



KNIGHT
SAFETY & INDUSTRIAL

WELDING

2024 Catalog



ABRASIVES



Abrasives | Coated



NEW

3M Cubitron II Flap Disc 967A

- Precision-Shaped Grain and poly-cotton backing is well-suited for medium-duty applications including weld, scale, and oxide removal, light deburring, surface preparation, and blending
- Features an incorporated grinding aid to help it run cool and cut efficiently on heat-sensitive metals

Item# Size
Type 27 Flap Disc 967A:

293028 4 1/2" x 7/8"

293032 7" x 7/8"

Please specify grit: 40, 60, or 80.

- Built with 3M™ Precision-Shaped Grain for an exceptionally fast cut, helping to increase productivity
- Poly-cotton backing delivers controlled, even wear in medium unit pressure applications
- Individual flaps break down, exposing fresh mineral to deliver consistent cut rate for the life of the disc
- Easy to use, with less gouging than fiber discs and bonded wheels
- Offers a great balance of fast cut and long life

Item# Size

Type 27 Quick Change Disc 967A:

293033 4 1/2" x 5/8"-11"

293035 7" x 5/8"-11"

Ideal for Weld Removal and Surface Preparation



3M Flap Disc 546D, Type 27

- Alumina zirconia self-sharpening, provides extended life and more cutting power than aluminum oxide, reducing replacement costs
- Flexible, X-weight cotton backing supports fast cut on light duty grinding and finishing applications
- Resin bond prevents heat from weakening the abrasive and its adherence to the backing

Item#	Size	Weight
173030	4 1/2" x 7/8"	40
173037	4 1/2" x 7/8"	60
173034	4 1/2" x 7/8"	80

Item#	Size	Weight
173038	7" x 7/8"	40
173036	7" x 7/8"	60
173035	7" x 7/8"	80



DeWALT Heavy-Duty Flap Discs

- Removes material quickly and leaves a high quality finish
- Tough zirconia grit removes material 3 times faster and lasts 15 times longer than fiber resin discs

- Type 29 fiberglass backing provides optimum grinding angle of 10-25°, allows full use of disc, and won't mar your work piece

Item#	Size	Type	Max RPM
22464	4 1/2" x 7/8"	260 Grit Type 29	13,300
22465	4 1/2" x 7/8"	280 Grit Type 29	13,300
22466	4 1/2" x 5/8"-11"	260 Grit Type 29	13,300
22467	4 1/2" x 5/8"-11"	280 Grit Type 29	13,300
32256	4 1/2" x 7/8"	240 Grit Type 27	13,300
32257	4 1/2" x 7/8"	260 Grit Type 27	13,300

Item#	Size	Type	Max RPM
32259	4 1/2" x 7/8"	280 Grit Type 27	13,300
32260	4 1/2" x 7/8"	2120 Grit Type 27	13,300
22468	7" x 5/8"-11"	226 Type 29	8,700
22469	7" x 5/8"-11"	260 Type 29	8,700
22470	7" x 5/8"-11"	280 Type 29	8,700



NORTON

Blaze™ R980P Type 27 Flap Disc

NEW

- Latest generation ceramic alumina abrasive provides the best and fastest cutting, and lasts longer
- High strength, lightweight fiberglass back absorbs vibration
- Lasts 50%-200% longer than any flap disc on Inconel, titanium, and other hard-to-grind materials

Item#	Size	Max RPM
293034	4 1/2" x 5/8"-11"	13,300
293038	4 1/2" x 7/8"	13,300
293039	5" x 7/8"	12,000

Please specify grit: 40, 60, 80, or 120.

Item#	Size	Max RPM
293036	7" x 5/8"-11"	8,600
293040	7" x 7/8"	8,600



PEARL Silver Line™ Flap Discs

NEW Additions

- Medium flexibility Type 27 discs
- Great for ferrous metals, iron, steel, and stainless steel

Item#	Size	Grit
88477	4 1/2" x 5/8"-11"	280
88476	4 1/2" x 5/8"-11"	260
220620 New+	7" x 5/8"-11"	260
220648 New+	4 1/2" x 7/8"	280



CGW Trimmable Coated Flap Disc with Grinding Aid

- Z4 zirconia for severe applications where sharp edges are a challenge
- Concentrated grinding aid and high performance zirconia alumina grain with a polyester backing
- For use with right angle grinders

NEW

Item#	Size	Grit	Max RPM
257740	4 1/2" x 5/8"-11"	36	13,300

Please specify grit: 36, 40, 60, or 80. 10 per box. Visit northernsafety.com for additional sizes.

3M Cubitron II Fibre Discs 982C

- 3M Precision Shaped Grain maintains super-sharp points, cuts exceptionally fast with less pressure
- Disc life is significantly longer, completing more parts per disc and requiring fewer disc changes
- Triangular shaped ceramic grain lasts up to two times longer than other ceramic abrasives—it wears evenly, runs cool, and optimizes mineral breakdown

- Stiff fiber backing and strong resin bond provide durability and tear resistance for heavyweight applications such as high-pressure weld grinding and beveling
- Item#s 173938 and 173940 have TN attachment for quick disc changes

Item#	Size	Grade	Max RPM
173935	4 1/2" x 7/8"	36+	13,300
173937	7" x 7/8"	36+	8,600

Item#	Size	Grade	Max RPM
173938	7"	36+	8,600
173940	4 1/2"	36+	13,300

25 per pack, 100 per case.



3M Fibre Disc 501C

- Alumina zirconia breaks down to produce a consistently sharp edge that cuts faster than aluminum oxide and is suitable for stock removal on all metals, including stainless steel
- Stiff fiber backing provides the durability needed for weld removal and other medium pressure applications such as deburring or rust removal

- Durable resin bond resists deterioration from heat, increasing disc life and provides excellent mineral retention for edge grinding
- Closed coat provides added life and cut 7/8" center hole mount is compatible with 3M disc pad face plates and hubs, and requires the use of a disc retainer nut (all sold separately)

Item#	Size	Grade
173013	4 1/2" x 7/8"	24
173010	5" x 7/8"	24

Item#	Size	Grade
173011	5" x 7/8"	36
173012	7" x 7/8"	24

100 per case.



NORTON 2" Neon® Type III Quick Change Discs

- Premium aluminum oxide/ceramic alumina blend and durable backing deliver aggressive cut and longer life on moderately demanding applications
- Vending packs are ideal for vending machines, small jobs, or carrying to a job site

- New resin system improves base adhesion and reduces grain shedding
- Tool-free, twist-on and-off fastening system makes fast work of disc changes to maximize productivity and minimize downtime
- Good choice for difficult-to-grind materials that require an economical option

Item#	Size
238804	2"

Please specify grit: 24, 36, 40, 50, 60, 80, 100, 120, 150, 180, or 240. See more sizes and configurations at northernsafety.com. 100 per box.



NORTON A275 NO-FIL® Stick and Sand Paper Discs

- Premium P-graded, heat-treated aluminum oxide abrasive delivers superior life, fast cut rate, and consistent finish
- Features unique fiber-reinforced, flexible B-weight latex-saturated backing, offering 50%-60% greater tear strength
- Provides maximum load resistance and extended life
- 6" diameter

NEW

Consistent Finish



Item#	Size
295781	6"

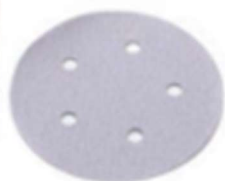
Please specify grit: 80, 100, 120, 150, 180, 220, 240, 280, 320, or 400. Visit northernsafety.com for additional sizes. 100 per roll.

