Red	Leather	LE01KH643	15.68	13.32

29094

Lisle® Magnetic Soldering Clamp

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



Order No.	Regular Price	SALE
KN6555000	21.64	16.23

2763

SOLDER-IT INCORPORATED Workbench Torches/Heat Gun

- Automatic Piezo ignition
- Complete portability
- Comfortable rubber grip
- Separate controls for fuel and air
- Unparalleled safety features
- 4 Hours burn time per fill
- Removable safety stand included
- Shipped empty with no fuel



Order No.	Regular Price	SALE
RT52PT200	75.05	56.28

3106

TITAN™ Welding Helmets

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



Order No.	Regular Price	SALE
KP8241279	175.60	105.36

25291

Weller® Professional Solder Gun Kits

- Dual-heat gun produces 260 or 200 watts
- Pistol grip design
- Fingertip trigger selects high (1st trigger position) or low output (2nd trigger position)
- Ready to use in 6 seconds
- Twin Lights illuminate work
- **Kit contains:** Dual-Heat gun, 1 soldering tip, 1 smoothing tip, 1 cutting tip, flux brush, soldering aid tool and a coil of lead free solder.



Order No.	Regular Price	SALE
RT50D550PK	91.67	77.91

3226

Protect-O-Screens

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



Width	Height	Color	Order No.	Regular Price	SALE
6 feet	6 feet	Olive	RT5850166	206.00	154.50
6 feet	8 feet	Olive	RT5850186	248.95	186.71

3141

Flame Retardant Cotton Jackets

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



Size	Chest Size	Length	Green			Black		
			Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Medium	44"-46"	30"	RT581030M	26.88	20.16	RT581160M	40.27	30.20
Large	48"-50"	30"	RT581030L	26.88	20.16	RT581160L	40.27	30.20
X-Large	52"-54"	30"	RT581030X	26.88	20.16	RT581160X	40.27	30.20
2X-Large	56"-58"	30"	RT5810302X	27.81	20.85	RT5811602X	41.72	31.29

3137

Welding Curtain Rolls

- Ideal for instant curtains needed for maintenance projects and used widely in robotic welding areas where large curtains are needed to enclose the perimeter of a welding area
- Protects against welding spark and UV flash
- Curtains are grommeted on one side every 12"
- Simply roll out the curtain needed and cut it with scissors



Width	Length	Color	Order No.	Regular Price	SALE
60"	25 yard	Gray	RT5863225	418.80	314.10
60"	25 yard	Orange	RT5863825	418.80	314.10
60"	25 yard	Yellow	RT5863425	418.80	314.10

3144

Solar Powered Auto Dark Welding Helmets

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



Window Style	Order No.	Regular Price	SALE
Auto Darkening	KP8241265	175.60	105.36
Auto Darkening	KP8241266	175.60	105.36
Auto Darkening	KP8241279	175.60	105.36
Fixed Front	KP8241282	175.60	105.36
Fixed Front	KP8241283	175.60	105.36
Auto Darkening	KP8241288	175.60	105.36
Auto Darkening	KP8241289	175.60	105.36
Auto Darkening	KP8241290	175.60	105.36
Auto Darkening	KP8241295	175.60	105.36

25292

DEWALT 20V MAX 1/2" IMPACT WRENCH

- Dual LEDs help illuminate the work surface
- Variable-speed dial allows the user to match speed of the router to the application
- Depth adjustment ring allows for fast and easy height adjustments
- Soft start motor with full-time electronic feedback allows the motor to maintain speed during cuts
- Electronic brake slows the motor down faster after the unit is shut off
- Tool only.... battery and charger not included
- Router Motor, Fixed Base, Instruction Manual, Wrench



new product

Drive	Maximum RPM	Battery and Charger	Model No	Order No.	Regular Price	SALE
1/2"	0-2,300	Not Included	DCF880B	PD20DCF880B	210.35	178.79

30734

DEWALT 20V MAX* BRUSHLESS DRYWALL SCREWGUN & CUT-OUT TOOL COMBO KIT (2.0AH)

- Screwgun with 4,400 rpm brushless motor provides corded performance without the cord
- Both tools have DEWALT built motors that deliver maximum run-time
- Screwgun is balanced and ergonomic - comparable to the DW272 DEWALT corded screwgun
- Cut-out tool provides a durable dust sealed switch to protect the life of the tool and 26,000 rpm
- Both tools have bright LEDs to provide greater visibility
- Includes: (1) DCF620 20V MAX* XR® Li-Ion Brushless Drywall Screwgun - Tool, (1) DCS551 20v MAX* XR Li-Ion Cordless Cut-out Tool, (2) DCB203: 20V MAX* Compact Li-Ion Batteries (2.0 Ah), (1) DCB112 - Multi-voltage charger



new product

Type	Model No	Order No.	Regular Price	SALE
Screwgun & Cut-Out Tool Combo Kit	DCG263D2	PD20DCK263D2	437.78	372.11

30738

DEWALT 20V MAX* XR® BRUSHLESS CORDLESS COMPACT ROUTER

- Dual LEDs help illuminate the work surface
- Variable-speed dial allows the user to match speed of the router to the application
- Depth adjustment ring allows for fast and easy height adjustments
- Soft start motor with full-time electronic feedback allows the motor to maintain speed during cuts
- Electronic brake slows the motor down faster after the unit is shut off
- Tool only.... battery and charger not included
- Router Motor, Fixed Base, Instruction Manual, Wrench



new product

Model No	Order No.	Regular Price	SALE
DCW600B	PD20DCW600B	278.70	236.89

30750

DEWALT 5 IN. 20V MAX XR® ANGLE GRINDER WITH KICKBACK BRAKE

- Brushless motor requires no brush changes
- Kickback Brake engages when a pinch, stall, or bind-u... will shut off includes E-CLUTCH® / OVER-LOAD PROTECTION
- POWER-LOSS RESET® - The ON/OFF trigger switch has a no-volt release function
- Two stage trigger requires two actions to activate tool
- Paddle Switch
- Tool only.... battery and charger sold separately
- Includes: Side Handle, Hex Key, Inner and outer flange, 4.5 in. type 27 guard



new product

Spindle Size	Voltage	Disc Diameter	Model No	Order No.	Regular Price	SALE
5/8"-11	20 V	5"	DCG413FB	PD20DCG413FB	453.85	385.77

30735

DEWALT FLEXVOLT® 60V MAX* BRUSHLESS 4-1/2 IN. - 6 IN. CORDLESS GRINDER

- 13 Amp motor equivalent power 9000 rpm no-load speed for applications with 6 in. grinder wheels
- Brake engages when trigger is released with stopping speeds of 1.5 seconds
- E-CLUTCH® activates in less than a tenth of a second when a pinch/stall is detected, shutting down the motor Up to 30% more power vs the DCG414 Grinder
- Tool Only.... battery and charger sold separately
- Spindle lock
- Includes: DCG418 60V MAX* Brushless 4-1/2 in. - 6 in. Cordless Grinder, (1) Wrench, (2) Flanges, Side Handle, (1) 4-1/2 in. (115mm) Type 27 Guard, (1) 6 in. (150mm) Type 27 Guard



new product

Spindle Size	Voltage	Maximum RPM	Type of Power	Order No.	Regular Price	SALE
5/8"-11	60 V	9,000	Cordless	PD20DCG418B	357.08	303.51

30737

DEWALT 4.5 IN. 20V MAX XR® PADDLE SWITCH SMALL ANGLE GRINDER KIT

- Brushless motor that elongates motor life and requires no time changing out worn brushes
- Brake stops wheel in 2 seconds or less on average
- Kickback Brake engages maximum force to stop the wheel when there is a pinch, stall, or bind-up to reduce kickback, and will shut off for further protection.... Features E-Switch Protection™
- Two stage trigger requires two actions to activate tool
- PINCLUDES: Grinder, Side Handle, Hex Key, Inner and outer flange, 4.5 in. type 27 guard, 6.0 AH DCB206 Batteries Qty 2, Charger DCB115, Kitbag



new product

Spindle Size	Model No	Order No.	Regular Price	SALE
5/8"-11	DCG413R2	PD20DCG413R2	553.99	470.89

30736

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

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



new product

Type	Model No	Order No.	Regular Price	SALE
Oscillating	DCS356B	PD20DCS356B	210.35	178.79

30740

DEWALT 20V MAX XR® HIGH TORQUE IMPACT WRENCH

- Up to 700 ft.-lbs of max torque and 1200 ft.-lbs of max break-away torque
- Compact design of 8-13/16 in. in length
- Multi-speed control for a variety of applications (0-400/1,200/1,900 rpm)
- 1/2 in. Anvil with detent pin
- LED with 20-second delay for increased visibility
- 3 LEDs with 20-second delay after trigger release, provide visibility without shadows
- Tool only (batteries and charger sold separately)



new product

Drive	Maximum RPM	Model No	Order No.	Regular Price	SALE
1/2"	400 / 1,200 / 1,900	DCF899B	PD20DCF899B	364.57	309.88

30744

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



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



Type	Model No	Order No.	Regular Price	SALE
Screwgun & Impact Wrench Kit	DCK267M2	PD20DCK267M2	540.29	459.24

30739

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



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



Model No	Order No.	Regular Price	SALE
DCS578X2	PD20DCS578X2	697.88	593.19

30742

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



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



Model No	Order No.	Regular Price	SALE
DCS573B	PD20DCS573B	352.05	299.24

30743

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



- Up to 47% more power vs the DCS575
- Maximum cut depth of 2-9/16 in. at a 90° bevel
- Maximum bevel capacity of 57° with bevel stops at 22.5° and 45°
- Electric brake stops the blade after the trigger is released
- Integrated LED for increased visibility and cut accuracy
- Integrated rafter hook for quick and easy storage
- Tool only.....battery and charger sold separately
- Includes: (1) DCS578 60V MAX* Brushless 7-1/2 in. Cordless Circular Saw, (1) Blade, (1) Blade Wren



Model No	Order No.	Regular Price	SALE
DCS578B	PD20DCS578B	350.76	298.14

30741

DEWALT FLEXVOLT® 60V MAX* BRUSHLESS CORDLESS RECIPROCATING SAW



- Power of corded with the freedom of cordless
- 0 - 3000 spm and 1-1/8 in. stroke length for fast and efficient cutting
- Keyless lever-action blade clamp for quick and easy blade changes
- Variable-speed trigger allows user to instantly control speed
- Pivoting shoe provides leverage for different applications
- LED helps illuminate dark jobsite work areas
- Tool only.... battery and charger sold separately
- Includes: (1) DCS389 60V MAX* Brushless Cordless Reciprocating Saw, (1) Blade



Strokes per Minute	Model No	Order No.	Regular Price	SALE
3,000 SPM	DCS389B	PD20DCS389B	385.98	328.08

30745

IR Ingersoll Rand 2235TIMAX IMP WRCH 1/2 DR

- Finely tuned impact mechanism and motor deliver more torque, durability, and efficiency
- 1,350 ft-lb nut-busting torque
- A lightweight, balanced, air impact wrench that weighs just 4.6lbs
- Titanium hammer case is designed to be strong and durable, to protect the interior components of the air impact wrench
- Impact- and chemical-resistant housing protects against repeated drops and exposure to shop fluids
- Pin anvil ensures positive socket retention
- Optimized for the vehicle repair industry, heavy trucks, tire lanes, fleet maintenance, body shops, general industrial use, MRO, rail, heavy machinery, oil and gas, shipbuilding, and construction
- The 2235TiMAX Series comes with a two-year manufacturing warranty, so you're covered in case of any defects or serious issues.



Drive	Handle Type	Type	Type of Power	Maximum RPM	Torque	Air Inlet Size	Average Air Consumption	Impacts per Minute	Drive Type	Order No.	Regular Price	SALE
1/2"	Pistol Grip	Air Impact Wrench	Air	8,500	930 feet/lbs	1/4" NPT	24 cfm	1,220	Square	PR-552235TiMAX	687.01	515.25

30866

PRM PRO Precision Air Grinder with 1/8" Collet

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



new product

Collet/Chuck	Maximum RPM	Order No.	Regular Price	SALE
1/8"	54,000	PJ65TG11A	98.40	73.80

22668

air turbine tools High Flow Filter/Regulator

- Filter provides a high performance, space saving combination unit
- Ideal for use in high flow applications that require regulated, high quality air



new product

Port Size	Flow Rate	Order No.	Regular Price	SALE
3/8"	65 SCFM	PF5330003	107.07	99.57

1964

Chicago Pneumatic Precision Air Grinders with 1/8" Collet

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



new product

BrandName	Maximum RPM	Order No.	Regular Price	SALE
Chicago Pneumatic	60,000	PF50CP9104QB	198.81	149.10

2316

Dynabrade Dynafile® II Abrasive Belt Machine For 18" Long Belts

Model 40320

- Grind, deburr, blend and polish, on metal, plastic, fiberglass, composites, rubber, glass and more.
- Includes 11206 Contact Arm for 3/4" W x 18" L abrasive belts
 - Ideal for use with coated abrasive and non-woven nylon belts!
 - Grind off contact wheel or platen pad. Finish & polish using slack of belt



Belt Length	Belt Width	Maximum RPM	Horsepower	Air Inlet Size	Order No.	Regular Price	SALE
18"	3/4"	20,000	0.50 hp	1/4" NPT	PF3040320	706.58	459.27

2166

'The Original' Dynafile® Abrasive Belt Machine

Model 14000

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



Belt Length	Belt Width	Maximum RPM	Horsepower	Air Inlet Size	Order No.	Regular Price	SALE
24"	1/2"	20,000	0.50 hp	1/4" NPT	PF3014000	717.91	502.53

2167

5" Dynorbital-Spirit™ Non Vacuum Random Orbital Sander

Model 59020

- Incorporates the latest engineering and manufacturing technology to create the lightest sander on the market today
 - New 3-1/2" low profile design, improves control and offers greater operator visibility
 - Easily replaceable drop-in motor
- Specifications:**
- Weight: 1.4 lbs, 75 dB(A)
 - .25 HP @ 12,00 RPM
 - 3/16" Diameter orbit
 - Includes perfectly balanced weight-mated pad - the ultimate in swirl-free finishes



Disc Diameter	Type of Power	Air Inlet Size	Maximum RPM	Horsepower	Model No	Order No.	Regular Price	SALE
5"	Pneumatic	1/4" NPT	12,000	0.25 hp	59020	PF3359020	292.52	175.51

2180

Chicago Pneumatic Air Powered Grinders

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



Type	Features and Benefits	Maximum RPM	Average Air Consumption	Air Inlet Size	Order No.	Regular Price	SALE
Economy Die Grinder	22,000 RPM, 1/4" and 6mm collet, lock-off throttle, speed and power, precision control and safety, excellent tool for general high speed polishing and grinding	22,000	13 CFM	1/4" NPT	PF50CP872	125.24	93.93
Right Angle	Mini angle grinder compact, lightweight design, 90° angle head allows flexibility in confined areas	22,500	11 CFM	1/4" NPT	PF50CP875	122.90	92.17

28772

Jacobs CHUCKS Ball Bearing Super Chucks

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



Model No	Maximum Capacity	Mount Type	Key Style	Minimum Capacity	Order No.	Regular Price	SALE
8 1/2N	1/4"	Tapered	K30	0.040"	HK5030209	188.35	141.26
11N	3/8"	Tapered	K32	0.040"	HK5030215	209.89	157.41
14N	1/2"	Tapered	K3	0.040"	HK5030221	293.42	220.06
16N	5/8"	Tapered	K4	1/8"	HK5030227	336.81	252.60
18N	3/4"	Tapered	K4	1/8"	HK5030233	506.56	379.92
20N	1"	Tapered	K5	3/8"	HK5030239	682.12	511.59

23491

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	16.57	12.42
44-7/8"	1/2"	0.02"	14	FX83BM14	16.57	12.42
44-7/8"	1/2"	0.02"	18	FX83BM18	16.57	12.42
44-7/8"	1/2"	0.02"	24	FX83BM24	16.57	12.42
44-7/8"	1/2"	0.02"	10/14 VT	FX83BM1014	16.57	12.42
44-7/8"	1/2"	0.02"	14/18 VT	FX83BM1418	16.57	12.42

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

25065

COLHOSE PNEUMATICS Typhoon™ 1/4" NPT Blow Gun With High Flow Tip

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



Inlet Size	Tip Type	Order No.	Regular Price	SALE
1/2"	High Flow	LT51TYP2500CS	32.01	23.08
1/4" NPT	High Flow	LT51TYP2501CS	50.91	36.72
3/8" NPT	High Flow Multi-Jet	LT51TYP3800MJ	64.26	43.25

1987

BANCO Bi-Metal Blade 3840 DSL

- Extra heavy duty bi-metal blade with coarse teeth for building and demolition work
- Blade thickness is increased 0.63" (1.6mm) for greater strength - making this blade ideal for cutting any building material - even heavy wood with large-dimension nails