MIRKA Q. Silver® 5" Abrasive Sanding Discs

- Special self-sacrificing stearate coating reduces clogging and loading
- Enhanced abrasive surface features a more consistent scratch pattern
- Semi-open coat design provides fast finishing
- Great for automotive refinishing, wood and composite processing, paint stripping and removal, plastics, stainless steel, and more

Item#	Size
238804	5"

Please specify grit: 80, 100, 120, 150, 180, 220, 320, 400, or 500. Visit northernsafety.com for additional sizes. 50 per pack.



MIRKA Bulldog Gold 9" x 11" Proflex Sheets

- Goldflex is a light, flexible latex paper suited for both dry and wet sanding
- Special stearate coating prevents clogging and pill forming
- Great for profiled surfaces

NEW

Quality from Start to Finish

Item#	Size
295807	9" x 11"

Please specify grit: 80, 100, 120, 150, 180, 220, 240, 320, 400, 500, 600, or 800. 50 per pack.



Abrasives | Bonded

3M Cubitron™ Cut-Off Wheels, Type 1

- Triangular shaped ceramic grain wears evenly, runs cool, and optimizes mineral breakdown for extra long life, offering significant productivity gains
- Rigid, reinforced resin-bonded wheel slices through almost all materials, including stainless steel, mild steel, and aerospace alloys

- Wheel must have a maximum operating speed greater than or equal to the maximum speed of the power tool used
- **MUST BE USED WITH ANSI-APPROVED FLANGES FOR TYPE 1 CUT-OFF WHEELS AND A WHEEL GUARD THAT FITS THE SIZE OF THE CUT-OFF WHEEL.**



Item#	Size	Item#	Size	Item#	Size
187104	3" x .035" x 1/4"	173919	4" x .035" x 3/8"	294403	5" x .090" x 7/8"
195103	3" x .035" x 3/8"	294401	4" x .125" x 3/8"	195099	6" x .045" x 7/8"
294394	3" x .060" x 3/8"	294402	4 1/2" x .040" x 7/8"	295505	7" x .045" x 7/8"
173917	4" x .060" x 3/8"	195100	4 1/2" x .045" x 7/8"		

3M Cubitron™ II Type 27 Cut-Off Wheels

- Triangular shaped ceramic grain wears evenly, runs cool, and optimizes mineral breakdown, for extra long life and significant productivity gains
- Rigid, reinforced resin-bonded wheel slices through almost all materials including stainless steel, mild steel, and aerospace alloys

- Wheel must have a maximum operating speed greater than or equal to the maximum speed of the power tool used
- **MUST BE USED WITH ANSI-APPROVED FLANGES FOR TYPE 1 CUT-OFF WHEELS AND A WHEEL GUARD THAT FITS THE SIZE OF THE CUT-OFF WHEEL.**



Item#	Size	Item#	Size
195105	4 1/2" x .045" x 5/8"-11	195096	6" x 1/4" x 7/8"
195101	4 1/2" x .045" x 7/8"	195091	9" x 1/4" x 5/8"-11
195104	5" x .045" x 7/8"	195092	9" x 1/4" x 7/8"
195102	6" x .045" x 7/8"		

NEW

3M Silver T1 Cut-Off Wheels

- Designed to quickly cut through metal pipes, tubes, flat sheets, and more
- Exceptional durability extends the life of the wheel for great performance value
- 3M™ Precision-Shaped Grain cuts exceptionally fast, helping to increase productivity
- May be used on a variety of substrates, including carbon steel and stainless steel

Delivers an Unbeatable Combination of Performance and Value



Item#	Size	Item#	Size	Item#	Size
293625	3" x .035" x 1/4"	293635	4" x .035" x 3/8"	293653	4 1/2" x .045" x 7/8"
293627	3" x .035" x 3/8"	293637	4" x .060" x 3/8"	293660	5" x .045" x 7/8"
293628	3" x .060" x 3/8"	293642	4" x .125" x 3/8"	289518	6" x .045" x 7/8"
293632	4" x .035" x 1/4"	293649	4 1/2" x .040" x 7/8"	293662	7" x .045" x 7/8"

3M Silver T27 Cut-Off Wheels

- Exceptional durability extends the life of the wheel for great performance value
- Designed to quickly cut through metal pipes, tubes, flat sheets, and more
- 3M™ Precision-Shaped Grain cuts exceptionally fast, helping to increase productivity
- May be used on a variety of substrates, including carbon steel and stainless steel

NEW



Item#	Size
293375	4 1/2" x .045" x 7/8"
293377	4 1/2" x .093" x 7/8"
293379	5" x .045" x 7/8"
293380	6" x .045" x 7/8"



metabo Original Slicer™ Type 1 Cutting Wheels

- Aluminum oxide wheel is ideal for ferrous metal, stainless steel, bar stock, plate, and more
- Offers an extremely fast rate of cut
- Type 1

Item#	Size	Max RPM
190453	4" x .040" x 3/8"	22,000
211270	4 1/2" x .040" x 7/8"	15,000
211274	4 1/2" x .045" x 7/8"	15,000
211271	5" x .040" x 7/8"	12,225
211275	5" x .045" x 7/8"	12,225
211273	6" x .040" x 7/8"	10,200
211276	6" x .045" x 7/8"	10,200

Black Lightning High Speed Type 27 Cut-Off Wheels

- Heat-treated aluminum oxide grain is great for cutting all metals, including non-ferrous and stainless steel
- Extra thin design assures smooth, fast cutting
- Double external reinforced with high tensile strength fiberglass to minimize vibrations and burrs



Item#	Size	Item#	Size	Item#	Size
259349	4 1/2" x .045" x 5/8"-11	259353	4 1/2" x 3/32" x 5/8"-11	259356	5" x .045" x 5/8"-11
259350	4 1/2" x .045" x 7/8"	259354	5" x .045" x 7/8"	259357	7" x .045" x 7/8"
259352	4 1/2" x 3/32" x 7/8"	259355	6" x .045" x 7/8"	259358	6" x .045" x 5/8"-11
				259360	7" x .045" x 5/8"-11

Great Choice for Steel and Ferrous Metals

Item#	Size	Max RPM	Item#	Size	Max RPM
177189	3" x .035" x 1/4"	25,465	177096	4" x .035" x 3/8"	19,100
177190	3" x .035" x 3/8"	25,465	177098	4" x .060" x 1/4"	19,100
177191	3" x .060" x 1/4"	25,465	177119	4" x .060" x 3/8"	19,100
177093	3" x .060" x 3/8"	25,465			
177094	4" x .035" x 1/4"	19,100			25 per case.