Length	Teeth per Inch (TPI)	Quantity	Order No.	Regular Price	SALE
6"	5 8	5	FX848246631	21.32	12.79
6"	10	5	FX8414150194773	18.85	11.31
6"	10	10	FX8414150194827	28.07	16.84
6"	14	5	FX8414150194766	18.85	11.31
6"	18	10	FX8414150194803	28.07	16.84
6"	18	5	FX8414150194759	18.85	11.31
8"	10 14	5	FX8414150194957	36.82	22.09
8"	10 14	10	FX8414150194964	58.45	35.07
9"	10	10	FX8414150194889	44.29	26.57
9"	10	5	FX8414150194834	22.61	13.56
9"	14	5	FX8414150194841	22.61	13.56
9"	14	10	FX8414150194872	44.29	26.57
9"	18	10	FX8414150194865	44.29	26.57
12"	5 8	5	FX848246679	33.22	19.93
12"	10	5	FX8414150194940	22.61	13.56
12"	18	10	FX8414150194919	44.29	26.57

2325

DREMEL® Rotary Tool Kit

Model 3000-1/24

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



Order No.	Regular Price	SALE
PH503000124	128.06	102.44

2108

Legacy Blow Guns

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



Model No	Tip Type	Order No.	Regular Price	SALE
AG2-10	Extension Reach	LX55AG2	26.47	17.20
AG206-BX	Tamperproof Safety	LX55AG206	16.10	10.46
AG218-BX	Safety Booster	LX55AG218	16.74	10.04
AG7	Safety	LX55AG7	15.48	10.06

2239

Risle Locking Air Tool Holder

Organize air tools with the lockable tool holder

- Hold up to five pneumatic tools in a 10" space
- Fits all popular quick connect fittings
- Locking feature protects your air tools from theft (lock not included)
- Durable powder-coated finish



Order No.	Regular Price	SALE
KN6549960	33.00	24.75

2274

Mitutoyo Quill Kit

Easy Installation Fits Most Vertical Knee Mills

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



Order No.	Regular Price	SALE
MT85053906	352.26	307.80

23950

Mitutoyo 1" Travel AGD 2 Dial Indicator

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



Order No.	Regular Price	SALE
MT802416S	117.58	121.50

4078

Mitutoyo 6 Pc. Telescope Gage Set

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



Order No.	Regular Price	SALE
MT80155-903	238.96	208.79

4082

Mitutoyo Dial Calipers

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



Measuring Range	Order No.	Regular Price	SALE
0-6"	MT80505-742J	147.29	128.71
0-12"	MT80505-746	327.54	286.19

4113

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	182.31	159.30
0-8" / 0-200 mm	MT80500-197-30	262.65	229.50
0-12" / 0-300 mm	MT80500-193-30	543.43	460.80

4126

Mitutoyo IDS Digimatic Indicators

With Absolute Encoder

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



Indicator Style	Order No.	Regular Price	SALE
Lug Back	MT80543-783	207.03	184.14
Flat Back	MT80543-783B	207.03	184.14

4152

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



Measuring Range	Thimble Type	Accuracy	Order No.	Regular Price	SALE
0"-1" / 0 mm-25.4 mm	Ratchet	±0.00005"	MT80293-340-30	232.78	203.39
1"-2" / 25.4 mm-50.8 mm	Ratchet	±0.00005"	MT80293-341-30	283.25	247.51
2"-3" / 50.8 mm-76.2 mm	Ratchet	±0.00005"	MT80293-342-30	354.32	309.60
3"-4" / 76.2 mm-101.6 mm	Ratchet	± 0.0001"	MT80293-343-30	424.36	370.80

4155

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	146.47	124.19
Fine Adjustment	MT807011BN	161.71	141.30
Flexible Arm	MT807012-10	235.87	206.11

4168

Mitutoyo "Quik-Set" Test Indicators with Dovetail Mount

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



- Jeweled bearings
- Automatic reverse

Dial Color	Range per Revolution	Graduation	Dial Reading	Order No.	Regular Price	SALE
White	0.008"	0.0001"	0-4-0	MT80513-403-10T	231.75	202.51
White	0.030"	0.0005"	0-15-0	MT80513-402-10T	180.25	157.50
White	0.030"	0.0005"	0-15-0	MT80513-412-10T	251.32	219.59
Yellow	0.2mm	0.002 mm	0-100-0	MT80513-405-10T	223.51	195.30

4202

Mitutoyo Digimatic Micrometers

SERIES 293 MDC- Lite

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



Minimum Measurement	Maximum Measurement	Thimble Type	Order No.	Regular Price	SALE
0"	1" / 25.4 mm	Ratchet	MT80293-330-30	280.16	244.79
1"	2"	Ratchet	MT80293-331-30	329.60	288.00
2" / 50.8 mm	3" / 76.2 mm	Ratchet	MT80293-332-30	407.88	362.76

4218

Fowler X-DEPTH 22-E Electronic Depth Gage

- 0-1" travel electronic indicator with 3/8" stem
- Zero reset at any position
- On/off button
- Relative/absolute measuring
- Bottom surface of the base is hardened, ground & lapped
- Full 22" range
- Resolution .0005" / 0.01mm
- Hold feature
- 4" Base
- Includes 2 extra points for small hole applications; one .078" dia. x 1" long and one needle point x 1" long
- Includes shop-hardened case



Order No.	Regular Price	SALE
NA5554125777	335.79	271.07

3763

Fowler Electronic Micrometers

Xtra Value II

- Jet black, gray enamel finish
- Large LCD display
- Resolution: .00005"/0.001mm
- Direct RS 232 output
- Carbide measuring faces
- Absolute and incremental modes
- Ratchet thimble
- Includes shop hardened case



Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
0"	1" / 25 mm	NA5554870001	119.20	93.69
1"	2"	NA5554870002	128.72	113.07
2" / 50 mm	3" / 75 mm	NA5554870003	145.85	128.12
3" / 75 mm	4" / 100 mm	NA5554870004	163.10	143.27

3634

Fowler Swiss Style Micrometers

- Carbide tipped measuring faces
- Insulated frame
- Ratchet thimble and locking nut
- .0001" graduations
- Standards provided for sizes over 1"
- Meets or exceeds federal accuracy specifications
- Complete in case



Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
0"	1"	NA5552229201	66.02	51.89
1"	2"	NA5552229202	77.33	60.78

3717

TESA | brown & sharpe IP67 Electronic Calipers

- Perform inside, outside, depth and step measurements
- Instant inch/metric conversion
- Square shaped depth measuring rod
- Thumbwheel
- Absolute and differential measuring system
- Durable stainless steel frame
- Auto shut-off
- Battery life: approx. 2 years
- Power supply: 3V lithium-battery, type CR 2032



Measuring Range	Resolution	Order No.	Regular Price	SALE
0-6" / 0-150 mm	0.0005" / 0.01 mm	MV4545601	159.44	147.06
0-8" / 0-200 mm	0.0005" / 0.01 mm	MV4545602	228.66	210.90

3367

Fowler Euro-Cal IV Electronic Caliper

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



Measuring Range	Order No.	Regular Price	SALE
0-6" / 0-150 mm	NA55541003301	158.94	124.92
0-12" / 0-300 mm	NA5554100332	241.26	213.15

3532

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	36.06	27.49

3692

Fowler Electronic Calipers

- RS232C Direct output
- Hold feature
- Preset mode now includes offset for inside jaws
- All sizes feature fine adjustment screw
- Resolution: .0005"/0.01mm
- Inch/metric conversion
- Includes wooden case



Measuring Range	Inside Jaw Depth	Order No.	Regular Price	SALE
0-12" / 0-300 mm	3.5"	NA5554100312	280.71	226.58
0-24" / 0-600 mm	4"	NA5554100024	412.94	351.85
0-40" / 0-1000 mm	6"	NA5554100042	1383.55	1054.78

3786

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	109.18	95.40
0-12" / 0-300 mm	0.0005" / 0.01 mm	1102-300	SZ201102300	198.79	173.70

3945

PROCHECK 6" Lite-Cal Electronic Caliper

- Range: 6" / 150mm
- Polycarbonate frame
- Large easy-to-read display
- Resolution: .0005" / .01mm (Fractions by 1/64" increments)
- Absolute / Incremental Measurement
- Direct inch / metric / fraction conversion
- 4-way measuring
- Accuracy: +/- .008"
- Supplied with clip-on vinyl pouch
- 1 Year Warranty



Order No.	Regular Price	SALE
PC20EC06150FP	24.48	17.83

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	64.99	47.32
0-6" / 0-150 mm	1-9/16"	PC20EC06150F	64.99	47.32

4574

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	369.76	349.00

29895

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	100.39	73.10

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	71.23	51.84
0-8"	0.001"	1-15/16"	0.1"	White	PC21DC08SP	96.87	70.54
0-12"	0.001"	2-1/2"	0.1"	White	PC21DC12SP	138.14	100.58

4800

FLUKE 87-5 Digital Multimeter

Fluke 80 Series V Digital Multimeters: The Industrial Standard. The most trusted industrial multimeter in the business. Designed and built in the U.S.A. Lifetime warranty.

- True-RMS ac voltage and current for accurate measurements on non-linear signals
- Selectable filter for accurate voltage and frequency measurements on motor drives
- 0.05 % dc accuracy
- 6000 counts, 3-3/4 digits
- Measure up to 1000 V ac and dc
- Measure up to 10 A, 20 A for up to 30 seconds
- Built in thermometer lets you carry one less tool (TC probe included)
- Frequency to 200 kHz and % duty cycle



4407

Order No.	Regular Price	SALE
FL0612920	516.02	486.00

29879

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	113.28	95.02

30004

FLUKE T6-1000 Electrical Tester

The 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	360.49	340.00

29896

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	157.58	149.00

29899

PROCHECK 6" Digital Height Gage

- 3-Read display in inches, metric 1/128"
- IP54: splash water, oil and dust resistant
- Resolution: .0005" / 0.01mm
- Magnetic base
- 1 Year Warranty



Order No.	Regular Price	SALE
PC20EHG06AB	103.92	75.67

4406

PROCHECK ABSOLUTE Digital Height Gages

- Large easy to read LCD display
- Absolute technology that memorizes origin zero
- Resolution .0005" / 0.01mm
- Accuracy .0015"
- Indication variability .0005" / 0.01mm
- Connect and interactive with Procheck absolute digital indicators
- Optional USB data kit (PC26DCBL5PIN) available
- Compatible with optional wireless adaptor (PC26WTD1ABS)



Total Range	Order No.	Regular Price	SALE
0 - 12" / 0 - 300mm	PC20HG012E	581.85	423.68
0 - 24" / 0 - 600mm	PC20HG024E	801.39	583.54

4425

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	246.38	179.42

4824

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	756.64	550.95
8 mm	10 mm	PC20EIBG810MI5	722.13	525.82
10 mm	12 mm	PC20EIBG1012MI5	722.13	525.82
12 mm	16.51 mm	PC20EIBG1216MI5	634.07	461.70
16.5 mm	20.32 mm	PC20EIBG1620MI5	634.07	461.70
20.32 mm	25.40 mm	PC20EIBG2025MI5	634.07	461.70
25.4 mm	30.48 mm	PC20EIBG2530MI5	634.07	461.70
30.48 mm	40.64 mm	PC20EIBG3040MI5	686.91	500.18
40.64 mm	50.80 mm	PC20EIBG4050MI5	774.97	564.30

4580

PROCHECK Telescoping Gages

- Measure inside diameter
- Spring loaded plunger expands within the bore
- Knurled end clamp



Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
5/16"	1/2"	PC24TSG1P	7.91	5.18
1/2"	3/4"	PC24TSG2P	8.24	5.40
3/4"	1 1/4"	PC24TSG3P	8.24	5.40
1 1/4"	2 1/8"	PC24TSG4P	9.31	6.10
2 1/8"	3 1/2"	PC24TSG5P	9.31	6.10
3 1/2"	6"	PC24TSG6P	9.31	6.10

4827

Starrett 567 Series Telescoping Gage Sets

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



Number of Pieces	Minimum Measurement	Maximum Measurement	Order No.	Regular Price	SALE
4	5/16" / 8.0 mm	2 1/8" / 54.0 mm	MV7052616	197.29	177.56
6	5/16" / 8.0 mm	6" / 150.0 mm	MV7052617	335.72	302.15

5150

KLEIN TOOLS Torpedo Billet Level

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



Model No	Order No.	Regular Price	SALE
935RB	KP6016175	41.16	34.53

30017

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 180° in both directions
- Square/miter head features a level vial and a hardened scribe tool
- Fitted case included
- 1 Year Warranty



Order No.	Regular Price	SALE
PC23CS1244	106.53	77.57

4364

PRO-CHECK 12" Combination Square Sets

Sets consist of:

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



Number of Pieces	Order No.	Regular Price	SALE
2	NB60CS122	29.17	22.94
3	NB60CS123	36.77	28.91
4	NB60CS124	67.10	52.77

4367

Fowler Mini-Mag Protractor

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

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



Order No.	Regular Price	SALE
NA55544224501	127.05	99.85

3682

PRO-CHECK 360° Digital Level / Protractor

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



Model No	Accuracy	Type	Order No.	Regular Price	SALE
06LP360RW	0.2°	360° Digital Level Protractor with Wireless Connect	PC2306L-P360RW	119.59	87.08

4770

PRO-CHECK Double Squares

- Used for precision layout work
- All blades are hardened and tempered with easy to read markings



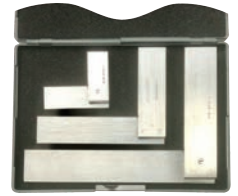
Blade Length	Graduation	Order No.	Regular Price	SALE
4"	1/8", 1/16", 1/64", 1/64"	NB60DS404R	27.32	17.91
4"	1/32", 1/64", 1/50", 1/100"	NB60DS416R	27.32	17.91
4"	0.5 mm, 1/32", 1 mm, 1/64"	NB60DS4EM	27.32	17.91
6"	1/8", 1/16", 1/32", 1/64"	NB60DS604R	36.90	24.19
6"	1/32", 1/64", 1/50", 1/100"	NB60DS616R	36.90	24.19
6"	0.5 mm, 1/32", 1 mm, 1/64"	NB60DS6EM	36.90	24.19
100 mm	1 mm, 0.5 mm both sides	NB60DS100FM	27.32	17.91
150 mm	1 mm, 0.5 mm both sides	NB60DS150FM	36.90	24.19

4558

PRO-CHECK 3 Pc. Precision Engineer Square Set

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	77.41	56.37

4377

CRESCENT Lufkin 1" x 25' Hi Vis® Power Return Tape

- Toggle lock button
- Four rivet Quad-Hook™ on 1" wide blades
- 1/16" Top and bottom, instant foot readings



Order No.	Regular Price	SALE
MZ50PHV1425	33.16	24.12

4012

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	60.15	43.80
10X	PC22PC22L10XLUV	52.81	38.46

4662

PRO-CHECK Precision Angle Gage Set

5° to 90° in 5° Increments

- 18 Individual gages
- 8 Gaging surfaces per gage
- Each gage checks primary, 1/2 primary and complementary angles
- Quick & accurate inspection of angles & ID or OD chamfers
- Positioning of the lathe tools for chamfers
- Inspecting angles on ground form tools and cutters



Order No.	Regular Price	SALE
NB67L300AG	54.70	38.24

4743

PRC CHECK 200X Digital Microscope with Stand

- Magnification 10x - 200x @ 17" monitor 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	403.34	293.69

4376

PRC CHECK Feeler Thickness Gages

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



Number of Leaves	Tapered or Parallel	Thicknesses Included	Order No.	Regular Price	SALE
26	Parallel	0.0015" to 0.025"	NB45STG26	10.41	6.37
9	Parallel	0.0015" to 0.015"	NB45STG9	5.41	3.31
26	Tapered	0.0015" to 0.025"	NB45TTG26	9.52	5.82

4594

PRC CHECK PREMIUM 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	24.62	17.93
White	PC21DI211WCT	24.62	17.93

4340

PRC CHECK 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	199.81	145.49
6mm	1mm	0.01mm	1-1/2	PC21CI250M	181.41	132.09

4506

Fowler X-TEST Test Indicators

Twice the range of most indicators!
Now available in HORIZONTAL & VERTICAL!