Type 01 Gemini Reinforced Cut-Off Wheels

- Versatile aluminum oxide delivers a consistent performance
- Requires less pressure, assuring greater operator comfort
- Ideal for on-site and small jobs



Item#	Size	Type	RPM
179024	4" x .045" x 5/8"	27/42	15,280
179028	4 1/2" x .045" x 5/8"-11	27/42	13,580
179029	4 1/2" x .045" x 7/8"	27/42	13,580
179032	4 1/2" x .090" x 5/8"-11	27/42	13,580
179034	4 1/2" x .090" x 7/8"	27/42	13,580
179038	4 1/2" x .125" x 5/8"-11	27/42	13,580
179040	4 1/2" x .125" x 7/8"	27/42	13,580
179041	5" x .045" x 7/8"	27/42	12,225
179209	6" x .045" x 5/8"-11	27/42	10,185

10 per case.



Type 27/42 Gemini RightCut™ Cut-Off Wheels

- 100% aluminum oxide abrasive has been infused with a bond technology and processing for a thinner wheel design and low kerf loss
- Provides a clean, burr-free, quality cut, ensures a precise, straight cut, and increases productivity
- Requires less pressure for increased operator comfort



Clean, Quality Cuts

Vibration-Free Cutting & Grinding

Item#	Size	Grit
250634	4 1/2" x .045" x 7/8"	A60T
250641	5" x .045" x 7/8"	A60T
250647	6" x .045" x 7/8"	A60T



Type 1 Cut-Off Wheels

- Superior manufacturing process ensures consistent performance from wheel to wheel
- Tested for balance, resulting in smooth, vibration-free grinding and cutting



Item#	Size	Type	RPM
Type 1:			
32219	4" x .045" x 5/8"	Metal, Thin, Cut-Off, Flat	15,200
32220	4 1/2" x .045" x 7/8"	Metal, Thin, Cut-Off, Flat	13,300
32224	4 1/2" x .045" x 7/8"	Concrete/Masonry, Thin Flat	13,300
32225	4 1/2" x .045" x 7/8"	Metal/Stainless Steel, Thin Flat	13,300
32226	5" x .045" x 7/8"	Metal, Thin Cut, Flat	12,200
32227	6" x .045" x 7/8"	Metal, Thin Cut, Flat	10,100
32228	6" x .045" x 7/8"	Metal/Stainless Steel, Thin Cut, Flat	10,100
Type 27:			
32221	4" x .045" x 5/8"	Metal, Thin, Depressed Center	15,200
32222	4 1/2" x .045" x 7/8"	Metal, Thin, Depressed Center	13,300
32223	4 1/2" x .045" x 7/8"	Metal, Thin, Depressed Center w/Hub	13,300

Fast, Burr-Free Cuts Every Time



Abrasive Cut-Off Wheels

- Exclusive aluminum oxide grain combination offers aggressive cutting action
- Composed of two full sheets of fiberglass to ensure durability
- Thin .045" wheel design provides fast, burr-free cutting



Premium Grain Wheels for Metal Cutting

Item#	Size	Type	Max RPM
22477	12" x 7/64" x 1"	General Purpose	5,000
22478	14" x 7/64" x 1"	General Purpose	4,300
22479	14" x 7/64" x 1"	Heavy Metal Bar Cutter	4,300
22480	14" x 7/64" x 1"	Light Metal Stud Cutter	4,300



Heavy-Duty Chop Saw Wheels

- Ideal for metal cutting applications
- Double reinforced with two full sheets of fiberglass for safety and performance
- Premium grain ensures added wheel life and speed
- A24R grit



Item#	Size	Type	Tool	RPM
32229	7" x 1/8" x 5/8"	Metal Abrasive	Circular Saw	8,700
32230	7" x 1/8" x 5/8"	Concrete/Masonry	Circular Saw	8,700
32231	12" x 1/8" x 20mm	Metal	Portable Gas/Electric Saw	6,400
32232	12" x 1/8" x 1"	Metal	Portable Gas/Electric Saw	5,500
32233	14" x 1/8" x 20mm	Metal	Portable Gas/Electric Saw	5,500
32234	14" x 1/8" x 1"	Metal	Portable Gas/Electric Saw	5,500
32235	14" x 1/8" x 20mm	Concrete/Masonry	Portable Gas/Electric Saw	5,500
32236	14" x 1/8" x 1"	Concrete/Masonry	Portable Gas/Electric Saw	5,500

Rugged, High Performance Grain



Portable Saw Blades

- 2 sheets of built-in, thicker fiberglass withstand extreme applications and high speeds
- Rugged, high performance grain assures excellent material removal



Abrasives | Bonded

NEW

Designed for Heavy Grinding, Beveling, and Weld Removal

3M Silver T27 Depressed Center Grinding Wheels

- Heavy-duty wheel designed for use in aggressive grinding applications like beveling, slag removal, weld grinding, and edge work on a variety of metals
- Features 3M™ Precision-Shaped Grain which continually fractures into super-sharp points and edges that slice cleanly through metal, rather than gouging or plowing
- Lasts significantly longer than conventional ceramic grain abrasives while maintaining a high cut-rate over the life of the wheel
- Designed for heavy grinding, beveling, and weld removal
- May be used on a variety of substrates such as carbon steel and stainless steel
- Exceptional durability extends the life of the wheel for great performance value



Item#	Size	Max RPM
Silver T27:		
293574	4" x 1/4" x 7/8"	15,300
293575	4" x 1/4" x 5/8"	15,300
293577	4 1/2" x 1/4" x 7/8"	13,300
293584	5" x 1/4" x 7/8"	12,250
293590	6" x 1/4" x 7/8"	10,200
293595	7" x 1/4" x 7/8"	8,500
293604	9" x 1/4" x 7/8"	6,650
Silver T27 Quick Change:		
288971	4 1/2" x 1/4" x 5/8"-11	13,300
293616	5" x 1/4" x 5/8"-11	12,250
293618	6" x 1/4" x 5/8"-11	10,200
293619	7" x 1/4" x 5/8"-11	8,500
293620	9" x 1/4" x 5/8"-11	6,650

3M Cubitron™ II Depressed Center Grinding Wheel, Type 27

- Triangular shaped ceramic grain wears evenly, runs cool, and optimizes mineral breakdown, for extra long life, offering significant productivity gains
- Rigid, reinforced resin-bonded wheel slices through almost all materials including stainless steel, mild steel, and aerospace alloys
- Wheel must have a maximum operating speed greater than or equal to the maximum speed of the power tool used
- **MUST BE USED WITH ANSI-APPROVED FLANGES FOR TYPE I CUT-OFF WHEELS AND A WHEEL GUARD THAT FITS THE SIZE OF THE CUT-OFF WHEEL.**



Cut-Off Wheels with Precision-Shaped Grain are Engineered to Cut Faster

Item#	Size	Grade	Max RPM	Item#	Size	Grade	Max RPM
173920	4 1/2" x 1/4" x 7/8"	36+	13,300	173925	7" x 1/4" x 5/8" - 11	36+	8,500
173921	5" x 1/4" x 7/8"	36+	12,250	173928	4 1/2" x 1/4" x 5/8" - 11	36+	13,300
173923	7" x 1/4" x 7/8"	36+	8,500				

Grinding Wheels

- Heat-treated aluminum oxide grain cuts all metals including stainless steel and non-ferrous metals
- Grinding wheels are internally reinforced with high tensile strength fiberglass
- Balanced to avoid vibration
- Pipe cutting and grinding wheels allow operator to cut and lightly grind without changing wheel
- Ideal for blending



Great For Cutting All Metals

Item#	Size	Max RPM	Item#	Size	Max RPM
Grinding Wheels:			Pipe Cutting and Grinding:		
259364	4 1/2" x 1/4" x 7/8"	13,300	259375	4 1/2" x 1/8" x 7/8"	13,300
259367	4 1/2" x 1/4" x 5/8"-11	13,300	259377	4 1/2" x 1/8" x 5/8"-11	13,300
259366	5" x 1/4" x 7/8"	12,200	259376	5" x 1/8" x 7/8"	12,200
259368	5" x 1/4" x 5/8"-11	12,200	259378	5" x 1/8" x 5/8"-11	12,200
259371	7" x 1/4" x 7/8"	8,500	259380	7" x 1/8" x 7/8"	8,500
259372	7" x 1/4" x 5/8"-11	8,500	259382	7" x 1/8" x 5/8"-11	8,500

Excellent for Fast, General Purpose Grinding



SAIT Grinding Wheels

- Aluminum oxide grain has a soft bond for fast stock removal
- Great for angle grinder use on metal and stainless

Item#	Size	Type	Max RPM
211722	4 1/2" x 1/4" x 7/8"	27	13,300
263450	6" x 1/4" x 7/8"	27	10,200

25 per box.

Cooler Grinding And Blending



SAIT Challenger Grinding Wheels

- Aluminum oxide grain with open pattern on wheel offers cooler grinding and blending
- Contaminant-free – safe for use in the nuclear industry
- For use on aluminum, concrete, metal, and stainless steel

Item#	Size	Type	Grit	Max RPM
197806	4 1/2" x 1/8" x 7/8"	29	36	13,280
197807	7" x 1/8" x 7/8"	29	36	8,600

DEWALT Heavy-Duty Depressed Center Grinding Wheels



- Great for general purpose metal cutting and grinding
- Triple reinforced with industrial grain for increased life and durability
- Type 27 A24R grit

Item#	Size	Type	Max RPM	Item#	Size	Type	Max RPM
22471	4" x 1/4" x 5/8"	Metal	15,200	32261	4 1/2" x 1/8" x 7/8"	Metal	13,300
22472	4 1/2" x 1/4" x 7/8"	Metal	13,300	32262	4 1/2" x 1/4" x 7/8"	Concrete/Masonry	13,300
22473	4 1/2" x 1/4" x 5/8"-11	Hubbed Metal	13,300	32263	5" x 1/4" x 5/8"-11	Hubbed Metal	12,200
22474	7" x 1/4" x 7/8"	Metal	8,700	32264	6" x 1/4" x 7/8"	Metal	10,100
22475	7" x 1/4" x 5/8"-11	Hubbed Metal	8,700				

Maximize Production,
Minimize Cost

NEW

Item#	Size	RPM
Type 27:		
182137	4" x 1/4" x 3/8"	15,280
293384	4" x 1/4" x 5/8"	15,280
293385	4 1/2" x 1/4" x 7/8"	13,580
293396	5" x 1/4" x 7/8"	12,225
293398	6" x 1/4" x 7/8"	10,185
293401	7" x 1/4" x 7/8"	8,600
293411	9" x 1/4" x 7/8"	6,600

Item#	Size	RPM
Type 27 Quick Change:		
188785	4 1/2" x 1/4" x 5/8"-11	13,580
293421	5" x 1/4" x 5/8"-11	12,225
293429	6" x 1/4" x 5/8"-11	10,185
293436	7" x 1/4" x 5/8"-11	8,600
293465	9" x 1/4" x 5/8"-11	6,600

NORTON
SABICORUM

Quantum3™ T27 Grinding Discs

- Provides an exceptional finish on 400-series stainless or carbon steel materials
- Ceramic alumina abrasive grain and bond system offer double the performance of competitive ceramic wheels, and a 500% increase in performance over aluminum oxide
- User-friendly design means simple cutting action without grabbing, digging, or catching, and delivers a high-quality finish



NORTON
SABICORUM

Type 27 Gemini Grinding Wheels

- Aluminum oxide is good for steel and ferrous metals, and specialty applications in aluminum and foundries
- Provides excellent blend of cut rate and service life

Item#	Size	Max RPM	Item#	Size	Max RPM
177064	4" x 1/4" x 3/8"	15,280	177067	5" x 1/4" x 5/8"-11	12,225
177065	4" x 1/4" x 5/8"	15,280	177079	5" x 1/4" x 7/8"	12,225
177066	4 1/2" x 1/4" x 5/8"-11	13,580	177042	7" x 1/4" x 5/8"-11	8,600
175129	4 1/2" x 1/4" x 7/8"	13,580	177039	7" x 1/4" x 7/8"	8,600



NORTON
SABICORUM

Type 27 BLUEfire® Plus Depressed Center Grinding Wheels

- Blend of advanced chemistry and shaped zirconia alumina abrasive and premium aluminum oxide grain deliver 2-3 times the life of aluminum oxide wheels
- Broad utility from light- to heavy-pressure applications on a wide range of materials
- Excellent performance-to-price ratio provides lower total grinding costs

Provides Longer
Lasting Use

Item#	Size	RPM	Item#	Size	RPM
179263	4 1/2" x 1/4" x 5/8"-11	13,580	179272	6" x 1/4" x 7/8"	10,185
179266	4 1/2" x 1/4" x 7/8"	13,580	179274	7" x 1/4" x 5/8"-11	8,600
179268	5" x 1/4" x 5/8"-11	12,225	179275	7" x 1/4" x 7/8"	8,600
179269	5" x 1/4" x 7/8"	12,225			
179270	6" x 1/4" x 5/8"-11	10,185			20 per case.



NORTON
SABICORUM

NorZon Plus All-Purpose Depressed Center Grinding Wheels

- Patented ceramic alumina/zirconia alumina abrasive blend with advanced bond system withstands the most aggressive foundry applications
- Type 27

Item#	Size	Grit	RPM	Item#	Size	Grit	RPM
179224	4 1/2" x 1/4" x 5/8"-11	24	13,580	179229	7" x 1/4" x 5/8"-11	24	8,600
179226	4 1/2" x 1/4" x 7/8"	24	13,580	179230	9" x 1/4" x 5/8"-11	20	6,600
179227	5" x 1/4" x 5/8"-11	20	12,225				

Item#s 179224, 179227, 179229, and 179230—10 per case. Item# 179226—25 per case.