- .060" Range
- Dial reading: 0-15-0
- Jeweled movement
- Revolution counter
- East-to-read tilted dial
- Automatic reversal
- Swivel arc: 210°
- .080" Tungsten carbide point
- Includes two dovetail stems
- Furnished in molded case



Graduation	Dial Face Diameter	Horizontal			Vertical		
		Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
0.001"	1.0"	NA5552562003	159.05	132.36	-	-	-
0.0005"	1.0"	NA5552562002	159.05	132.36	NA5552562005	174.16	144.93
0.0005"	1 1/2"	NA5552562001	159.05	132.36	NA5552562004	174.16	144.93

3770

PRC CHECK 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	73.62	53.61
1 1/4"	White	PC21TI0301035W	81.08	59.04
1 1/2"	Black	PC21TI0301505B	81.89	59.63
1 1/2"	White	PC21TI0301535W	81.89	59.63

4541

Starrett 196A1Z Back Plunger Dial Test Indicator

- .001" Graduation
- 0-100 Dial reading
- 0-.200" Range
- 3 Point, 4 attachment and case included



Order No.	Regular Price	SALE
MV7050697	289.00	283.52

4934

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	211.18	153.77
0-2" / 0.50	PC20EIM025ABEM	281.63	205.07

4552

Starrett 25-441J AGD 2 Dial Indicator

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



Order No.	Regular Price	SALE
MV7053295	192.93	173.64

4937

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	158.94	117.57
0.030"	0-15-0	0.0005"	1"	1/2"	NA5552562775	158.94	117.57
0.030"	0-15-0	0.0005"	1 1/2"	1/2"	NA5552562780	166.19	153.29
0.030"	0-15-0	0.0005"	1-1/2"	1/2"	NA5552562776	166.19	122.94
0.030"	0-15-0	0.001"	1"	1/2"	NA5552562774	149.54	117.53

28832

PROCHECK Z-Axis Setter with Magnetic Base

- Establish "0" reference point with built in indicator
- Positioning accuracy and repeatability .0004"/0.01mm
- 1.45"/37mm Square



Order No.	Regular Price	SALE
PC21ZAS4CNCM	220.36	144.41

29758

PROCHECK PREMIUM Procheck AGD Dial Indicators - Certified

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



Type	Indicator Style	Total Range	Dial Color	Dial Size	Graduation	Description	Order No.	Regular Price	SALE
Dial Indicator	AGD 2	1/2"	Black	2-1/4"	0.001"	Certified	PC21DI2121BC	39.67	26.00
Dial Indicator	AGD 2	1"	Black	2-1/4"	0.001"	Certified	PC21DI2011BC	39.67	26.00
Dial Indicator	AGD 2	1"	White	2-1/4"	0.001"	Certified	PC21DI2011WC	39.67	26.00
Dial Indicator	AGD 2	1"	White	2-1/4"	0.0005"	Certified	PC21DI2015WC	44.26	29.00
Dial Indicator	AGD 2	2"	Black	2-1/4"	0.001"	Certified	PC21DI2021BC	81.42	53.36
Dial Indicator	AGD 2	2"	White	2-1/4"	0.001"	Certified	PC21DI2021WC	81.42	53.36
Dial Indicator	AGD 2	1/2"	White	2-1/4"	0.001"	Certified	PC21DI2121WC	39.67	26.00

30766

PROCHECK PREMIUM Procheck Electronic Indicators - Certified Procheck AGD Dial Indicators - Certified

- Flat Back, 1/4" Lug Back and fitted case
- Super large LCD display for easy reading
- Certificate of Inspection Included, Standard ASME B89.1.10M-2001
- 1 Year Warranty



Total Range	Resolution	Description	Order No.	Regular Price	SALE
1"	0.0005"	Certified	PC20EI0112505C	82.27	53.91
1/2"	0.0005"	Certified	PC20EI0512505C	81.42	53.36

30767

PROCHECK PREMIUM Procheck Dial Indicators - Certified

Procheck AGD Dial Indicators - Certified

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



Indicator Style	Total Range	Dial Color	Dial Reading	Dial Size	Graduation	Description	Order No.	Regular Price	SALE
AGD 2	5 mm	White	-	58 mm	0.01 mm	Certified	PC21DI5805MM1C	55.38	36.29
AGD 2	10 mm	White	0-100	2-1/4"	0.01 mm	Certified	PC21DI210MM1C	55.38	36.29
AGD 2	25 mm	White	0-100	2-1/4"	0.01 mm	Certified	PC21DI225MM1C	87.63	57.43

30768

PROCHECK Individual Edge & Center Finders

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



Style	End Type	Shank	Tip Diameter	Order No.	Regular Price	SALE
Edge	Single End	1/2"	0.500"	NE60083	5.85	4.24
Edge	Double End	1/2"	0.200" x 0.500"	NE60084	6.37	4.62
Edge	Single End	3/8"	0.200"	NE60085	6.03	4.38
Edge/Center	Double End	1/2"	0.200" x Point	NE60086	9.01	6.48
Edge/Center	Double End	3/8"	0.200" x Point	NE60087	7.32	5.31
Edge	Single End	1/2"	0.200"	NE60088	6.37	4.57
Center	Single End	3/8"	Point	NE60089	6.00	4.37
Center	Single End	1/2"	Point	NE60090	7.24	5.30

4650

Fowler Z-CHECK 54 Z-Axis Tool Setter

Features:

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



Order No.	Regular Price	SALE
NA55541882000	138.95	122.77

29367

PRO-CHECK Magnetic Dial Indicator Base with Center Lock

Fine Adjustment:

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



Features	Pull Force	Order No.	Regular Price	SALE
With (1) Knob Center Lock, Fine Adjustment	130 lbf	PC21MB-CL130	80.06	62.69

4243

PRO-CHECK 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	PC21MB-CF130	65.34	47.58
130 lbf	12" Flexible Arm	PC21MBFL130	67.92	49.46

4244

INOGA Magnetic Base

- 3/8" 8mm, 6mm & dovetail clamp
- Unique 3 point arm lock system
- Improved "at base" single direction fine adjustment
- 180 LBF magnetic base with on/off switch



Order No.	Regular Price	SALE
FN60PH2040	53.22	46.51

4267

PRO-CHECK 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	56.19	40.92

4491

Starrett Magnetic Bases

657 Series

Fixed Post Indicator Holder Features:

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

Flex-O-Post Indicator Holder

- All features above plus flex arm for difficult positioning



Model No	Order No.	Regular Price	SALE
657AA	MV7052743	245.25	220.73
657T	MV7052760	343.35	309.02

5083

INOGA 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	130.31	113.86
70 lbf	3/8"	Flex Dial Gage Holder with 360 Degree Fine Adj at Base	FN60NF1024	132.61	115.86
70 lbf	3/8"	Power On/Off Flex Holder with Fine Adjustment at Base-Standard Arm	FN-60NF10433	114.79	100.30
70 lbf	3/8", 6 mm, or 8 mm	Flex Dial Gage Holder with Fine Adjustment on Top Clamp	FN-60NF61003	105.51	92.19

28627

NOGA Heavy Duty Magnetic Base & Procheck Indicator Set

Noga Magnetic Base

- Central locking mechanism
- Powerful - 176 lbs. force on/off magnetic base
- Easy 3-dimensional set-up

Procheck AGD 2 Style Dial Indicator

- 0-1" travel with 0-100 dial and .001" graduation
- Revolution counter
- Mount with 3/8" stem or lug back (supplied)

22 Pc. Point Set

- 22 contact points (4-48 thread)



Order No.	Regular Price	SALE
NB65DG61003DPK	161.66	141.13

4273

PROCHECK Universal Mag Base & Indicator Set

- Test indicator range .030"
- Graduation .0005"
- Universal magnetic base
- Swivel range: 210°
- Protective case included
- 1 Year Warranty



Order No.	Regular Price	SALE
PC21UMB35K	98.46	71.69

4864

Starrett 91 Series Straight Tap Wrenches

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



Size	Right Hand Thread Length	Order No.	Regular Price	SALE
1/16" to 1/4"	6"	MV7050419	65.40	58.86
3/16" to 1/2"	9"	MV7050420	93.74	84.36
1/4" to 5/8"	12"	MV7050421	151.51	136.37
5/16" to 3/4"	16"	MV7050422	204.92	184.43

25070

MAG-MATE Inspection Mirror/Magnet Combination Tools

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

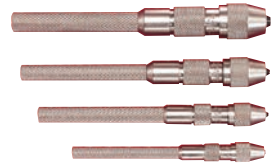


Mirror Width	Mirror Length	Material	Overall Length	Extended Length	Pull	Order No.	Regular Price	SALE
2"	2"	Glass	6 1/4"	28"	2 lbs	NE70301G240	15.40	12.29
1 1/2"	1 1/2"	Glass	6"	23 1/2"	2 lbs	NE70306G240	15.93	12.73
3"	2"	Stainless	8 1/4"	38"	7 lbs	NE70314S925	41.81	33.39
1 1/4"	2"	Glass	6"	24 1/4"	2 lbs	NE70315G240	15.99	12.76
2 1/2"	1 7/8"	Acrylic	7 3/4"	32 1/2"	12 lbs	NE70321A931	42.52	33.98
-	-	Glass	14 1/4"	14 1/4"	20 lbs	NE70375G990	75.21	60.09

4044

Starrett 240 Series Pin Vises

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



Capacity	Style	Order No.	Regular Price	SALE
0.010"-0.055"	Single End	MV7051136	29.98	26.99
0.025"-0.075"	Single End	MV7051137	36.52	32.87
0.045"-0.135"	Single End	MV7051138	40.33	36.30
0.110"-0.200"	Single End	MV7051139	43.60	39.24
0.010"-0.200"	4 piece set in Protective Case	MV7051140	154.78	139.31

5088

MAG-MATE Inspection Tool Kits

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



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

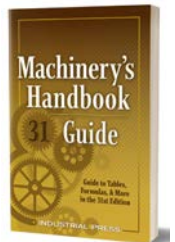
Set Includes	Length	Order No.	Regular Price	SALE
Swivel Headed Retriever and 3X Magnifier	7 1/2"	NE70M-MK204	56.60	45.22
Lighted Magnet pick-up tool, 4-Jaw, 7/16" dia., 8-3/4" Mechanical Finger retriever and a Round Magnifying Inspection Mirror	7"	NE70M-MK301	74.40	57.79

4046

IP 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	29.95	26.96
Machinery's Handbook 31st Edition, Large Print Edition	MY5036314	149.95	134.96
Machinery's Handbook 31st Edition, Toolbox Edition	MY5037311	119.95	107.96

3911

HAND TOOLS

APEX Torx® Bits



Tip Size	Drive Size	Overall Length	Model No	Order No.	Regular Price	SALE
T6	1/4"	1"	440-TX-06X	KW7060170	4.71	3.86
T7	1/4"	1"	440-TX-07X	KW7060175	4.71	3.86
T8	1/4"	1"	440-TX-08X	KW7060180	4.71	3.86
T9	1/4"	1"	440-TX-09X	KW7060185	4.71	3.86
T10	1/4"	1"	440-TX-10X	KW7060190	4.40	3.60
T15	1/4"	1"	440-TX-15X	KW7060195	4.40	3.60
T20	1/4"	1"	440-TX-20X	KW7060200	4.46	3.65
T25	1/4"	1"	440-TX-25X	KW7060205	4.46	3.65
T27	1/4"	1"	440-TX-27X	KW7060210	4.46	3.65
T30	1/4"	1"	440-TX-30X	KW7060215	4.46	3.65
T40	1/4"	1"	440-TX-40X	KW7060220	4.46	3.65
T45	1/4"	1 1/4"	440-TX-45X	KW7060225	7.20	5.90
T50	1/4"	1 1/4"	440-TX-50X	KW7060230	7.87	6.45
T27	5/16"	1 1/4"	480-TX-27X	KW7060235	5.81	4.76
T30	5/16"	1 1/4"	480-TX-30X	KW7060240	5.77	4.73
T40	5/16"	1 1/4"	480-TX-40X	KW7060245	5.77	4.73
T45	5/16"	1 1/4"	480-TX-45X	KW7060250	6.50	5.33
T50	5/16"	1 1/4"	480-TX-50X	KW7060255	6.50	5.33
T55	5/16"	1 1/4"	480-TX-55X	KW7060260	6.50	5.33

6484

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

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



Tip Size	Overall Length	Model No	Order No.	Regular Price	SALE
IP10	1 15/16"	49-10IPX	KW7060465	11.10	9.10
IP10	2 3/4"	49-A-10IPX	KW7060420	11.98	9.82
IP10	3 1/2"	49-B-10IPX	KW7060510	14.04	11.51
IP15	1 15/16"	49-15IPX	KW7060470	11.10	9.10
IP15	2 3/4"	49-A-15IPX	KW7060425	11.98	9.82
IP15	3 1/2"	49-B-15IPX	KW7060515	14.04	11.51
IP20	1 15/16"	49-20IPX	KW7060475	11.10	9.10
IP20	2 3/4"	49-A-20IPX	KW7060430	11.98	9.82
IP20	3 1/2"	49-B-20IPX	KW7060520	14.04	11.51
IP25	1 15/16"	49-25IPX	KW7060480	11.10	9.10
IP25	2 3/4"	49-A-25IPX	KW7060435	11.98	9.82
IP25	3 1/2"	49-B-25IPX	KW7060525	14.04	11.51
IP27	1 15/16"	49-27IPX	KW7060485	11.10	9.10
IP27	2 3/4"	49-A-27IPX	KW7060440	11.98	9.82
IP30	1 15/16"	49-30IPX	KW7060495	11.10	9.10
IP30	2 3/4"	49-A-30IPX	KW7060445	11.98	9.82
IP30	3 1/2"	49-B-30IPX	KW7060535	14.04	11.51
IP40	1 15/16"	49-40IPX	KW7060415	11.10	9.10

6483

TITAN 43 Pc. Master Star Bit Socket Set

Set Includes:

- (12) External star sockets: 1/4, 3/8 & 1/2" drive
- (13) Star bit sockets: 1/4, 3/8 & 1/2" drive
- (12) Tamper resistant star bit sockets: 1/4, 3/8 & 1/2" drive
- (6) 1/4" Star bits
- Blow molded case



Order No.	Regular Price	SALE
KP8254137	91.26	54.75

While Supplies Last

25280

wiha 11 Pc. Insulated Electricians Kit

Tested & approved to the following standards: VDE 0680-201, ASTM F-1505-01, EN60900, NFPA70E. Made in Germany.

Consists of 1 each:

- 3/32" Straight screwdriver
- 9/64" Straight screwdriver
- 3/16" Straight screwdriver
- 1/4" Straight screwdriver
- #0 Phillips screwdriver
- #1 Phillips screwdriver
- #2 Phillips screwdriver
- 6.3" Diagonal cutter
- 6.3" Needle nose pliers
- 6.3" Adjustable stripping pliers
- 8.0" Linemans pliers



Order No.	Regular Price	SALE
KN5432888	259.35	194.51

* Available while supplies last

25474

wiha Cushion Grip Screwdrivers TORX® Drivers

Drivers

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



Tip Size	Order No.	Regular Price	SALE
T6	KN5436266	6.30	4.72
T7	KN5436268	6.14	4.60
T8	KN5436270	6.14	4.60
T9	KN5436272	6.82	5.11
T10	KN5436274	6.86	5.14
T15	KN5436276	7.40	5.55
T20	KN5436278	7.60	5.70
T25	KN5436280	9.04	6.78

25525

WILLIAMS Hex, Torx® & Balldriver Socket Sets

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



Drive Size	Set Includes	Type	Order No.	Regular Price	SALE
3/8"	1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", & 3/8"-3/8" Drive - Socket Set	Ball Drive Set	KP3031906	76.78	46.06
3/8"	4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm-3/8" Drive - Metric Socket Set	Hex Drive Set	KP3031904	52.18	31.30
1/2"	8 mm-19 mm-1/2" Drive - Metric Hex Bit Socket Set	Hex Drive Set	KP3032904	82.15	49.29
1/4", 3/8", 1/2"	T25, T27, T30, T40, T45, T47, T50 Torx Bits	Torx Set	KP3031912	65.59	39.35
1/4", 3/8", 1/2"	T40, T45, T50, T55, T60-1/2" Drive - Socket Drive Torx Bit Set	Torx Set	KP3032908	66.19	39.71

22450

WILLIAMS 72 Pc. Tools Bits Set

Features:

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



Set Includes	Order No.	Regular Price	SALE
Bits included: Hex, Phillips, Square, Slotted, Pozi-Drive, Torx®, Nut Drivers, Magnetic Holder, Cones in 1 & 2" lengths	KP3024900	83.33	49.99

24984

STANLEY 65 Pc. Mixed Tool Set

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



Sizes Included	Model No	Order No.	Regular Price	SALE
(30) 1/4" Drive Specialty Bits; (8) 1/4" Drive Sockets; (1) Each 16' Tape Rule, 18mm Snap-off Knife, 1/4" Dr. Bit Holder, 1/4" Drive Round Head Ratchet, Spinner Handle, Claw Hammer, Torpedo Level, 6" Long Nose Pliers, 6" Slip Joint Pliers, 2 Pt. Phillips Screwdriver, 65mm Flat Screwdriver, (8) Ea. SAE & Metric Hex Keys; Blow Molded Carry Case	94-248	KP435684	107.85	86.28