PEARL
ACCEPT NO SUBSTITUTIONS

Silver Line™ Depressed Center Grinding Wheels

- Aluminum oxide wheels are great for grinding, weld dressing, and deburring
- Engineered for aggressive stock removal and extra-long life

- Fully reinforced for ferrous metals, iron, and steel
- Meets or exceeds US/Canada safety standards and specifications

Item#	Size	Type	Max RPM
88324	4 1/2" x 1/4" x 5/8"-11	27	13,700
88325	4 1/2" x 1/8" x 5/8"-11	27	13,300
88327	7" x 1/8" x 5/8"-11	27	8,500

Great For Grinding, Weld
Dressing, & Deburring



PEARL
ACCEPT NO SUBSTITUTIONS

Redline™ Depressed Center Grinding Wheels

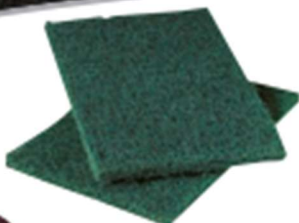
- Innovative MAX A.O.™ super grain is highly efficient
- Non-loading, aluminum oxide grinding wheels provide cooler grinding and less vibration
- Ideal for iron, steel, and stainless steel

Item#	Size	Type	Max RPM
88431	4 1/2" x 1/4" x 5/8"-11	27	13,700
88433	4 1/2" x 1/8" x 5/8"-11	27	13,300

33% More Efficient than
Standard Aluminum Oxide



Abrasives | Non-Woven



Pad Holder

3M Scotch-Brite™

Hand Pads

6" x 9" Pads Never Rust!

- Durable pads are a great alternative to steel wool and wire brushes
- Ideal for hand finishing, cleaning, scuffing, and other surface prep
- Can be used with water or solvents for various applications

Item#	Grade	Color	Mfg. Model#
165956	Coarse/Cleaning	Tan	7440
165957	Coarse/Finishing	Gray	7446
30285	Scouring	Green	86
11905	Medium	Maroon	7447
11906	Fine	Light Gray	7448
30281	Light Duty	White	98

Item#	Description
11907	Pad Holder



3M Scotch-Brite™ Surface Conditioning Discs

- Open web material runs cool and resists loading for prolonged operation
- Conformable disc conditions surfaces without gouging, undercutting, or damaging the base material

- Suitable for metal, composite, plastics, and other materials
- Hook and loop attachment system provides fast disc change-out for multi-step finishing processes

Item#	Diameter
173067	7"

25 per pack

Item#	Diameter
173070	5"

50 per pack



3M Scotch-Brite™ 2" Roloc™ Quick Change Discs Type TR

Strong Unitized Construction Provides Effective Edge Deburring and Finishing

- Hard densities offer good edge retention, which helps maintain consistent shape and cutting action
- Soft densities offer conformability and flexibility for finishing flat, contoured, or irregular surfaces without damaging the part

- Compressed, open-web construction and uniform grain distribution provide consistent cutting action
- 3M™ Roloc™ attachment system offers quick and easy disc change-out for multi-step finishing processes

Item#	Description	Grade
195132	2" x NH 2S	Fine
195136	2" x NH 2A	Medium

Item#	Description	Grade
195158	2" x NH 6A	Medium

15 per pack



T29 Non-Woven Flap Discs

- Premium conical surface preparation and conditioning discs
- Operate at 3000 RPM for optimal performance

Item#	Size	Tool	Max RPM	Mfg. Model#
257947	4 1/4" x 5/8"-11	Right Angle Grinder	13,300	70121
257946	4 1/4" x 7/8"	Right Angle Grinder	13,300	70120
257948	5" x 7/8"	Right Angle Grinder	12,200	70185
257949	5" x 5/8"-11	Right Angle Grinder	12,200	70186



Interleaf Non-Woven Flap Wheels

- Alternating flaps of non-woven and coated abrasive materials deliver fast, uniform surface preparation and finishes
- Spindle mount for quick and easy changes

Item#	Size	Tool
258143	2" x 1" x 1/4"	Die Grinder

Item#	Size	Tool
258144	3" x 1" x 1/4"	Die Grinder

Abrasives | Non-Woven

NORTON
submicron

Rapid Prep™ Non-Woven Surface Preparation Discs

- Aluminum oxide, quick-change discs deliver consistent cutting and finishing
- More resistant to edge wear, providing up to 4 times the life of competitive products
- Smear-free, won't load on aluminum and soft metals



Item#	Grade	Qty/Case	Item#	Grade	Qty/Case	Item#	Grade	Qty/Case	Item#	Grade	Qty/Case
2" Type III:			2" Type II:			3" Type III:			3" Type II:		
176741	Coarse	25	176750	Coarse	50	176756	Coarse	25	176760	Coarse	25
176743	Medium	25	176752	Medium	50	176757	Medium	25	176761	Medium	25
176744	Fine	50	176753	Fine	50	176758	Fine	25	177891	Fine	25
176746	Very Fine	25	176754	Very Fine	50	176759	Very Fine	25	176762	Very Fine	25

NORTON
submicron

Non-Woven Flap Wheels

- Interleaf wheels feature non-woven flaps alternating with coated aluminum oxide abrasive flaps
- Ideal for stock removal and finishing
- Equipped with 1/4" mounted steel shank

Great for a Wide Variety of Blending and Finishing Applications



Item#	Size (D x W x SK.)	Non-Woven Grade	Max RPM	Item#	Size (D x W x SK.)	Non-Woven Grade	Max RPM
176727	2" x 1" x 1/4"	Coarse	12,000	176735	3" x 1" x 1/4"	Medium	12,000
176728	2" x 1" x 1/4"	Medium	12,000	176737	3" x 1" x 1/4"	Very Fine	12,000
176730	2" x 1" x 1/4"	Very Fine	12,000	<i>10 per case.</i>			
176731	3" x 1" x 1/4"	Coarse	12,000				

NORTON
submicron

Rapid Prep™ Vortex Non-Woven Discs

- Proprietary, engineered Vortex® aluminum oxide abrasive grain, with new coating method and smear-free Clean Bond® technology
- Provides optimum, consistent cutting and finishing of surfaces
- Combines maximum cutting speed with the finish of finer grits

- Reduces process times by 50% by eliminating 2 to 5 grit sequences to 1 step in your technical blending operations
- More resistant to edge wear
- Friable grain structure keeps Ra specs throughout disc life and reduces scrap and rework



Item#	Size	Item#	Size
258546	4 1/2" x 7/8"	258494	4 1/2" x 5/8"-11

Please specify grade: Extra Coarse (ECS), Coarse (CS), Medium (MD), Fine (FN), or Very Fine (VF).

Weiler

Non-Woven Type R Hub Surface Conditioning Discs

- Aluminum oxide abrasive has open construction, scrim reinforcement, and superior resin system
- Minimizes loading, heat build-up, fraying of disc edges, and grain shedding
- Delivers extended disc life and superior performance
- Plastic button-style discs are compatible with 3M Roloc™ back-up pads



Item#	Description	Item#	Description
281041	2" Dia. Disc	281043	3" Dia. Stem-Mounted Backing Pad, 1/4" Arbor
281042	3" Dia. Disc	281044	2" Dia. Stem-Mounted Backing Pad, 1/4" Arbor

Please specify grade: Medium (MD), Coarse (CS), or Very Fine (VF).