7709

WILLIAMS 63 Pc. 3/8" Drive Socket, Screwdriver & Wrench Set

- 8" Pear-head ratchet, 3", 6", and 10" extensions
- U-joint, breaker bar, t-handle, 3/8" x 1/4" and 3/8" x 1/2" adapters
- 13 Standard depth sockets sizes 1/4" through 1"
- 14 Standard depth sockets sizes 6 through 19mm
- 7 Combination wrenches 1/4" through 5/8"
- 4 Screwdrivers - 2 slotted and 2 Phillips®
- 1/4" Drive spinner handle, u-joint, and bit holder
- 13 Hex bits, slotted, square, hex, and Phillips®



Order No.	Price
KP3050605	252.30

24980

BONDHUS Double Sided Ball End L-Wrenches

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



Number of Pieces	Sizes Included	Arm Type	Driver Style	Order No.	Regular Price	SALE
13	0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	Long	Double Ball	KN5367037	40.36	24.21
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	32.68	19.60

6520

WILLIAMS Adjustable Wrenches Black and Chrome

- Chrome or black satin plated finish allows for easy cleaning after each use
- Serrated knurl is designed for quick and smooth adjustments
- I-Beam designed handle provides strength and durability
- Inch (SAE) scale is laser-etched on head face for easy determination of bolt head width



Overall Length	Jaw Capacity	Finish	Order No.	Regular Price	SALE
4"	1/2"	Chrome	KP30AP4A	23.07	13.84
15"	1 3/4"	Chrome	KP30AP15A	79.04	47.42

7564

CDI TORQUE Advanced Electronic Torque Wrench

- 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
- Output 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
3/4"	30-600 feet/lbs	360-7200	40.7-813.5	KL456004CASG	2851.92	2138.94

7658

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

- 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	232.55	186.04
1/4"	40-200 inch/lbs	1 inch/lbs	11 21/64"	Yes	KP4220765	312.23	249.78
1/4"	40-200 inch/lbs	1 inch/lbs	11 21/64"	No	KP4220890	235.36	188.28
3/8"	16-80 feet/lbs	0.5 feet/lbs	15 1/32"	Yes	KP4220785	329.39	263.51
3/8"	16-80 feet/lbs	0.5 feet/lbs	15 1/32"	No	KP4220845	251.96	201.56
3/8"	20-100 feet/lbs	0.5 feet/lbs	16 17/32"	No	KP4220865	273.42	218.73
3/8"	40-200 inch/lbs	1 inch/lbs	11 21/64"	No	KP4220895	240.63	192.50
3/8"	40-200 inch/lbs	1 inch/lbs	11 21/64"	Yes	KP4220770	317.71	254.16
3/8"	200-1000 inch/lbs	5 inch/lbs	14 15/16"	Yes	KP4220775	339.98	271.98
3/8"	200-1000 inch/lbs	5 inch/lbs	14 15/16"	No	KP4220900	257.54	206.03
1/2"	16-80 feet/lbs	0.5 feet/lbs	15 1/32"	Yes	KP4220790	346.55	277.24
1/2"	16-80 feet/lbs	0.5 feet/lbs	15 1/32"	No	KP4220860	265.12	212.09
1/2"	30-150 feet/lbs	1 feet/lbs	20 43/64"	No	KP4220915	278.76	223.00
1/2"	30-150 feet/lbs	1 feet/lbs	20 43/64"	Yes	KP4220795	364.33	291.46
1/2"	50-250 feet/lbs	1 feet/lbs	26 17/64"	Yes	KP4220800	406.73	325.38
1/2"	50-250 feet/lbs	1 feet/lbs	26 17/64"	No	KP4220840	311.14	248.91
1/2"	360-1800 inch/lbs	10 inch/lbs	20 43/64"	No	KP4220905	280.80	224.64
3/4"	60-300 feet/lbs	2 feet/lbs	32 3/4"	No	KP4220830	834.14	667.31
3/4"	120-600 feet/lbs	2 feet/lbs	41 17/32"	No	KP4220835	1195.71	956.56
3/4"	120-600 feet/lbs	2 feet/lbs	41 17/32"	Yes	KP4220810	1563.03	1250.42
1"	140-700 feet/lbs	2 feet/lbs	46 57/64"	No	KP4220825	1377.63	1102.10

7333

wiha T-Handle TORX® Drivers

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



Torx Size	Order No.	Regular Price	SALE
T9	KN5436409	7.42	5.56
T10	KN5436410	7.58	5.68
T15	KN5436415	8.94	6.70
T15	KN5436417	9.11	6.83
T20	KN5436420	10.14	7.60
T20	KN5436422	10.14	7.60
T25	KN5436427	10.67	8.00

8000

IRWIN VISE-GRIP Locking Pliers Sets

Original & Comfort Grip

- Jaws provides extra ordinary gripping power
- Original and new soft fast release handle

(215G) 2 Pc. Locking Plier Set Includes:

- 5" Curved jaw plier (5WR)
- 10" Curved jaw plier (10WR)

(77T) 2 Pc. Locking Plier Set Includes:

- 10" Curved jaw plier with wire cutter
- 6" Long nose jaw plier with wire cutter

(428GS) 4 Pc. Locking Plier Set Includes:

- 5" Curved jaw plier (5WR)
- 6" Long nose plier (6LN)
- 7" Straight jaw plier (7R)
- 10" Curved jaw plier (10CR)
- Plus storage pouch



KX50215G



KX5077T



KX50428GS

Number of Pieces	Handle Type	Order No.	Regular Price	SALE
2	Standard	KX50215G	45.99	27.59
2	ProTouch Grip	KX5077T	55.78	33.46
4	Standard	KX50428GS	98.23	58.93

23473

wiha "MagicRing" L-Key Ball End Drivers

Screw Holding Hex Keys

- 9 Pc. Metric Set: 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0mm
- 13 Pc. Inch Set: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"
- Uses a Hardened Spring Steel Compression Ring Securely Grips Inner Head Of Screw Allows free hand for work positioning Sizes 1/8 to 3/8 Screw holding MagicRing Wiha Exclusive Chrome-V-Moly Super Tool Steel



Number of Pieces	Order No.	Regular Price	SALE
9	KN5466990	51.89	38.91
13	KN5466991	64.25	48.18

25513

LANG Heavy Duty Snap Ring Pliers

- Spring ratchet locking mechanism securely holds against snap ring tension
- Thumb release allows for smooth, controlled tension release
- Cushion grip for comfort
- External ring size: 3-1/2 - 6-1/2", 89mm - 165mm
- Internal ring size: 3-1/16 - 6-1/4", 78mm - 158mm
- Includes .120" diameter straight tip



Style	Overall Length	Order No.	Regular Price	SALE
Internal Ring	16 1/2"	KL401485	96.82	72.61
External Ring	16 1/2"	KL401486	96.82	72.61

6832

PROTO Power-Track® II Tongue & Groove Pliers

- Precision milled undercut groove joint provides interlocking feature for powerful non-slip performance
- Angled teeth provide superior gripping Plastisol grips for added comfort



Overall Length	Maximum Capacity	Jaw Length	Jaw Width	Model No	Order No.	Regular Price	SALE
5"	15/32"	7/8"	13/16"	J261SG	KP4230145	20.50	16.40
7"	1 1/8"	1 3/8"	1 3/4"	J262SG	KP4230150	20.27	16.21
10"	2 1/8"	1 15/16"	2 3/4"	J260SG	KP4230165	26.12	20.89
12"	2 5/8"	2 1/4"	2 3/4"	J264SG	KP4230155	27.38	21.90
17"	4 1/16"	3 3/8"	4 1/8"	J265SG	KP4230160	41.76	33.40

7324

CHANNEL LOCK Plier Sets

3 Pc. Combo Set Includes:

- 7-1/2" Long nose plier (3017)
- 7" Cutting plier (337)
- 10" Tongue & groove plier (430)

3 Pc. Griplock® Set Includes:

- 6" Griplock® plier (GL6)
- 10" Griplock® plier (GL10)
- 12" Griplock® plier (GL12)



LB50GS4

LB50GLS3

Set Includes	Order No.	Regular Price	SALE
6", 10", 12" Griplock Pliers	LB50GLS3	51.18	38.38
7 1/2" Long Nose, 7" Cutting, 10" Tongue & Groove	LB50GS4	69.96	52.47

22932

IRWIN VISE-GRIP 5 Pc. Locking Plier Set

Includes:

- 5" Curved Jaw (5WR)
- 6" Long Nose (6LN)
- 7" Curved Jaw (7WR)
- 10" Curved Jaw (10WR)
- 10" Straight Jaw (10R)
- Pouch



Order No.	Regular Price	SALE
KX5068	122.95	73.77

6765

CRESCENT 9" Linesman Compound Action Cutting Plier

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



Overall Length	Order No.	Regular Price	SALE
8"	KW50PS5429C	40.92	28.64

6584

PROTO 6 Pc. Assorted Pliers Set

Contains 1 of each:

- Diagonal cutting
- Duckbill
- Needle nose long
- Tongue and groove
- Lineman's New England
- Combination slip-joint pliers



Model No	Order No.	Regular Price	SALE
J202GS	KP4230180	162.97	130.37

7170

Die Setter Bars

- A practical shop tool for quick separation of punch and die holder



Overall Length	Thickness	Order No.	Regular Price	SALE
18"	5/8"	KS517035	39.33	29.49
30"	3/4"	KS517037	54.72	41.04

23682

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	57.58	43.18
1 1/2"	2 lbs	KY50R2	61.49	46.11
1 3/4"	2.75 lbs	KY50R3	73.95	55.46
2"	4 lbs	KY50R4	84.56	63.42
2 3/4"	6.5 lbs	KY50R5	127.82	95.86

6630

16 Pc. Hollow Punch Set (SAE)

Set Includes:

- Handle and centering point
- 1/8" Hollow punch
- 3/16" Hollow punch
- 1/4" Hollow punch
- 5/16" Hollow punch
- 3/8" Hollow punch
- 7/16" Hollow punch
- 1/2" Hollow punch
- 9/16" Hollow punch
- 5/8" Hollow punch
- 3/4" Hollow punch
- 7/8" Hollow punch
- 1" Hollow punch
- 1-1/16" Hollow punch
- 1-1/8" Hollow punch
- 1-3/16" Hollow punch
- Plastic case



Order No.	Regular Price	SALE
KS5066000	381.42	286.06

6856

PRM PRO Brass Hammers

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



			Fiberglass			Wood		
Head Weight	Head Diameter	Overall Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
1 lbs	1"	12"	-	-	-	KY402001	39.77	29.82
1 1/2 lbs	1 1/4"	14"	-	-	-	KY402015	53.82	40.36
2 lbs	1 1/2"	14"	KY401002	73.41	55.05	KY402002	55.38	41.53
3 lbs	1 5/8"	14"	KY401003	90.20	67.65	KY402003	67.20	50.40
4 lbs	1 3/4"	14"	KY401004	110.23	82.67	KY402004	84.91	63.68
5 lbs	1 7/8"	14"	KY401005	122.57	91.92	KY402005	97.80	73.35
8 lbs	2 3/8"	36"	KY401008	189.08	141.81	KY402008	171.73	128.79
10 lbs	2 1/2"	36"	KY401010	226.82	170.11	-	-	-
12 lbs	2 1/2"	36"	-	-	-	KY402010	201.21	150.90

6941

PIN PUNCHES

- Two-piece design allows the tip to be hard for durability, while allowing it to be produced straight to help prevent binding
- Reverse taper to help prevent binding
- Made from S2 steel and heat-treated
- Modified parabolic striking end to help reduce mushrooming and chipping
- Black oxide finish
- A polished identification on flats marked with the tool number



Pin Punch							
Tip Diameter	Blade Length	Overall Length	Body Diameter	Model No	Order No.	Regular Price	SALE
1/16"	3/4"	4"	1/4"	J471/4X1/16	KP4260300	6.92	5.53
3/32"	1 5/16"	4 3/4"	1/4"	J471/4X3/32	KP4260305	7.23	5.78
1/8"	1 3/16"	6"	5/16"	J475/16X1/8	KP4260315	7.40	5.92
5/32"	1 7/16"	5 1/2"	5/16"	J475/16X5/32	KP4260320	8.57	6.85
3/16"	1 5/8"	6"	3/8"	J473/8X3/16	KP4260310	7.46	5.96
7/32"	1 7/8"	6"	3/8"	J477/16X7/32	KP4260325	10.75	8.60
1/4"	2 1/8"	6 3/4"	3/8"	J471/2X1/4	KP4260295	10.77	8.61

7318

TITAN 5 Pc. General Hammer Set

- Comfortable, textured handles for handling ease
- Contains 1 of each
 - 16 Oz ball pein hammer
 - 32 Oz ball pein hammer
 - 32 Oz rubber mallet
 - 3 Lb. sledge hammer
 - 3 Lb. cross pein hammer



Set Includes	Order No.	Regular Price	SALE
(1) 16 oz and (1) 32 oz Ball Pein Hammer; (1) 32 oz Rubber Mallet; (1) 3 lbs Sledge Hammer; (1) 3 lbs Cross Pein Hammer	KP8263125	126.51	75.90
(1) 16 oz and (1) 32 oz Ball Pein Hammer; (1) 32 oz Rubber Mallet; (1) 3 lbs Sledge Hammer; (1) 3 lbs Cross Pein Hammer	KP8263125	126.51	75.90

7893

HAND TOOLS



6 Pc. Screwdriver Set

- Cushion-Grip handle for greater torque and comfort
- Premium chrome-plated
- Internal flanges inside handle provide solid, twist-resistant blade anchor
- Special heat-treated shafts and non-magnetic bits
- Precision-machined tip for exact fit
- Tip-Ident® quickly identifies the screwdriver type and tip orientation



Number of Pieces	Sizes Included	Manufacturer No	Order No.	Regular Price	SALE
6	3/16" Cabinet; 1/4" and 5/16" Keystone and #1, #2 and #3 Phillips	85074	KP6011775	85.82	68.65

28845



6 Pc. Phillips® Screwdriver Set

Features:

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



Order No.	Regular Price	SALE
KP30100P6PD	82.15	49.29

25003



Wiss Shears & Scissors

Easy Snip Utility Shears

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



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	26.66	19.99
8 1/2"	4"	Easy Snip Shears	LA50WEZSNIP	25.39	19.04
10 1/2"	4 3/4"	Heavy Duty Industrial Shears	LA5020	71.45	53.58
12 1/2"	6"	Heavy Duty Industrial Shears	LA5022	79.72	59.79

25564



11 Pc. Insulated Tool Set

A Must for SAFE Electrical Repair

- 1000 Volt Rated
- (1) - 8" Combination linemans pliers
- (1) - 6-1/2" Long nose pliers
- (1) - 8" Long nose pliers
- (1) - 6-1/2" Diagonal cutters
- (1) - 8" Heavy duty high leverage cutter
- (1) - Canvas tool bag (made in USA)
- 6 Pc. Insulated screwdriver set - phillips & slotted (made in Germany)
- Tested & approved for the following standards: VDE 0680-201, ASTM F-1505-01, EN 60900



Order No.	Regular Price	SALE
KN5432977	271.12	203.34

While supplies last

28731



Inspection Mirrors

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



Mirror Diameter	Shape	Overall Length	Model No	Order No.	Regular Price	SALE
7/8"	Circular	7 1/2"	J2370	KP4270305	8.71	6.96
2 1/4"	Circular	10"-14"	J2372	KP4270315	12.75	10.20
1 1/4"	Circular	8"	J2374	KP4270325	9.02	7.21
1 x 2	Oval	8 3/4"	J2371	KP4270310	8.71	6.96
2-1/8 x 3-1/2	Rectangular	11 1/4"-15 1/2"	J2373	KP4270320	12.75	10.20

4891



Magnetizer/Demagnetizer

- Use (+) opening to magnetize
- Use (-) opening to demagnetize



Order No.	Regular Price	SALE
KN5440010	7.19	5.39

25514



Ratchets

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



Drive Size	Overall Length	Head Style	Handle Type	Made In	Order No.	Regular Price	SALE
1/4"	5"	Round, Pear, Flex Head, & Open Head	Smooth	Taiwan	KP3030001	26.67	16.00
3/4"	20"	Narrow Pear	Plain	China	KP30H51B	178.32	106.99
3/8"	9 3/4"	Narrow Pear	Smooth	USA	KP30B52EHFB	76.32	45.79

7598

Young Bros. Heavy Duty Combination Stamps Sets

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



Character Size	Square Size	Overall Length	Weight	Order No.	Regular Price	SALE
1/32"	1/4"	2 3/8"	2 lbs	KF5000363	216.30	129.78
1/16"	1/4"	2 3/8"	2 lbs	KF5001363	170.98	102.58
3/32"	5/16"	2 1/2"	3 lbs	KF5002363	170.98	102.58
1/8"	5/16"	2 1/2"	3 lbs	KF5003363	170.98	102.58
5/32"	3/8"	23/4"	4 lbs	KF5004363	192.61	115.56
3/16"	3/8"	2 3/4"	4 lbs	KF5005363	202.91	121.74
1/4"	7/16"	3"	6 lbs	KF5006363	233.81	140.28
5/16"	1/2"	3"	8 lbs	KF5007363	292.52	175.51
3/8"	9/16"	3 1/8"	11 lbs	KF5008363	335.78	201.46
1/2"	3/4"	3 3/4"	28 lbs	KF5009363	534.57	320.74

8077

TEKTON Cold Chisels

- Forged and machined from premium, high carbon steel
- Rough ground after forging, a second sharpening after heat treating produces a high-performance cutting edge
- Individual heat treatment allows the right balance of a hardened edge with a softer striking end
- Classic natural finish has a dry-touch, rust-preventative coating



Cut Size	Blade Width	Length	Order No.	Regular Price	SALE
3/8"	0.3"	5 1/4"	KP8566003	12.80	8.32
7/16"	0.4"	5 1/2"	KP8566004	13.63	8.85
1/2"	0.4"	6"	KP8566005	14.73	9.57
5/8"	1/2"	6 1/2"	KP8566006	17.15	11.14
3/4"	0.6"	7"	KP8566007	20.42	13.27
7/8"	0.8"	7 1/2"	KP8566008	24.72	16.06

7844

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

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



Order No.	Regular Price	SALE
PR0450005	81.37	61.02

28815



Lineman's Pliers

- 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



KP6011025



KP6011055



KP6011060

Overall Length	Jaw Width	Jaw Length	Jaw Thickness	Side Cutter	Handle Style	ManufacturerNo	Order No.	Regular Price	SALE
9"	1-1/4"	1-19/32"	5/8"	Yes	Hvy Plastic Dip Red	HD2000-9NE	KP6011055	70.20	56.16
9"	1-1/4"	1-19/32"	5/8"	Yes	PL Dip Glow in Dark	D20009NEGLW	KP6011025	70.20	56.16
9 1/2"	1-1/4"	1-19/32"	5/8"	Yes	Journeyman Blk/Blue	J2000-9NE	KP6011060	68.66	54.92

28921

GENERAL Side Lock Utility Knife

- Opens instantly to any one of three cutting positions
- Blade retracts into handle for safety
- Has five replaceable heavy-duty alloy steel blades in handle



Overall Length	Order No.	Regular Price	SALE
6"	NE50855	10.09	7.56

6673

SPELLMACO Transfer Punch Set with Indexed Stand

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



Order No.	Regular Price	SALE
KH50317	119.06	89.29

7673

bolle SAFETY IRI-s

With Dioptic Corrective Lenses

- Universal safety spectacle that is modular and infinitely adaptable to every individual thanks to the B-flex shape memory bridge
- Pivoting, non slip & ergonomic temples
- Clear version with reading area
- PLATINUM® anti-fog/anti-scratch coating



Magnification	Frame Color	Lens Color	Order No.	Regular Price	SALE
1.5x	Black & Red	Clear	BO1540187	16.34	12.25
2.0x	Black & Red	Clear	BO1540188	16.34	12.25
2.5x	Black & Red	Clear	BO1540189	16.34	12.25
3.0x	Black & Red	Clear	BO1540190	16.34	12.25

2500

bolle SAFETY RUSH+

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



Lens Color	Frame Color	Order No.	Regular Price	SALE
Smoke	Black & Grey	BO1540208	15.74	11.80
Brown	Black & Grey	BO1540209	16.50	12.37
Twilight	Black & Grey	BO1540225	15.74	11.80
Clear	Yellow & Black	BO1540243	15.74	11.80
Smoke	Yellow & Black	BO1540244	15.74	11.80
Brown	Yellow & Black	BO1540245	16.50	12.37
Clear	Blue & Green	BO1540256	15.74	11.80
Smoke	Blue & Green	BO1540257	15.74	11.80
Clear	Black & Phosphorus Green	BO1540292	17.24	12.93
Brown	Grey	BO1540294	16.50	12.37
Clear	Black & Red	BO1541080	15.74	11.80

2506

bolle SAFETY NITRO

- Has spherical lens that offers brilliant optics and peripheral vision
- Ultra low-profile
- Large adjustable strap



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Translucent	BO1540095	20.49	15.36

2501

bolle SAFETY ATOM

- Extremely compact and comfortable
- TPR frame
- Material: Polycarbonate



Order No.	Regular Price	SALE
BO1540093	12.42	9.31

29786

3M 3M™ BX™ Protective Eyewear with Readers

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



Lens Color	Frame Color	Magnification	Order No.	Regular Price	SALE
Clear	Silver	1.5x	KB3511374	24.46	22.01
Clear	Silver	2.0x	KB3511375	24.46	22.01
Clear	Silver	2.5x	KB3511376	24.46	22.01

2391

3M 3M™ Lexa™ Dust GoggleGear™

- Aspheric lens provides expansive coverage and a virtually unobstructed viewing range
- Foam flange seals entire lens perimeter
- Top and bottom vent channels to increase airflow
- Flame retardant, elastic headstrap
- Polycarbonate lens absorbs 99.9% UV



Size	Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Medium	Clear	Anti-Fog	Black	KB3562330	16.51	14.85
Large	Clear	Anti-Fog	Black	KB3562331	17.86	16.07

2410

MCR SAFETY SR1®

- Non-slip co-injected soft temple material
- Wider temples for better side protection
- Soft secure TRP nose pad
- Rugged polycarbonate lens filters 99.9% UV rays
- Exclusive Duramass® scratch resistant coating



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Fog & Scratch Resistant	Clear	KB85SR140AF	9.89	6.42
Gray	Anti-Fog & Scratch Resistant	White	KB85SR122AF	10.54	6.85
Gray	Polarized Scratch Resistant	Black	KB85SR112Z	33.35	21.67
Amber	Scratch Resistant	Black	KB85SR114	9.01	5.85
Blue Mirror	Scratch Resistant	Clear	KB85SR148B	11.59	7.53
Clear	Scratch Resistant	Black	KB85SR110	9.04	5.87
Clear	Scratch Resistant	White	KB85SR120	8.37	5.44
Clear	Scratch Resistant	Red	KB85SR130	8.37	5.44
Fire Mirror	Scratch Resistant	Red	KB85SR13R	11.59	7.53
Gray	Scratch Resistant	Black	KB85SR112	9.68	6.29

2544

ISOtunes ISO Pro Aware Earplugs

- Aware Technology™ offers complete situational awareness and protection from harmful noises.
- ANSI-certified 25 dB NRR
- OSHA-compliant hearing protection
- SafeMax™ Technology limits volume output to 85dB.
- Up to 13 hours of battery life
- Up to 25 additional hours with charging case
- IP67 durability for dust, sweat, and waterproof protection
- Background noise-reducing microphone for clear communication in loud environments
- Bluetooth 5.2 connects devices up to 30 feet.
- Siri/Google Voice Compatible
- Automatic Power Off after 2 hours without Bluetooth connection for battery conservation
- True Wireless Design



new product

Type	Noise Reduction Rating	Style	Color	Order No.	Regular Price	SALE
Ear buds	ANSI-certified 25 dB NRR	Un-corded	Lime/Black	HT015015	205.99	179.00

30836

MCR SAFETY BK1®

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



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Uncoated	Clear	KB85BK010	2.40	1.44
Clear	Scratch Resistant	Clear	KB85BK110	2.55	1.65
Clear	Anti-Fog & Scratch Resistant	Clear	KB85BK110AF	3.40	2.21
Gray	Scratch Resistant	Gray	KB85BK112	2.55	1.65
Light Blue	Scratch Resistant	Light Blue	KB85BK113	3.19	2.07
Mirrored	Scratch Resistant	Clear	KB85BK119	3.19	2.07

2529

MCR SAFETY Faceshields & Headgear

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



Head Gear			
Width	Order No.	Regular Price	SALE
6-1/2" to 7-3/4"	KB85103	14.81	9.62

Face Shield						
Shield Width	Shield Height	Shield Thickness	Shield Material	Order No.	Regular Price	SALE
15 1/2"	8"	0.040"	Polycarbonate	KB85181640	4.17	2.71
15 1/2"	10"	0.040"	Polycarbonate	KB85101640	4.38	2.84

2535

MCR SAFETY LAW® Safety Glasses

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



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Clear	KB85LW110	3.48	2.26
Gray	Gray	KB85LW112	3.48	2.26

2538

ISOtunes ISO Link Aware Ear Muffs Green

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



new product

Type	Noise Reduction Rating	Style	Color	Order No.	Regular Price	SALE
Ear Muff	ANSI-certified 25 dB NRR	Ear Muff	Lime/Black	HT015034	144.19	119.00

30837

BAUSCH + LOMB Pre-Moistened Lens Cleaning Tissues

- Non-silicone based, anti-fog, anti-static, individually packaged tissues treated with special surfactants clean all glass and plastic lenses
- 100 Tissues per box



Order No.	Regular Price	SALE
KA408574GM	14.81	11.10

22761

UDD Anser™ Semi-Rimless Safety Glasses

- 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+



Lens Color	Lens Coating	Frame Color	Order No.	Regular Price	SALE
Clear	Anti-Scratch	Black	PP1018530	5.15	4.12
Clear	Anti-Scratch / Anti-Fog	Black	PP1018535	5.61	4.48
Gray	Anti-Scratch	Black	PP1018540	5.59	4.47
Light Blue	Anti-Scratch	Black	PP1018545	5.59	4.47
I/O	Anti-Scratch	Black	PP1018550	5.82	4.65
Blue	Anti-Scratch	Black	PP1018555	7.93	6.34

29835

PYRAMEX Cortez Safety Glasses

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



Lens Color	Frame Color	Order No.	Regular Price	SALE
Clear	Black	KB54SB3610S	4.18	2.92
Clear	Orange	KB54SO3610S	4.18	2.92

24521

RPB Z-Link+ & Z-Link Respirator Kits for Welding & Grinding

The RPB® Z-Link® is the most versatile respirator on the market serving the widest spectrum of industries and applications from welding and grinding, to chemical handling. With countless customizations you can wear it your way. Add, change, or remove features as you choose including five visor types, five cape types, fully adjustable head suspension with five points of adjustment, adjustable airflow, and four additional optional accessories.

- Visor lifter to easily raise and lower the welding visor with large opening.
- Z-Link + for Welding/Grinding & Z-Link for Grinding only
- For extended periods of grinding the visor is easily removed at the hinge points.
- Fixed jaw ensures secure cape attachment.
- Replaceable impact lens and removable ADF lens.
- Anti-fog and scratch resistant ANSI Z87+ visors
- Zytec® Material



Includes	ManufacturerNo	Order No.	Regular Price	SALE
Z-Link Kit - FR Face Seal & C40	16-015-11	RS01Z1245	1089.15	854.98
Z-Link Kit - Face Seal & PX5	16-018-12	RS011601812	1725.18	1354.26
Z-Link+ Kit - FR Face Seal & PX5	16-078-11-FR	RS01Z1310	2209.11	1734.15
Z-Link+ Kit - FR Cape & PX5	16-078-21-FR	RS01Z1315	2222.17	1744.40

29978

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	4.40	3.62
20	KN95RESPP	4.65	3.83

PRICE PER EACH MASK

29356

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	23.89	16.72

2606

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

- Regular (6850)/ Shoulder (6852) Length
- Shell: 100% cotton twill
- Lining: 100% poly fleece
- Hook & loop or chin strap
- Elastic gap control
- Single wash FR treated



Type	Order No.	Regular Price	SALE
Regular Winter Liner	LF656850	10.23	7.16
Shoulder Winter Liner	LF656852	15.29	10.70

2598

One Size Fits All

PRM PRO® Class 2 Hi-Vis Safety Vests

- Class 2
- Reflective tape
- Zipper front closure
- SV80 radio straps both shoulders, 2 pockets with velcro closure and one chest pocket



Size	Yellow/Silver, Zipper			Yellow/Orange/Silver, Zipper		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Medium	KB38SV8030	9.16	6.41	KB38SV8100	12.96	9.07
Large	KB38SV8035	9.16	6.41	KB38SV8105	12.96	9.07
X-Large	KB38SV8040	9.16	6.41	KB38SV8110	12.96	9.07
2X-Large	KB38SV8045	9.16	6.41	KB38SV8115	12.96	9.07
3X-Large	KB38SV8050	9.16	6.41	KB38SV8120	12.96	9.07

2932

Kimberly-Clark Professional WYPALL X80 De-

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



Container Type	Length	Width	Sheets Per Package	Weight	Order No.	Regular Price	SALE
Pop Up Box	16.8"	9.1"	80	12.4 lbs	LM5505930	27.25	20.43
Brag Box	16.8"	12 1/2"	160	6.3 lbs	LM5541041	56.16	42.12
Jumbo Roll	13.4"	12 1/2"	475	14.0 lbs	LM5541043	118.53	88.89

2737

Wrist, Elbow, and Knee Supports

ProFlex® 300 Round Cap Knee Pads

- Rounded cap allows for swiveling and pivoting
- 840D nylon fabric
- Wicked™ treated
- 1/2" EVA padding
- Woven elastic straps
- Velcro or buckle closure



ProFlex® 500 Elbow Support

- Durable construction for tough environments
- Provides wide base of support
- Effective relief from pain and discomfort



ProFlex® 4000 Wrist Support

- Fully-adjustable for an exact fit
- Patented open-center stay™ reduces pressure on the median nerve
- Anti microbial interior fabric
- Sold individually; specify left or right

Knee Pads			
Size	Order No.	Regular Price	SALE
One Size	LF65300B	35.96	25.17
One Size	LF65300V	33.99	23.79

Wrist Support				
Size	Hand	Order No.	Regular Price	SALE
Large	Left	LF654000LL	18.84	13.18
Medium	Left	LF654000LM	18.84	13.18
Large	Right	LF654000RL	18.84	13.18
Medium	Right	LF654000RM	18.84	13.18

Elbow Support			
Size	Order No.	Regular Price	SALE
Large	LF65500L	15.95	11.16
Medium	LF65500M	15.95	11.16
X-Large	LF65500XL	15.95	11.16

23185

Contender 7ga. Aramid Blend Cut-Resistant Glove

- Uncoated 7ga. high ANSI A6 cut resistant Kevlar composite knit.
- Great for handling heavy metal stampings & parts work.
- Available in sizes X-Small thru X-Large.



Size	Color	Cut Rating	Order No.	Regular Price	SALE
Medium	Yellow	ANSI A6	SG021175	13.27	9.95
Large	Yellow	ANSI A6	SG021180	13.27	9.95

30699

Cutban Cut Resistant Sleeve

- Double-layer high-tenacity ANSI A2 cut rated filament-yarn both durable & comfortable.
- Available in 12", 14", 18" & 22" long.
- Also available With-Thumbhole & XL width.



Size	Color	Material	Cut Rating	Type	Length	Order No.	Regular Price	SALE
Large	Black	HPPE	ANSI A2	Sleeve	18"	SG023005	6.31	4.73

30700

Emerald CX Foam Nitrile Coated 10ga. Steel-Filament Fibers Cut

- Heavy-duty ANSI A6 cut resistant 10ga. Stainless-Steel base composite filament knit shell.
- Foam nitrile has excellent dry, wet, & oily parts grip.
- Good dexterity & abrasion resistance from the specially formulated for heavy metal stamping.
- High ANSI Level 5 puncture rating.
- Treated with Ultra-Fresh anti-microbial treatment to enhance healthy long-life performance.
- Available in sizes 2X-Small thru 2X-Large.