Great for Surface Preparation and Cleaning Rust

175423



175424



Knot Wheels

- Delivers heavy-duty brushing action with some flexibility
- Ideal for demanding cleaning applications on slightly irregular surfaces

Item#	Description	Arbor Hole	Fill Dia., Material	Max RPM
175423	3" Standard Twist	1/2" - 3/8"	.014", Steel	25,000
175424	4" Standard Twist	1/2" - 3/8"	.014", Steel	20,000
175968	4" Standard Twist	5/8"-11 UNC	.014", Steel	20,000

175528



175529



Knotted Wire End Brushes

- Features hollow end and provides heavy-duty brushing action
- Perfect for more heavy-duty cleaning applications in recessed areas

Item#	Diameter	Arbor Hole	Fill Dia., Material	Trim Length	Max RPM
175528	3/4"	1/4" Stem	.020", Steel	7/8"	22,000
175529	3/4"	1/4" Stem	.020", Stainless	7/8"	22,000
153730	1 1/8"	1/4" Stem	.020", Steel	7/8"	22,000
153731	1 1/8"	1/4" Stem	.020", Stainless	7/8"	22,000



175962



175966



175963

Heavy-Duty Brushing Action with Some Flexibility



Knotted Cup Brushes

- Great for demanding cleaning applications on relatively flat surfaces
- Ideal for removing slag, paint, rust, and corrosion
- Can be used for weld prep and cleaning

Item#	Description	Arbor Hole	Fill Dia., Material	Max RPM
175966	2 3/4" Single Row	5/8"-11 UNC	.020", Steel	14,000
175963	3 1/2" Single Row	5/8"-11 UNC	.023", Steel	13,000
175962	4" Single Row	5/8"-11 UNC	.023", Steel	10,200



Stringer Bead Knot Wire Wheels

- The standard for high performance weld cleaning
- Great for cleaning root and hot passes, and reaching into corners

Item#	Description	Arbor Hole	Fill Dia., Material	Max RPM
175971	4" Mini Roughneck	5/8"-11 UNC	.020", Steel	20,000
175974	4" Mini Roughneck	5/8"-11 UNC	.020", Stainless Steel	20,000



Copper Fitting Brushes

- Perfect for internal cleaning and deburring copper tube fittings
- Ideal for use as light socket cleaning brush, and cleaning gun barrels, internal pipes and flues, tube ends, valve guides, and more
- 1" brush length, 6 1/2" total length

Item#	Fill Dia., Material	Stem Material	Pipe Size	Item#	Fill Dia., Material	Stem Material	Pipe Size
175531	1/2", Steel	Steel	3/8"	175534	7/8", Steel	Steel	3/4"
175532	5/8", Steel	Steel	1/2"	175535	1 1/8", Steel	Steel	1"
175533	3/4", Steel	Steel	5/8"				

Handy Brushes Clean a Variety of Pipes and Tubes



Arbor Crimped Wire Wheel Brush

- Provides flexible brushing action and consistent performance
- Removes light corrosion, paint, and rust

*Ideal for Light Duty
Cleaning and Deburring*

Item#	Description	Arbor Hole	Fill Dia., Material	Max RPM
175420	6" Narrow Face	5/8" - 1/2"	.014", Steel	6,000
175422	6" Medium Face	2"	.014", Steel	6,000



Crimped Wire End Brushes

- Rugged, solid end construction
- Ideal for more demanding light-duty cleaning applications in corners and hard-to-reach areas

Flexible Brushing Action

Item#	Diameter	Arbor Hole	Fill Dia., Trim Material	Length	Max RPM
175425	1/2"	1/4" Stem	.006", Steel	7/8"	25,000
175426	1/2"	1/4" Stem	.0104", Steel	7/8"	25,000
175432	3/4"	1/4" Stem	.006", Steel	7/8"	22,000
175434	3/4"	1/4" Stem	.0104", Steel	7/8"	22,000
175439	3/4"	1/4" Stem	.0104", Stainless	7/8"	22,000
175436	1"	1/4" Stem	.006", Steel	1"	22,000
175437	1"	1/4" Stem	.0104", Steel	1"	22,000
175440	1"	1/4" Stem	.006", Stainless	1"	22,000
175441	1"	1/4" Stem	.0104", Stainless	1"	22,000



Stem-Mounted Crimped Wire Cup Brushes

Ideal for Light Duty Cleaning and Deburring

- Small diameter cup brushes provide flexible brushing action and consistent performance on large, flat surface areas
- Ideal for use with high speed die grinders and drills

Item#	Description	Arbor Hole	Fill Dia., Material	Max RPM
175738	1 3/4" Narrow Face	1/4"	.0118, Steel	13,000
175959	2 3/4" Medium Face	1/4"	.0118, Steel	6,000

10 per case.



Crimped End Cup Brushes

- Provides the most consistent performance for demanding light duty cleaning applications
- Designed for use on right angle grinders
- Ideal for general purpose applications, including light deburring, removal of heavy and light corrosion, paint, coatings, rust, scale, and plastic edge slag

Item#	Diameter	Arbor Hole	Fill Dia., Material	Max RPM
175905	3"	5/8"-11 UNC	.014", Steel	14,000
175907	4"	5/8"-11 UNC	.014", Steel	10,200
283101	5"	5/8"-11 UNC	0.02" Steel	9,000



Small Scratch Brushes

- Clean dirt, rust, scale, chips, and paint with ease
- Ideal for removing rust or corrosion, and cleaning and prepping surfaces for plating and welding operations
- Small handles are great for cleaning smaller areas
- 1/2" face width

Item#	Description	Fill Dia., Material	Block Material	Block Size
177896	3 x 7 Rows	0.006", Stainless Steel	Wood	7 1/2"
175547	3 x 7 Rows	0.006", Stainless Steel	Plastic	7 1/2"
175548	3 x 7 Rows	0.006", Stainless Steel	Wood	7 1/2"
177898	3 x 7 Rows	0.012", Black Nylon	Wood	7 1/2"



Grinders | Power



Slide Switch



Trigger Grip



Paddle Switch

High Power Motor
Delivers Quality

DEWALT 4 1/2" Angle Grinders

- Powerful motor assures faster material removal and higher overload protection
- Equipped with Quick-Change™ Wheel Release and low profile, one-piece jam-pot gear case
- Item# 6376: One-Touch™ Guard allows a simple turn to adjust the guard position
- Item#s 6378 and 6380: feature twin fan Dust Ejection System™, auto-off brushes, and dual abrasion protection to keep tool running smoothly
- One-piece brush arm prevents brush hang-up from dust ingestion
- Includes keyless adjustable guard and vibration-reducing side handle
- Item# 6380: features Complete Electronic Control™, providing multiple advanced technology features including Power-Loss Reset™, Power-Off™, and E-Clutch™

Item#	Description	HP	AMP	RPM	Mfg. Model#
6376	4 1/2" Small Angle Grinder w/Slide Switch	1.1	7.0	12,000	DWE4011
6378	4 1/2"-5" High Performance Grinder w/Trigger Grip	2.3	13.0	9,000	D28115
6380	4 1/2"-5" High Performance Grinder w/Paddle Switch	2.3	13.0	11,000	D28114



23373



23374

DEWALT

Heavy-Duty 4 1/2" Angle Grinders

Item#	Description	AMP	RPM	Mfg. Model#
23373	Paddle Switch	11.0	11,000	DWE402
23374	Slide Switch	11.0	11,000	DWE4214