Size	Material	Color	Cut Rating	Puncture Rating	Order No.	Regular Price	SALE
Medium	Blended Steel	Black	ANSI A6	ANSI Level 5	SG021410	20.48	15.36
Large	Blended Steel	Black	ANSI A6	ANSI Level 5	SG021415	20.48	15.36
X-Large	Blended Steel	Black	ANSI A6	ANSI Level 5	SG021420	20.48	15.36

30704

SHOWA 306

- Enhanced grip and abrasion resistance
- Ergonomic design replicates a hands natural curvature
- Enhanced breathability and reduced perspiration
- Premium fit and soft comfort
- Impermeability defies liquids
- Coating: natural rubber
- Liner: Polyester/Cotton/13-gauge
- Color: blue/black palm



Size	Order No.	Price
Small	SG2501940	9.39

30882

Emerald CX Latex Coated 13ga. Kevlar-Steel Cut Resistant Glove



Size	Color	Material	Cut Rating	Type	Order No.	Regular Price	SALE
Medium	Green	Blended Steel	ANSI A4	Glove	SG021355	11.33	8.49
Large	Green	Blended Steel	ANSI A4	Glove	SG021360	11.33	8.49
X-Large	Green	Blended Steel	ANSI A4	Glove	SG021365	11.33	8.49

30702

Dexterity Polyurethane Coated 13aa. Kevlar Blend Cut

- Superior cut resistance with light weight construction.
- Non-marring coating with great grip, dexterity and touch sensitivity.
- Available in sizes 2X-Small thru 3X-Large



Size	Color	Material	Cut Rating	Type	Order No.	Regular Price	SALE
Medium	Yellow	Para-Aramid	ANSI A4	Glove	SG021250	10.82	8.11
Large	Yellow	Para-Aramid	ANSI A4	Glove	SG021255	10.82	8.11
X-Large	Yellow	Para-Aramid	ANSI A4	Glove	SG021260	10.82	8.11

30703

Dexterity Foam Nitrile Coated 13aa. Kevlar Blend Cut Resistant Glove

- Economical blend of Kevlar and other durable fibers.
- Foam nitrile offers great dry, wet, and oil grip.
- Available in sizes 2X-Small thru 2X-Large.



Size	Color	Material	Abrasion Rating	Cut Rating	Puncture Rating	Coating	Type	Order No.	Regular Price	SALE
Medium	Yellow	Para-Aramid	ANSI Level 3	ANSI A3	ANSI Level 3	Foam Nitrile	Glove	SG021205	8.12	6.09
Large	Yellow	Para-Aramid	ANSI Level 3	ANSI A3	ANSI Level 3	Foam Nitrile	Glove	SG021210	8.12	6.09
X-Large	Yellow	Para-Aramid	ANSI Level 3	ANSI A3	ANSI Level 3	Foam Nitrile	Glove	SG021215	8.12	6.09

30701

Honeywell NORTH NorthFlex-Oil Grip Gloves

- Lightweight, 13-gauge nylon seamless knit glove • Foam nitrile coating features microscopic pockets that disperse fluid away from the surface for excellent grip and control
- Handling of fine products in a greasy or damp atmosphere • Color: Green/Black

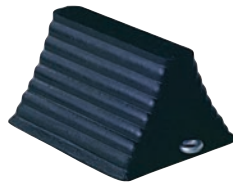


Size	Order No.	Price
X-Large	KB65NF3510XL	8.10

30883

Certina Wheel Chock

- Loading docks, warehouses, etc.
- Available with 12" chain
- Weight: 9 lbs.



Type	Order No.	Regular Price	SALE
Wheel Chock	LF452048WC	27.58	20.68
Wheel Chock with Chain	LF452048WCC	36.07	27.05

2526

Honeywell NORTH NorthFlex Red

- Lightweight, 15-gauge nylon glove with foam PVC coating on palm and fingertips, no coating on back of hand for added ventilation • Color: Red nylon and black PVC



Size	Order No.	Price
X-Large	KB65NF1110XL	4.72

30884

Koehler BrightStar Freakin' Beacon™ Flasher

- 5 COLORS: Red, Blue, Amber, White and Green
- Green color runs 36 hrs. on steady, 144 hrs. on flash.
- Blue color runs 48 hrs. on steady, 192 hrs. on flash.
- Red, Amber, White colors run on 65 hrs. on steady, 200 hrs. on flash.
- Uses 2 AAA batteries (not included)
- Class I, Div 1
- Waterproof IP67
- 3M Dual Lock included
- Light visible from 1000+ feet
- Drop rated to 2 meters
- Optional helmet band for metal, plastic and spring clips
- Limited Lifetime warranty
- LENGTH: 2.7" WIDTH: 2.6" HEIGHT: 1.5"



LED Color	Lumens Range	Battery Size	Metal Clasp			Plastic Spring			Plastic Solid			Magnet		
			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	47.99	42.01	KN0171010A	47.99	42.01	KN0171020A	47.99	42.01	KN0171030A	47.99	42.01
Blue	25/strobe	AAA	KN0171000B	47.99	42.01	KN0171010B	47.99	42.01	KN0171020B	47.99	42.01	KN0171030B	47.99	42.01
Green	25/strobe	AAA	KN0171000G	47.99	42.01	KN0171010G	47.99	42.01	KN0171020G	47.99	42.01	KN0171030G	47.99	42.01
Red	25/strobe	AAA	KN0171000R	47.99	42.01	KN0171010R	47.99	42.01	KN0171020R	47.99	42.01	KN0171030R	47.99	42.01
White	25/strobe	AAA	KN0171000W	47.99	42.01	KN0171010W	47.99	42.01	KN0171020W	47.99	42.01	KN0171030W	47.99	42.01

29684

ipg ProLite™ High Performance, Hand-Applied Stretch Film

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



Width	Length	Gauge	Order No.	Regular Price	SALE
18"	1,500 feet	60-80	LF5200457	30.69	23.01

2727

Honeywell LIGHT Sync Stereo Earmuff

- Use as passive hearing protector or as stereo earmuffs
- No volume knobs or power switches to coordinate nor batteries to replace
- Ease-of-use is enhanced by maintaining volume and power control through the external device
- Can be used with MP3 players, mobile phones, and other personal listening devices
- Simply plug in device and listen



Noise Reduction Rating	Order No.	Regular Price	SALE
25 dB	LF501030110	68.04	51.03

† While supplies last

23321

Honeywell HEAVY DUTY **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



Style	Standard Pack	Order No.	Regular Price	SALE
Uncorded	200	LF50LL1	0.21	0.15
Reusable / Uncorded	500	LF50LL1D	0.19	0.14
Corded	100	LF50LL30	0.39	0.29

Price per each

23322

Honeywell HEAVY DUTY **Disposable Earplugs**

- Contoured shaped is easier to insert, resists tendency to back out of ear canal
- Polyurethane foam enhances comfort, especially for long term wearer
- Ideal for people with smaller ear canal
- Sold 100 per box
- Price per each



Noise Reduction Rating	Style	Order No.	Regular Price	SALE
33 dB	Corded	LF50MAX30	0.45	0.33

Compliance: ANSI S3.19-1974

25

DAZOR **Machine Arm Wide-Beam Reflector Lights**

- Rugged industrial heavy duty construction
- Double arm design or flexarm
- Wide beam for better light coverage
- Power coat paint that resists cracks, scuffs and fading
- Includes 75 watt bulb but approved up to 100 watt bulb



Overall Length	Arm Style	Order No.	Regular Price	SALE
26"	Gooseneck	KC501075	309.65	232.23
39"	Machine	KC501100	357.41	268.05
28"	Machine	KC501101	337.89	253.41

23054

BAYCO Innovation Made Better™ **Multi-Purpose Rechargeable Work Light**

- **Bulb:** LED
- **Run time:** 4-1/2 hrs High, 12-1/2 hrs Low
- **Lumens:** 600 High, 225 Low
- **Battery:** Rechargeable Lithium-ion
- **Features:** 3 integrated magnets for hands free use, detachable magnetic hook, IP-X4 water-resistant, AC/DC chargers included, 6 hour charge time
- 1 Year limited warranty



Order No.	Regular Price	SALE
KE58SL2168B	81.89	57.32

2479

Honeywell HEAVY DUTY **Fusion® Reusable Earplugs**

- Patented dual material design
- Unique detachable cord system
- Includes HearPack® hard plastic kidney shaped case
- SoftFlange® design delivers unmatched comfort and attenuation
- Sold by box of 100 pair only (priced per each pair)



Noise Reduction Rating	Color	Size	Standard Pack	Order No.	Regular Price	SALE
27 dB	Blue	Small	100	LF50FUS30HP	2.08	1.56
27 dB	Green	Regular	100	LF50FUS30SHP	2.08	1.56

2706

KLEIN TOOLS **Wireless Jobsite Speaker**

- Connects wirelessly via Bluetooth or a wired auxiliary input
- 32.8-foot (10 m) connectivity range (in open space)
- 10-Hour battery life
- Drop protected up to 6.6-foot (2 m)
- Powerful rear magnet holds speaker to metal surfaces (panels, ducts, etc.)
- 1/4-20 threaded mount on bottom allows attachment to any standard tripod
- Rated IP45 water/dust resistant
- Able to answer calls hands-free with the built-in speakerphone
- Includes 1/8-Inch (3.5 mm) stereo auxiliary cable and micro USB-to-standard USB charging cable



Type	Wattage	Color	ManufacturerNo	Order No.	Regular Price	SALE
Wireless	5 W	Orange, Black, Gray	AEPJ51	KP6040000	57.68	46.14

28842

Koehler BrightStar **Intrinsically Safe Razor LED**

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



Body Color	Order No.	Regular Price	SALE
Hi Vis Green	KN0160101	35.33	26.49
Orange	KN0160102	35.33	26.49

2744

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	1.00	0.72

PRICE PER EACH MASK

29357



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	66.07	39.64
Hardwound Roll	7.875"	350'	1	Natural	12 Rolls	-	RC0110105	51.71	31.03
Hardwound Roll	7.875"	800'	1	White	6 Rolls	-	RC0110110	70.56	42.34
Hardwound Roll	7.875"	800'	1	Natural	6 Rolls	-	RC0110115	57.66	34.60
Hardwound Roll	7.875"	700'	1	White	6 Rolls	-	RC0110120	64.74	38.84
Hardwound Roll	7.875"	700'	1	Natural	6 Rolls	-	RC0110125	49.93	29.96
Kitchen Roll	11"	8"	2	White	12 Rolls	250 RL	RC0110130	58.56	35.14
Kitchen Roll	11"	7.8"	2	White	30 Rolls	85 RL	RC0110135	60.20	36.12
Center Pull	10"	7.3"	2	White	6 Rolls	600 RL	RC0110140	59.77	35.86
C-Fold	10"	11.42"	1	White	10 pks	200 PK	RC0110145	50.62	30.37
Multi-Fold	9"	9.45"	1	White	16 pks	250 PK	RC0110150	65.18	39.11
Multi-Fold	9"	9.45"	1	Natural	16 pks	250 PK	RC0110155	46.40	27.84
Single Fold	9"	9.45"	1	White	16 pks	250 PK	RC0110160	50.83	30.50

28724

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	103.46	62.08
Standard	4.5"	4"	1.5"	2	145.8'	500	96	RC0110170	130.50	78.30
Jumbo	3.25"	8"	3.5"	2	700'	-	12	RC0110180	55.72	33.43
Jumbo	3.3"	8.75"	3.25"	2	1000'	-	12	RC0110175	74.71	44.83

28724

Right Choice® Facial Tissue

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

SAVE 40%



Sheet Size	Ply	Sheets per Package	Color	Order No.	Regular Price	SALE
7.25" x 8.5"	2	100	White	RC0110185	70.64	42.38

28733



- RIGHT PRODUCTS. ✓**
- RIGHT QUALITY. ✓**
- RIGHT VALUE. ✓**
- RIGHT CHOICE. ✓**

WEILER Upright Brooms

- Fiber brooms are for rough surfaces and corn brooms are for smooth
- Both can be used in wet or dry applications



Trim Length	Bristle Material	Order No.	Regular Price	SALE
7 1/2"	Plastic	LD5344305	15.33	9.96
10"	Palmyra	LD5344007	30.51	19.83
15"	Corn Fiber	LD5344009	19.07	12.40
18"	Corn Fiber	LD5344008	17.29	11.24

3218

WEILER Coarse Sweeping

- Non-absorbent - oil resistant - wash easily
- Wet or dry sweeping
- Lacquered hardwood block
- Two threaded handle holes



Overall Length	Trim Length	Bristle Material	Order No.	Regular Price	SALE
18"	3 1/4"	Synthetic Fill/Oil Resistant	LD5325238	15.18	9.87
24"	3 1/4"	Synthetic Fill/Oil Resistant	LD5325239	22.30	14.50
24"	3"	Tampico Fiber	LD5342135	38.82	25.23

3209

Handles Sold Separately

WEILER Perma Sweep™ Brooms

- These rugged Perma-Sweeps™ have 2-3 times the life of ordinary sweeps
- Tough synthetic block will not split, crack, or warp
- The synthetic fill is chemical and solvent resistant
- Wet or dry application



				Push Broom Head			Push Broom Head with Handle		
Overall Length	Style	Bristle Color	Trim Length	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
18"	Fine	Green	3"	LD5342163	18.73	12.17	LD53GR18H	-	16.06
18"	Heavy	Maroon	3"	LD5342167	18.73	12.17	LD53MA18H	31.35	20.38
18"	Medium	Yellow	3"	LD5342165	18.73	12.17	LD53YE18H	24.70	16.06
24"	Fine	Green	3"	LD5342164	25.99	16.89	LD53GR24H	-	18.81
24"	Heavy	Maroon	3"	LD5342168	25.99	16.89	LD53MA24H	24.70	16.06
24"	Medium	Yellow	3"	LD5342166	25.99	16.89	LD53YE24H	31.35	20.38

3215

WEILER Floor Brush Handles

- Lacquered hardwood
- Standard threads



Length	Tip Material	Order No.	Regular Price	SALE
5 feet	Wood	LD5344018	7.53	4.89
5 feet	Steel	LD5344300	8.07	5.25
5 feet	Vinyl	LD5344301	9.05	5.88

3211

WEILER Industrial Scrub Brushes



Overall Length	Bristle Size	Bristle Material	Order No.	Regular Price	SALE
8"	2"	Tampico	LD5025262	5.72	3.72
20"	2"	Tampico	LD5025263	8.15	5.30

3213

WEILER Fine Sweeping

- Lacquered hardwood block
- Two threaded handle hold
- For sweeping smooth surfaces, tile, wood, linoleum and smooth concrete



Overall Length	Trim Length	Bristle Material	Order No.	Regular Price	SALE
24"	3"	Tampico Fiber	LD5342002	50.65	32.92
24"	3"	Synthetic	LD5342042	25.94	16.86

3222

Handles Sold Separately

WEILER Truck Wash Brush

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



Brush Length	Brush Width	Bristle Size	Bristle Material	Order No.	Regular Price	SALE
9 1/2"	2 3/4"	3"	Polystyrene	LD5344510	22.43	14.58

3220

WEILER Garage Brush

- Stiff Palmyra fiber is highly recommended for wet or dry sweeping on rough concrete or wood floors
- Lacquered hardwood block
- Two threaded handle holes



Overall Length	Trim Length	Bristle Material	Order No.	Regular Price	SALE
24"	4"	Palmyra	LD5342023	21.34	13.87

3212

Handles Sold Separately

WEILER Counter Dusters

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



Style	Bristle Size	Bristle Color	Overall Length	Order No.	Regular Price	SALE
General Purpose	2 1/2"	Black	8"	LD5325251	9.29	6.04
Oil Resistant Water Resistant Hand	2 1/2"	Black	8"	LD5325252	7.40	4.81
Oil Resistant Water Resistant	2 1/2"	Orange	9"	LD5342213	9.95	6.47

3210



Canvas Tool Buckets

5109SLR

- Load rated: 150-pounds (68 kg)
- Web strap extends down the side of the bucket
- Heavy duty plastic bottom with drain holes

5104S

- Load rated for 100-pounds (45.4 kg)
- Web handle extends down the sides of the bucket for added strength
- Made of heavy-duty No. 4 canvas
- High-density polyethylene top ring for strength and chemical resistance
- Leather reinforced bottom
- Inside pocket measures 8-Inch x 8-Inch (203 x 203 mm)

5104FR

- Made of flame-resistant No. 4 canvas
- Load rated for 100-pounds (45 kg)
- Durable leather-reinforced handle extends down the sides of the bucket for added strength
- Stitched and riveted with a double-reinforced bottom for durability
- Meets the performance requirement of NFPA -701

5104CLRFR

- Made of flame-resistant No. 4 canvas
- Extended canvas top zips closed for overhead lifting
- Load rated for 100-pounds (45 kg)
- Stitched and riveted with a double-reinforced bottom for durability
- Drop-forged steel locking carabiner for added safety
- Meets the performance requirement of NFPA -701

5104CLR22

- Load rated 150-pounds (68 kg)
- Top of bucket zips closed
- 14-inch (356 mm) diameter accommodates standard 5-gallon (18.93 L) bucket
- Body constructed of heavy-duty No. 1 canvas
- Web strap extends down the side of the bucket
- Leather reinforced bottom extends 3-Inch (76 mm) up the side
- Durable steel rim



KP6012865
KP6012855



KP6012840



KP6012850
KP6012845

Width	Length	Height	Color	ManufacturerNo	Order No.	Regular Price	SALE
12"	15"	15"	Natural	5109SLR	KP6012865	85.76	68.60
12"	17"	17"	Natural	5104S	KP6012855	130.19	104.15
12"	17"	17"	Black	5104FR	KP6012850	151.39	121.11
12"	17"	17"	Black	5104CLRFR	KP6012845	211.75	169.40
14"	22"	22"	Off-White	5104CLR22	KP6012840	194.75	155.80



Tradesman Pro™ Backpack

- 39 different-sized pockets for tools, parts and gear
- Reflective shoulder straps with extra padding and handle
- Tall interior pockets for long screwdrivers
- Upper pockets holds safety glasses, cell phones, etc
- Zipper pocket for small parts and tools
- Exterior tape thong and tape measure holder
- Fully-molded bottom protects from the elements



Number of Pockets	Width	Length	Height	Color	ManufacturerNo	Order No.	Regular Price	SALE
39	7"	14 1/2"	20"	Black, Reflective Gray, Green Accents	55597	KP6012785	187.91	150.32
39	7"	14 1/2"	20"	Camo	55421BP14CAMO	KP6012910	171.64	137.31

28930



Tradesman Pro™ Tool Master Rolling Tool Bag

- Rugged 8-Inch (203.2 mm) wheels provide high clearance to easily roll over rough terrain
- Hard top allows for stacking materials on top
- Load tested up to 250-Pounds (113 kg)
- Twist-lock Klein LED Light (55437) or Wireless Speaker (AEPJ51) on front mount (items sold separately)
- Heavy-duty telescoping handle
- Exterior webbing and D-rings allow for bungee cord attachment and other add-ons
- Metal latches keep lid closed
- Double lock hasp on hard top
- Water Resistant
- Total of 19 interior and exterior pockets for maximum tool storage



Number of Pockets	Length	Width	ManufacturerNo	Order No.	Regular Price	SALE
19	21-51/64"	15-13/32"	55473RTB	KP6013135	375.85	300.68

28981



Tradesman Pro™ Tech Bag

- Separate compartment keeps laptop protected from other tools
- Storage for adapters and cables
- Zipper pocket for files and paperwork
- Organizer pocket for pens, phone, cables, and more
- 22 pockets for tons of tool storage
- Orange interior to find tools faster
- Protective guards and water resistant material on bottom protects from the elements



Number of Pockets	Width	Length	Height	Color	ManufacturerNo	Order No.	Regular Price	SALE
22	6-1/2"	19"	16"	Black/Orange	55455M	KP6012925	156.00	124.80

28942

PRM PRO® Cargo Tool Bags with Zip Closure

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



Length	Width	Height	Order No.	Regular Price	SALE
18"	9"	11"	LC707697	36.65	23.82
24"	9"	12"	LC707699	40.85	26.55

5487



4 Drawer Tool Chest & Roller Cabinet Combo

- 50 lb. Full-Extension Ball-Bearing Drawer Slides for smooth operation and ease of use
- 29 3/4" x 2" Casters Support 500 lbs.; two lock and swivel
- Gas Struts Support the Chest Lid to easily open and close
- Keyed Internal Locking System safeguards tools
- Recessed Side Handles on tool chest allow for easy lifting
- Non-Slip Open Weave Top Mat protects the cabinet surface
- Middle Chest Adds Storage between the tool chest and rolling cabinet
- Full-Width Black Steel Drawer Trim can be opened anywhere along the drawer
- Each unit sold separately



Tool Cabinet												
Number of Drawers	Drawer Type	Height	Width	Depth	Color	Drawers Sizes	Caster Diameter	Load Capacity	ManufacturerNo	Order No.	Regular Price	SALE
4	Ball Bearing	32"	26.5"	18"	Black	(1) 22x125x16.5x4.125, (3) 22x125x16.5x6.375	4"	500 lbs	ST-ST22742BK	KP436042	363.22	290.57

29387



Fatmax® Open Mouth Tool Bag

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



Height	Width	Length	Model No	Order No.	Regular Price	SALE
12"	10 3/8"	19"	518150M	KP438038	65.83	52.66

29405

PROTO All Purpose Polyester Zipper Tool Bags

- One piece construction of water resistant polyester
- Heavy-duty zipper
- Ideal for storing pliers, wrenches, screwdrivers and other small tools and instruments



Height	Width	Model No	Order No.	Regular Price	SALE
7"	12"	J95305	KP4292240	9.93	7.94

5493

PROTO 20" General Purpose Tool Box

Double Latch

- Height: 9-1/2"
- Depth: 8-1/2"
- Removable tote tray



ManufacturerNo	Order No.	Regular Price	SALE
J9975-NA	KP4295010	69.67	55.73

24512

CRESCENT JOBOX Heavy-Duty Chest

The toughest chests in the world. Designed for premium access, weather resistance, and security, the JOBOX chest yields a plethora of features including four-way skid bolsters, and a visual, three-point locking system. Need help with organization? Check out JOBOX's chest accessories including divider kits and removable trays.

- Grip-Rite™ Lifting Channel
- Site-Vault™ Security System
- Fully Welded Padlock Locking
- EZ-Loader® Skid Bolsters
- Recessed Handles
- Welded Corner Gussets Reinforce Body
- 1" Locking Arms
- Full-Length "A-Frame" Lid Bolster
- Staked and Welded Hinge
- 7-Gauge, One-Piece Bolsters Resist Damage When Dropped



Width	Height	Depth	ManufacturerNo	Order No.	Regular Price	SALE
24"	27-3/4"	48"	1-654990	KN6110095	1138.27	853.70
60"	27-3/4"	24"	1-65590D	KN6110096	1377.66	1033.24

22556

Ships FOB from stocking location

While Supplies Last

PRM PRO Economy Shelf Bins

for 12", 18" & 24" Deep Shelving or Automated Storage & Retrieval Units

- Molded of durable industrial grade polymers years of service
- Special built-in hanglock allows easy access to the entire bin
- Wide label holder molded in
- Available in: (B) blue, (R) red, (S) stone, (Y) yellow - specify bin color when ordering
- UPS dimensional weight shipping rates apply

Optional Shelf Bin Dividers Sold in package quantity of 24 only

Outside Length	Outside Width	Outside Height	Inside Length	Inside Width	Inside Height	Standard Pack	Use Dividers	Yellow			Red			Blue		
								Order No.	Regular Price	SALE	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
11 5/8"	2 3/4"	4"	10 1/4"	1 5/8"	4"	24	-	SD5030110Y	3.99	2.39	SD5030110R	3.99	2.39	SD5030110B	3.99	2.39
11 5/8"	4 1/8"	4"	10 1/4"	3"	4"	24	SD50-40120	SD5030120Y	4.53	2.71	SD5030120R	4.53	2.71	SD5030120B	4.53	2.71
11 5/8"	6 5/8"	4"	10 1/4"	5 1/2"	4"	12	SD50-40130	SD5030130Y	6.93	4.15	SD5030130R	6.93	4.15	SD5030130B	6.93	4.15
17 7/8"	6 5/8"	4"	16 1/2"	5 1/2"	4"	12	SD50-40130	SD5030138Y	8.63	5.17	SD5030138R	8.63	5.17	SD5030138B	8.63	5.17
17 7/8"	8 3/8"	4"	16 1/2"	7 1/8"	4"	12	SD50-40150	SD5030158Y	11.80	7.08	SD5030158R	11.80	7.08	SD5030158B	11.80	7.08

5245

AKROBINS 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.



Outside Length	Outside Width	Outside Height	Inside Length	Inside Width	Inside Height	Standard Pack	Use Dividers	Yellow			Stone			Red			Blue		
								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	2.54	1.52	SD5030210S	2.54	1.52	SD5030210R	2.54	1.52	SD5030210B	2.54	1.52
7 3/8"	4 1/8"	3"	6 3/4"	3 7/16"	2 13/16"	24	SD50-40220	SD5030220Y	4.70	2.82	SD5030220S	4.70	2.82	SD5030220R	4.70	2.82	SD5030220B	4.70	2.82
10 7/8"	5 1/2"	5"	10 1/4"	4 3/8"	4 3/4"	12	SD50-40230	SD5030230Y	11.43	6.85	SD5030230S	11.43	6.85	SD5030230R	11.43	6.85	SD5030230B	11.43	6.85
10 7/8"	11"	5"	10 1/4"	10"	4 3/4"	6	SD50-40230	SD5030235Y	17.63	10.57	SD5030235S	17.63	10.57	SD5030235R	17.63	10.57	SD5030235B	17.63	10.57
10 3/4"	8 1/4"	7"	10"	6 9/16"	6 3/4"	6	SD50-40239	SD5030239Y	18.90	11.34	SD5030239S	18.90	11.34	SD5030239R	18.90	11.34	SD5030239B	18.90	11.34
14 3/4"	8 1/4"	7"	14"	6 9/16"	6 3/4"	12	SD50-40245	SD5030240Y	22.38	13.42	SD5030240S	22.38	13.42	SD5030240R	22.38	13.42	SD5030240B	22.38	13.42
14 3/4"	16 1/2"	7"	14"	14 3/4"	6 3/4"	6	SD50-40245	SD5030250Y	31.52	18.91	SD5030250S	31.52	18.91	SD5030250R	31.52	18.91	SD5030250B	31.52	18.91
18"	8 1/4"	9"	17 1/8"	6 1/2"	8 1/4"	6	SD50-40265	SD5030265Y	37.57	22.54	SD5030265S	37.57	22.54	SD5030265R	37.57	22.54	SD5030265B	37.57	22.54
18"	16 1/2"	11"	17 1/8"	14 7/8"	10 1/2"	3	SD50-40270	SD5030270Y	56.73	34.03	SD5030270S	56.73	34.03	SD5030270R	56.73	34.03	SD5030270B	56.73	34.03

72

DURHAM MFG Horizontal Cylinder Storage Cabinets

- Horizontal cabinets will accept (4) 20 lb. and 33-1/2 lb. LPG cylinders
- Cylinder cradles securely hold propane tanks in place
- Expanded metal sides, back and door, for visibility of contents. 1-1/2" x 1/8" angle iron frame
- DANGER FLAMMABLE MATERIALS signs on each door
- In full compliance with OSHA and NFPA standards when used properly
- Shipped fully assembled



Width	Depth	Height	Number of Shelves	Weight	Order No.	Regular Price	SALE
29 3/4"	30"	34 7/8"	2	133 lbs	SB55EGCC450	864.44	648.33
29 3/4"	30"	71 3/4"	4	203 lbs	SB55EGCC850	1214.74	911.05

5276

Ships By Common Carrier from Manufacturer

DURHAM MFG Sturdy All Steel Parts Bin

- Easy parts access
- Hemmed and ribbed dividers
- Finished in durable gray powder/paint
- No sharp edges
- 1-1/8" Wide label holders
- Large capacity - all units are 12" deep and all bin openings are 11-7/8" deep.



Number of Bins	Width	Depth	Height	Weight	Order No.	Regular Price	SALE
24	33 3/4"	12"	23 7/8"	50 lbs	SB5524B	216.98	162.73
40	33 3/4"	12"	23 7/8"	50 lbs	SB5540B	248.19	186.14
42	33 3/4"	12"	42"	71 lbs	SB5542B	357.45	268.08
56	33 3/4"	12"	42"	75 lbs	SB5556B	385.26	288.94
72	33 3/4"	12"	42"	80 lbs	SB5572B	383.53	287.64

5291

Ship FOB Factory

PRM PRO Standard & Combination Storage Cabinets

- These units are general purpose storage cabinets that provide a level of quality you won't find elsewhere
- Provides secure storage for office supplies, books, records, small parts, tools, etc
- Offers 5 openings with 4 adjustable shelves, a chrome handle with 2 keys and a 2-point locking system for extra security
- 200 lbs capacity per shelf



Number of Shelves	Style	Color	Width	Depth	Height	Weight	Order No.	Regular Price	SALE
7	Knocked-Down	Med Gray	36"	18"	72"	112.0 lbs	RV8260000	1528.50	917.10
5	Knocked-Down	Med Gray	36"	18"	72"	113.0 lbs	RV8260015	1457.64	874.58
5	Knocked-Down	Med Gray	36"	24"	72"	136.0 lbs	RV8260025	1661.99	997.19
5	Welded Set Up	Med Gray	36"	18"	72"	121.0 lbs	RV8260030	1604.77	962.86

* Ships by common carrier

5482

PRM^{PRO} Multi-Purpose Utility Cart

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



Width	Length	Height	Order No.	Regular Price	SALE
32"	37 1/4"	24"	SA7010075	274.08	178.15

24315

PRM^{PRO} Drum Dolly-Non-Marring Caster Wheels

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



For Use With	Drum Capacity	Order No.	Regular Price	SALE
55 Gallon Drums	1,500 lbs	PR05D-LO55M	221.45	166.08

Limited Supply In Stock

30841

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	BH-0211CB	2100.00	1838.55
1000 lbs	73"	33"	54"	Red	1.1 Cubic Yard	BH-0211CR	2163.00	1838.55

Ships FOB mfg. warehouse or DC.

29989

KENNEDY Ultimate Organizer

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



Order No.	Regular Price	SALE
RX5582223	59.87	44.90

5435

RAPIDHOLD[®] CNC Tool Carts

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



Taper Size	Tool Capacity	Weight	Order No.	Regular Price	SALE
40	24	52 lbs	RX8076302	407.76	305.82
50	15	52 lbs	RX8076304	444.45	333.33
HSK 63A	24	52 lbs	RX8076306	510.24	382.68

5508

Vertil Hoppers

Standard Features:

- Includes front bumper release for easy hopper dumping
- Includes manual pull-cable to dump from seat of fork truck
- Hopper returns to upright position automatically after dumping
- Each fork pocket is 7-1/2"W x 2-1/2"H useable
- Safety strap to secure hopper to forklift
- Full-length fork tubes
- Precision robotic welded steel construction
- Durable powder coat blue finish



6,000 lbs						
Overall Width	Overall Height	Overall Length	Fork Pocket Center	Order No.	Regular Price	SALE
41-9/16"	42-3/4"	61-1/8"	18"	RV54D100HD	1809.66	1538.21
56 1/4"	52-1/2"	69"	28"	RV54D200HD	2411.10	2049.43
81 3/4"	50 3/4"	69"	28"	RV54D300HD	3366.02	2861.11

2,000 lbs						
Overall Width	Overall Height	Overall Length	Fork Pocket Center	Order No.	Regular Price	SALE
41 1/4"	42-3/4"	61"	18"	RV54D100LD	1485.19	1262.41
56-11/16"	51-13/16"	68-5/16"	28"	RV54D200LD	1877.65	1596.00

4,000 lbs						
Overall Width	Overall Height	Overall Length	Fork Pocket Center	Order No.	Regular Price	SALE
41 1/4"	42-3/4"	69"	18"	RV54D100MD	1649.00	1401.65
56 1/4"	52-1/2"	69"	28"	RV54D200MD	1996.12	1696.70

Ship FOB factory

5577

Vertil Drum Bung Nut Wrenches

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



Material	Style	Order No.	Regular Price	SALE
Cast Aluminum	Non-Sparking	RV54BNWA	18.52	15.74
Cast Steel	Standard	RV54BNWIXW	35.00	29.75

†Available while supplies last

5564

ANSCH Socket Trays

Trays designed to help you work faster

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



Red, Imperial				
Drive	Socket Size	Order No.	Regular Price	SALE
1/2"	3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"	RX801201	13.34	10.01
1/4"	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8"	RX801401	12.31	8.62
3/8"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	RX803801	12.31	8.62

Gray, Metric				
Drive	Socket Size	Order No.	Regular Price	SALE
1/2"	10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 20 mm, 21 mm, 22 mm, 23 mm, 24 mm, 25 mm, 27 mm	RX801202	13.34	10.01
1/4"	4 mm, 4.5 mm, 5 mm, 5.5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm	RX801402	12.31	8.62
3/8"	6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 20 mm	RX803802	12.31	8.62

5344

PRM PRO Heavy-Duty Tool Trolley

- 300 lbs seating capacity
- 18" seating height
- 1" chrome finished tubular steel constructed frame
- 3" industrial grade hard floor casters, 2 with brakes
- Comfortable 16" x 16" x 3-1/2" thick vinyl fabric over foam seat
- Contoured 12" x 6" x 2-1/2" thick vinyl over foam back
- 12" x 18" x 1-3/4" heavy-duty stamped steel tool tray



29436

Model No	Order No.	Regular Price	SALE
JFC1010	KP4270210	303.99	243.19

Lisle Low Profile Plastic Creepers

Features and Benefits:

- Low profile, 7/8" floor clearance
- Surface is resistant to solvents, greases and fuels
- This has a unique design that is body-fitting to provide comfort for the user
- 2" Longer for a better fit
- The urethane rollers are inserted into the creeper body for ease of use
- Dimensions: 38"L x 17-1/2"W x 4"H



Color	Order No.	Regular Price	SALE
Red	KN6592102	151.13	113.35
Yellow	KN6593102	151.13	113.35
Blue	KN6594102	151.13	113.35

5441

STANLEY 2 Pk. 2 Way Adjustable Saw Horse

- Holds 1000 lbs. capacity per pair
- 2 ways adjustable, folding saw horse
- Smooth slide mechanism for width adjustment
- Anti-slip rubber on feet and top for safety
- Innovative ergonomic mechanism for height adjustment



Height	Width	Overall Length	Model No.	Order No.	Regular Price	SALE
31"	27 7/8"	28 1/8"	STST60626	KP438112	146.90	117.52

5545

PRM PRO Foreman's Closed Style Desk

- 14 Gauge corner posts and heavy steel construction assures long life
- Large storage area with 3-point locking system boasts two shelves for storing tools and other supplies
- Compartmentalized riser is perfect for storing writing utensils, forms and papers
- Drawer and cabinet come with individual locks and keys
- Large sloping surface leaves plenty of room for paperwork and supplies
- Assembly required



Height	Depth	Width	Color	Order No.	Regular Price	SALE
53"	29"	34 1/2"	Gray	RV8266055	2396.33	1198.17

24299

Ships by common carrier F.O.B.