DEWALT

Built tough for
long work days

7"/9" Large Angle Grinder

Item#	HP	AMP	RPM	Mfg. Model#
32289	5.3	15.0	6,000	D28499X



DEWALT

7" Large Angle Grinder

Item#	AMP	HP	RPM	Mfg. Model#
16755	15.0	4.0	8,500	DWE4517



Milwaukee

100% tool-free

M18™ FUEL™ 4 1/2" Grinder Kit

- POWERSTATE™ brushless motor delivers powerful performance
- REDLINK PLUS™ Intelligence design increases tool and battery life
- Ideal for tough grinding, surface preparation, and cutting applications
- Item# 172647 includes: grinder, M18™ REDLITHIUM™ XC 4.0 extended capacity battery pack, M18™ & M12™ multi-voltage charger, flange nut, wheel guard, spanner wrench, and carry case



172647

Item#	Description	RPM	Mfg. Model#
172647	Kit	8,500	2780-21
173131	Tool Only	8,500	2780-20

Milwaukee

7.5 AMP 4 1/2" Small Angle Grinder

Item#	RPM	Watts	Spindle	Mfg. Model#
172730	10,000	825 MWO	5/8"-11	6140-30



Milwaukee

15 AMP 7"/9" Large Angle Grinder

Item#	RPM	HP	Spindle	Mfg. Model#
172711	6,000	4.2	5/8"-11	6088-31



Makita

18V LXT® Li-Ion Cordless 4 1/2" Cut-Off/Angle Grinder Kit

Item#	RPM	Mfg. Model#
190054	10,000	XAG01



Makita

NEW

4 1/2" Corded Lock-On Angle Grinders

Item#	Description	RPM	AMP	Arbor	Mfg. Model#
252694	Tool	11,000	6.0	M10 x 1.25	6A4030
252693	Tool w/Case	11,000	6.0	M10 x 1.25	6A4030K



Grinders | Pneumatic

Chicago Pneumatic Die Grinders

- Offers great power-to-weight ratio
- Includes built-in regulator and 1/4" and 6mm collets
- Item# 184741: lightweight design for easier maneuverability
- Item#s 184743 and 184746: features rugged aluminum body for harsh work environments

- Item# 184744: equipped with front exhaust
- Item#s 184741 and 184745: angle die grinders are great for limited space tasks
- Ideal for general maintenance applications

A Great Value for Maintenance Applications

Item#	HP	RPM	Mfg. Model#
184741	.3	22,500	CP875
184743	.4	22,000	CP872
184744	.3	30,000	CP876

Item#	HP	RPM	Mfg. Model#
184745	.32	23,000	CP9106Q-B
184746	.54	24,000	CP860



Chicago Pneumatic Heavy-Duty Angle Grinders

- High performance motor delivers fast, efficient grinding in tight quarters
- Aluminum alloy housing is rugged yet lightweight
- Spiral bevel gearing in angle head provides extended life and smooth, low vibration use
- Ideal for weld preparation and smoothing, rust removal, deburring and blending of steel, and cast iron and aluminum applications

Item#	Description	HP	RPM	Mfg. Model#
184695	4"	.7	13,000	CP854
184696	5"	.6	12,000	CP854E



Chicago Pneumatic Cut Off Tool

- High speed cutter offers safe, precise control
- Features rear exhaust, adjustable speed regulator, and lock-off lever to prevent accidental start-up
- Ideal for cutting through composite, sheet metal, bolts, and more

Item#	HP	RPM	Wheel Diameter	Mfg. Model#
176661	.5	22,000	2 7/8"	CP874



Ingersoll Rand Air Angle Grinders

- Offers high performance power for rust and material removal
- Lightweight design and enhanced grip ensure comfortable handling
- Internal governor maximizes speed under load, increasing your productivity
- Built-in lubricating wick optimizes the life of the angle gear set by improving lubrication to the bevel and pinion gear set
- 1/4" NPTF air inlet
- 1/2" x 11 spindle size

Item#	Description	HP	RPM	Avg. Air Requirement	Mfg. Model#
10967	4 1/2"	.88	12,000	9.0 CFM	3445MAX
32298	5"	.88	12,000	10.0 CFM	345MAX



Ingersoll Rand Air Die Grinders and Angle Die Grinders

Hard Working Grinders Polish, De-Burr, Break Sharp Edges, and More!

- Economical, long-life tools provide excellent speed control and feature 1/4" collets and convenient self-locking throttle lever
- Tools have durable ball bearing construction and consume an average of 3.0 CFM
- Item# 10964: equipped with positive grip collet chuck and (2)-collet wrenches
- Item# 16640: includes kit box and abrasive mounted points

Item#	Description	HP	RPM	Mfg. Model#
10964	Die Grinder	.33	25,000	IR308
16640	Die Grinder Kit	.25	22,000	301-K
10966	Angle Die Grinder, Heavy-Duty	.33	20,000	IR302B



Ingersoll Rand Needle Scaler

- Quickly cleans and removes paint, rust, dirt, weld slag, and more
- 19 heat-treated needles and barrel ensure long-lasting durability
- Lever throttle provides comfortable control
- 18.3" length
- 1/4" NPTF air inlet

Item#	Description	Stroke	BPM	Avg. Air Requirement	Mfg. Model#
10970	Needle Scaler	1 1/8"	4,600	8.0 CFM	IR125
22098	Replacement Needles (19/pk)				PF2219-22-19

Needles adapt to curved and uneven surfaces



Dependable Solution for Surface Preparation

Welding | Helmets

Supreme Comfort and Crystal Clear Visibility

Sentinel A50 Welding Helmet

- High impact-resistant nylon shell delivers excellent protection
- Ergonomic, infinitely-adjustable, 5-point Halo™ headgear provides extreme comfort and balance
- Low-profile design with central pivot point allows for maximum head clearance while helmet is in the up position

- Features automatic on/off, color touch screen control panel with 8 separate memory settings, and externally activated shade 4 Grind button
- Welding shade range: DIN 5-8/9-13
- Filter viewing area: 100 x 60 mm
- Complies with ANSI and CSA standards

Item#	Description
284128	Welding Helmet
294074	Hard Hat Adapter

Item#	Description
294077*	Magnifying Lens 2.5

*Please specify magnification: 1.0 (100), 1.5 (150), 2.0 (200), or 2.5 (250).

NEW



WHAM 30 Auto Darkening Welding Helmets

- Pivot-style headgear with fully adjustable nylon suspension offers a great fit
- High impact-resistant nylon provides excellent protection
- 4 independent arc sensors in a staggered design deliver reliable arc detection
- Powered by solar cells and replaceable lithium-battery

- High speed lens – 1/30,000 second
- Welding shade range: 9-13
- Includes magnification lens holder
- **Item# 212352**—Filter viewing area: 100 x 45 mm
- **Item# 279265**—Filter viewing area: 98 x 87 mm
- Complies with ANSI and CSA standards

Item#	Description
212352	Glossy Black

Item#	Description
279265*	Graphic Design

*Please specify design: American Eagle (ANEE), Fire Metal (FEML), or Flame (FL).