National Public SEATING Corp. Heavy Duty Stools

Specifications:

- 7/8" OD- 18 gauge steel
- 6300 Series - square seat for more room; masonite board recessed into pad of seat
- 6400 Series - 14" round seat, vinyl padded seat and back rest
- 6200 Series - available with optional back rest or can be bought as a stool



Description	Weight	Order No.	Regular Price	SALE
19-27" Adjustable Stool with Backrest	17.0 lbs	RZ406218HB	164.80	115.36
24" Stool with Hardboard Seat	9.0 lbs	RZ406224	89.61	62.73
25-33" Adjustable Stool with Backrest	21.0 lbs	RZ406224HB	170.98	119.69
30" Stool with Hardboard Seat	10.0 lbs	RZ406230	110.21	77.15
19-27" Adjustable Square Stool with Backrest	18.4 lbs	RZ406318HB	206.00	144.20
25-33" Adjustable Square Stool with Backrest	19.5 lbs	RZ406324HB	220.42	154.29
19-27" Adjustable Padded Seat with Backrest	18.0 lbs	RZ406418HB	181.28	126.90
25-33" Adjustable Padded Seat with Backrest	19.0 lbs	RZ406424HB	189.52	132.66

UPS dimensional weight shipping rates may apply

5459

PRM PRO Swivel Tractor Seat

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



Height	Order No.	Regular Price	SALE
18"-22"	RZ454000	265.37	132.69

5484

PRM PRO Heavy Duty Stool with Back Rest

- Red frame / black seat
- Thick big vinyl cushioned 14" seat
- Stool capacity 300 lbs.
- Multiple adjustable backrest
- Powder coated paint
- Ships UPS



Height	Order No.	Regular Price	SALE
31"	RZ451000	269.86	134.93

29385

PRM PRO Heavy Duty Adjustable Stool

- Black frame / red seat
- Cushioned 14" seat red seat with square foot rest
- Stool capacity 300 lbs.
- Air-cylinder adjustable seat, 5" estimate of height differential
- Round foot rest
- Powder coated paint
- Ships UPS

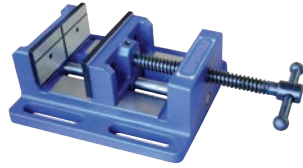


Adjustable Height	Order No.	Regular Price	SALE
26"-31"	RZ451005	213.88	106.94

29386

RAPIDHOLD[®] Low Profile Drill Press Vises

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



Jaw Width	Jaw Opening Capacity	Jaw Height	Weight	Order No.	Regular Price	SALE
3"	3"	1 1/8"	10 lbs	HT968461	42.88	28.10
4"	4"	1 1/2"	15 lbs	HT968462	58.62	38.42
6"	6"	2"	34 lbs	HT968464	133.40	87.42
8"	8"	2"	54 lbs	HT968465	206.31	135.20

F.O.B. Warren, MI

1550

Starrett[®] Little Giant Jack Screw Set

S190 Model

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



Order No.	Regular Price	SALE
MV7050680	90.97	76.52

5071

IRWIN QUICKGRIP[®] One Handed Bar Clamps/Spreaders

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



Maximum Opening	Throat Depth	Reach	Order No.	Regular Price	SALE
6"	3 1/4"	7 1/2"-20 5/8"	KX5000546	17.89	14.76
6"	3 1/4"	7 1/2"-14 5/8"	KX50506QC	31.02	25.58
12"	3 1/4"	7 1/2"-26 5/8"	KX50512QC	36.03	29.72
18"	3 1/4"	7 1/2"-32 5/8"	KX50518QC	40.37	33.29
24"	3 1/4"	7 1/2"-44 5/8"	KX50524QC	44.22	36.47
36"	3 1/4"	7 1/2"-58 5/8"	KX50536QC	52.41	43.21

† Mini Bar Clamp

23449

MIL-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	39.71	36.62
31050	0.860"	0.230"	0.280"	#8-32	950 lbs	SG7031050	39.71	34.86
31100	0.980"	0.230"	0.480"	1/4"-20	1,900 lbs	SG7031100	39.71	36.62
31150	0.980"	0.230"	0.530"	5/16"-18	2,500 lbs	SG7031150	42.28	39.00
31200	1.130"	0.250"	0.710"	3/8"-16	4,500 lbs	SG7031200	54.95	50.68
31250	1.250"	0.250"	0.900"	1/2"-13	5,900 lbs	SG7031250	67.77	62.51
31300	1.560"	0.310"	1.150"	5/8"-11	10,000 lbs	SG7031300	86.88	80.13
31350	1.560"	0.310"	1.150"	5/8"-11	10,000 lbs	SG7031350	95.33	87.92
31400	1.790"	0.310"	1.150"	5/8"-11	10,000 lbs	SG7031400	151.56	139.79
31450	1.790"	0.310"	1.150"	5/8"-11	10,000 lbs	SG7031450	185.97	171.52

22364

WILSON High Visibility Safety Clamps

- Drop forged
- Powder coat, scratch and rust resistant
- V-Groove anvil holds rounds securely
- Perma-Pad[®], exclusive field replaceable design
- Lifetime warranty



Order No.	Regular Price	SALE
HZ41404SF	54.63	50.34
HZ41406SF	83.37	76.94
HZ41408SF	104.07	95.94
HZ41410SF	143.13	132.04
HZ41412SF	231.75	213.74

25547

TECO Machinist Clamp Kit with 1" Thick Step Blocks

52 Piece Kit Contains:

- 4 Coupling Nuts
- 6 Flange Nuts
- 6 T-Slot Nuts
- 1 T-Slot Cleaner
- 24 Studs - 4 each: 3, 4, 5, 6, 7 and 8" long
- 6 Step Blocks
- 6 Serrated End Clamps
- 1 Holder

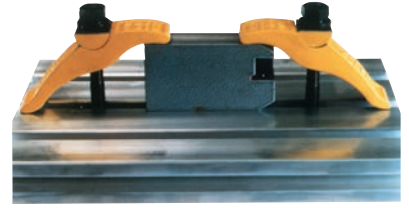


Stud Size	Order No.	Regular Price	SALE
1/2"-13	SG5020402	326.51	239.24

25218

Rite Hite Self Positioning Hold Down Clamps

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



Thread Size	Length	Width	Thickness	Maximum Height	Clamp Force	Holding Capacity	Weight	Order No.	Regular Price	SALE
1"	11 1/8"	2 7/8"	3 5/16"	5"	-	65,000 lbs	12.00 lbs	SG751000L	124.09	108.43
1"	9"	2 7/8"	3 5/16"	3"	-	8,000 lbs	10.00 lbs	SG751001S	122.91	107.40
3/8"	3 1/2"	1 1/8"	1 3/32"	1 1/4"	-	10,000 lbs	0.50 lbs	SG75375L	28.88	25.23
3/8"	3"	1 1/8"	1 3/32"	1"	-	14,000 lbs	0.50 lbs	SG75376S	28.00	24.47
1/2"	5 3/4"	1 7/16"	1 13 32"	2 1/2"	-	12,800 lbs	1.40 lbs	SG75500L	33.33	29.12
1/2"	4 1/4"	1 3/8"	1 13 32"	1 3/4"	-	16,800 lbs	1.00 lbs	SG75501S	32.41	28.32
5/8"	6 3/4"	1 7/8"	1 1/2"	3 1/2"	-	18,000 lbs	2.50 lbs	SG75625L	44.17	38.60
5/8"	5 1/2"	1 7/8"	1 1/2"	2 3/4"	-	24,000 lbs	2.00 lbs	SG75626S	43.16	37.71
3/4"	9"	2 1/8"	2 3/8"	5"	-	24,000 lbs	4.75 lbs	SG75750L	68.32	59.70
3/4"	7"	2.00"	2 3/8"	3 1/2"	-	35,000 lbs	4.00 lbs	SG75751S	67.23	58.74

22786

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	14.78	12.25
1/2"	#10-24	1/2"	10 lbs	Two-Pole	NE7010405	16.10	13.35
3/4"	#10-24	1/2"	20 lbs	Two-Pole	NE7010410	21.92	18.16
1"	1/4"-20	1/2"	30 lbs	Two-Pole	NE7010415	30.64	25.38
1 1/4"	5/16"-18	1/2"	40 lbs	Two-Pole	NE7010425	42.57	35.28

23795

DAREX V390 Drill Sharpener

Affordable, convenient & easy to use - ideal for facilities where people of various skill levels need to be able to sharpen drills. **Specifications:**

- Motor: 15 Volt, 4.5 Amps, 1/4 HP, 60hz, 3450 RPM
- Shipping weight: 25 lbs.

Features:

- Sharpens most drill bits in less than 60 seconds
- Sharpens 1/8" - 3/4" drill bits; HSS, cobalt, TiN coated, split point
- Attaches to your vacuum system
- Choose point angle from 118° - 140°
- Grinding wheel sharpens drills 2,000 times before replacement
- 3 Year Warranty



Order No.	Regular Price	SALE
PM70V390	1698.00	1566.12

F.O.B. Ashland, OR • Not CSA Approved

23049

PRM PRO LED Industrial Work Light

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



Order No.	Regular Price	SALE
KE75JWL5514L	218.57	155.36

2945

ACER 6" x 18" Ball Way Manual Surface Grinder

Standard Equipment:

- Auto Lubrication
- Halogen Work Light
- Diamond Dresser
- Tool Box, and Complete Instruction & Parts Manual
- Electro Magnetic Chuck & Control Included

Machine Specs:

- Table Size: 6" x 18"
- Spindle Speed (RPM): 3450
- Maximum Grinder Wheel Size: 8" x 1/2" x 1-1/4"
- Spindle Motor: 2HP, 3PH, 220/460V
- Crossfeed: .0005, Downfeed: .0001
- Cross Transverse Travel: 6-1/8"
- Longitudinal Table Travel: 19"
- Maximum Grinding Width: 6-5/8"
- Maximum Grinding Length: 19"
- Rigid Cast Iron Base
- Weight: 1870 lbs
- 1 Year Warranty



Model No	Order No.	Regular Price	SALE
S618II	RA60S618II	9836.50	9072.50
S618II440	RA60S618II440	9836.50	9072.50

F.O.B. Orange, CA • Ships by truck

5640

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	1421.40	1311.00
6"	18"	2"	MP015290	1686.11	1555.15
8"	18"	2"	MP015310	2467.88	2276.20
7.87"	24"	2"	MP015330	2875.76	2652.40
11.81"	24"	2.20"	MP015360	4318.79	3983.35

Other sizes available - call for price and delivery

30151

TECUMS ER Collet Sets

- In Wooden Tray



Shank Type	Quantity	Diameter Range	Order No.	Regular Price	SALE
ER8	9	1 mm - 5 mm	GM70701198	313.12	228.00
ER11	7	1/32" - 1/4"	GM70701199	213.21	155.25
ER11	13	1 mm - 7 mm	GM70701200	391.40	285.00
ER16	10	1/32" - 3/8"	GM70701699	304.88	222.00
ER16	10	1 mm - 10 mm	GM70701700	291.49	212.25
ER20	12	1/16" - 1/2"	GM70702199	380.07	276.75
ER20	12	2 mm - 13 mm	GM70702200	398.61	290.25
ER25	15	5/32" - 5/8"	GM70702599	536.63	390.75
ER25	15	2 mm - 16 mm	GM70702600	508.82	370.50
ER32	18	7/32" - 3/4"	GM70703999	603.58	439.50
ER32	18	3 mm - 20 mm	GM70704000	603.58	439.50
ER40	13	1/8" - 1"	GM70704999	484.10	352.50
ER40	23	4 mm - 26 mm	GM70705000	854.90	622.50
ER50	17	6 mm - 34 mm	GM70706000	1208.19	879.75

25243

NEWALL DP700 3 Axis Milling Digital Readout Packages

The DP700 is the latest in Newall's line of a powerful and intuitive DROs. The unit is housed in a rugged, ergonomically designed casting. The DRO features all of the essential functions for milling, boring, turning, grinding, and general machining operations. DP700 Milling Packages Include: DP700 DRO Display, Encoder Assemblies, Spherosyn, Reader Heads, Spherosyn Scales, Scale Mounting Brackets, Mounting Bracket Kit, Display Mounting Arm

DP700 Features:

- 5 Year Warranty, 3 Year No-Fault Warranty
- IP67 rating (NEMA Type 6) Fully submersible Spherosyn scales, Withstands dust, dirt, oil and other harsh environmental conditions
- Feed Rate Display
- Bolt Hole Circle Routine
- Line Hole Routine
- Arc Contouring
- Programmable Memory/Teach
- Polar Coordinates
- Line Hole Calculator
- Tool Offsets
- Taper Calculations
- RS232 Output
- Part numbers with Q 3rd Axis scale on Quill, Part numbers with K 3rd Axis scale on the Knee



Knee					
X-Axis Stage Travel	Y-Axis Stage Travel	Z-Axis Stage Travel	Order No.	Regular Price	SALE
12"	24"	16"	MS33DP70031K16	2767.61	2418.30
12"	30"	16"	MS33DP70032K16	2767.61	2418.30
12"	36"	16"	MS33DP70033K16	2767.61	2418.30
16"	30"	16"	MS33DP70034K16	2767.61	2418.30
16"	36"	16"	MS33DP70035K16	2767.61	2418.30
16"	40"	16"	MS33DP70036K16	2767.61	2418.30
12"	38"	16"	MS33DP70027K16	2767.61	2418.30

Quill					
X-Axis Stage Travel	Y-Axis Stage Travel	Z-Axis Stage Travel	Order No.	Regular Price	SALE
12"	24"	6"	MS33DP70031Q06	2767.61	2418.30
12"	30"	6"	MS33DP70032Q06	2767.61	2418.30
12"	36"	6"	MS33DP70033Q06	2767.61	2418.30
16"	30"	6"	MS33DP70034Q06	2767.61	2418.30
16"	36"	6"	MS33DP70035Q06	2767.61	2418.30
12"	38"	6"	MS33DP70027Q06	2767.61	2418.30
16"	40"	6"	MS33DP70036Q06	2767.61	2418.30

24051

PROCHECK 1/8" Steel Parallel Set

10 Pair Set

- 1/8 x 1/2 to 1/8 x 1-5/8"
- Made of high grade alloy steel, hardened and ground from 1/8" stock
- Two holes in each parallel
- Accuracy: ±.0002" parallelism in height
- ±.001" to size in height



Order No.	Regular Price	SALE
NM55TPS11	85.67	56.13

4357

FR BALACLAVA GRAY

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



Type	Color	Fits Hat Size	Material	Order No.	Price	SALE
Balaclava	Grey	One Size	FR SOFT FABRIC	SG0290000	28.17	19.00

30862

PRM PRO Cloth Wipers

- Recycled wiper cloths
- Made from cloth and flannel products
- White & color fabric



Description	25			50		
	Order No.	Regular Price	SALE	Order No.	Regular Price	SALE
Pure White T-Shirt Wipers New lint free absorbent material	LM581010025	133.54	86.80	LM581010050	267.09	173.61
Colored t-shirt wipers soft, absorbent, for polishing and wiping	LM582020225	51.37	32.05	LM582020250	98.61	61.43
Flannel wipers soft, absorbent shirt/pajama material 100% cotton	LM582020425	64.38	41.85	LM582020450	138.28	89.88
Colored sweat shirt wipers soft, absorbent, for polishing and wiping	LM582020625	46.57	30.27	LM582020650	90.42	58.77
Cotton terrycloth wipers absorbent reclaimed remnants assorted color/sizes	LM582020825	73.96	48.07	LM582020850	147.93	96.15
White reclaimed t-shirt wipers authentic non-synthetic material	LM582030525	67.13	43.63	LM582030550	134.26	87.27

2933

Prices Effective January 1st through March 31st, 2022

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