JACKSON Welding Helmets

- **Item# 17611**: lightweight thermoplastic helmet with contour comfort headgear provides great coverage
- **Item#s 30914 and 30915**: solar powered to eliminate battery changes
- Features 2 independent sensors and an economical lens for the consumer welder

- **Item# 30695**: 370 headgear features 3-position slider, adjusting distance of lens from your eyes for precise vision
- Three independent sensors make it ideal for tight spaces
- Complies with ANSI and CSA standards

Item#	Description	Filter Dimensions	Filter
17611	Vertical Mount W10	4 1/2" x 5 1/4"	Shade 10
30914	Element W30	42 x 96mm	Shade 10
30915	Element W40	42 x 96mm	Variable Shade 9-13
30695	Nitro W40	90 x 110mm	Variable Shade 9-13

sellstrom Welding Helmets

- Rugged helmets deliver excellent head and neck protection
- Designed for use with cartridge respirator
- Easy auto-darkening filter and cover plate removal and installation
- Light State: 4
- Dark State: 9-13
- Comfortable push and twist ratcheting head gear adjustment allows custom fit

- **Item# 290899** is solar operated and features 2 independent arc sensors
- Automatic power control
- Includes adjustable 3-position sensitivity control L/M/H and adjustable 3-position delay control S/M/F
- Filter Dimensions: 4.33" x 3.54"
- View Size 3.54" x 1.57"
- External shade control
- **Item#s 290900 and 290901** feature state of the art Blue Lens Technology for true color vision, 4 arc sensors for amazing clarity, enhanced definition, reduced eye fatigue, and full digital operation: shade, sensitivity, delay, and weld/grind control
- Filter Dimensions: 4.50" x 5.2"
- View Size 3.94" x 3.28"
- Internal shade control
- All models meet ANSI Z87.1 and CAN/CSA Z94.3 standards



Item#	Description
290899	Advantage Series ADF Helmet
290900	Advantage Plus True Color ADF Helmet
290901	Premium Series True Color ADF Helmet

3M

Speedglas™ Quick Release Welding Helmet System

- Quickly connect and disconnect welding helmet to your hard hat
- Allows welding helmet to nest over hard hat when raised
- Features auto-darkening filter 100V with 1.7" x 3.7" viewing area
- Provides three sensitivity levels, for reliable arc detection of most welding process, grinding mode, variable dark shades 8-12 and shade 3 light state

- Delay function sets dark-to-light opening time
- Head suspension with smooth ratchet offers precise tightening
- Includes welding helmet, quick release rail, and hard hat with ratchet suspension
- Complies with ANSI and CSA standards

Auto Darkening
Item# 100436

IMPORTANT: The 3M products in this catalog must be used in accordance with OSHA regulations, and the user instructions, warnings, and limitations accompany each product.



NSI Premium Blue Welder's Gloves

- Leather gloves provide outstanding heat and abrasion resistance
- Features gunn pattern with one-piece back, and fully welted seams
- **Premium** side split leather gloves have soft cotton sock lining and reinforced thumb strap
- **Premium plus** chrome tanned, side leather gloves are sewn with Kevlar® with reinforced thumb and palm for extra durability
- Flame-resistant, jersey sock lining ensures comfortable, all-day wear
- Ideal for welding and any application requiring heat, flame, or spark protection

Item# Grade

3920 Premium
3810 Premium Plus

For left or right hand only gloves, please specify (LHO) or (RHO). 12 pair per package, 72 pair per case.



NSI MIG TIG Pro Welder's Gloves

Comfortable Gloves Offer Superior Dexterity and Performance

- Premium grain cowhide leather palm gloves are sewn with Kevlar® thread for optimum strength, heat resistance, and durability
- Provides unsurpassed dexterity, comfort, and performance
- Features comfortable gunn cut pattern and durable 4 1/2" split leather gauntlet cuffs
- Ideal for MIG/TIG and heli-arc welding, or other jobs requiring dexterity

Item#

3800

Please specify size: (M), (L), or (XL). 12 pair per package, 72 pair per case.

**The Dexterity You
Need for MIG/TIG and
Heli-Arc Welding**



TILLMAN Heavy-Duty Pearl Grain Welding Gloves

- Top grain leather gloves with 4" cuff deliver abrasion protection
- Wing thumb and seamless forefinger ensure comfortable wear
- Lock stitching with Kevlar® thread provides strength and long-lasting use

Item#

190628

Please specify size: (XS), (S), (M), (L), or (XL).

**Maximum
Versatility**



TILLMAN Onyx Super Premium Top Grain Leather MIG Welding Gloves

- Top grain cowhide provides long-lasting durability
- Split cowhide palm reinforcements reduce wear
- Glove back features elastic for a better fit
- Fleece-lined for added protection in hot or cold conditions, without a bulky fit
- 4" cuff offers protection for the lower forearm
- Seamless forefinger assures comfort
- Sewn with Kevlar® thread to protect seams

Item#

172360

Please specify size: (M), (L), or (XL).

**Fleece Lined For
Added Protection**



ESAB Curved Finger MIG Welding Gloves

- Constructed of heavy and fine cut cowhide leathers
- Hand and cuff are fully lined for wear in harsh temperature conditions
- Curved finger design reduces hand fatigue
- Flexible wrist area helps minimize friction
- Welted seams, Kevlar® stitching, and reinforced thumb and palm offer a high level of protection

Item#

284130

Please specify size: (L) or (XL).

**Flexible Wrist Helps
Reduce Friction**



Welding | Respirators



Superior Protection
for Welders

3M 8515 N95 Particulate Welding Respirator

- 3M™ Cool-Flow™ exhalation valve opens easily during exhalation
- M-noseclip adjusts easily, with fewer pressure points, for a comfortable, secure seal
- Includes soft, braided headbands
- Provides 95% efficiency against non-oil particulates
- Ideal for welding, soldering, cutting, grinding, and sanding
- NIOSH approved

Item#

23569

10 per box, 8 boxes per case.



Exhalation Valve Ensures
Easier Breathing

MOLDEX N99 Particulate & Welding Fume Respirators

- Reliable 99% filter efficiency protects against most welding fumes in non-oil areas
- Dura-Mesh® shell resists collapsing in hot, humid environments
- Contoured facepiece and molded nose bridge with soft foam flange provide comfortable wear
- Easily fits under welding hoods
- **Item# 9859** features adjustable straps for a custom fit
- Environmentally friendly, PVC-free
- NIOSH approved



Item# **Description**

9849 2310 N99 w/Standard Straps

9859 2315 N99 w/Adjustable Straps

10 per bag, 6 bags per case.

Lighter than conventional respirators



Elipse P100 Half Mask Welding Respirator

- Provides P100 protection against dust particles, metal fumes, mists, and vapors
- Latex- and silicone-free TPE facepiece is comfortable to wear
- Low-profile filters offer an unobstructed field of vision
- High performance filter material resists moisture and allows users to breathe easier
- Compatible with PPE, including visors and welding helmets
- Intuitive design assures easy mask maintenance
- NIOSH approved

Item# **Description**

185330* Respirator

185331 P100 Filters (pack of 2)

250343 P100 Nuisance Odor Filters (pack of 2)

218302 Hard Carry Case

*Please specify size: Small/Medium (SM) or Medium/Large (ML).



Pureweld ESM Welding PAPR

Head, Face, Eye, and Respiratory Protection All in One

- Electronic Systems Management (ESM) monitors battery life, airflow, and filter usage
- Audible warning and head-mounted LED display lights alert worker to recharge battery or replace filter
- Self-contained design without belt pack, battery pack, or trailing leads to get in the way, allowing the user to move freely, even in tight spaces
- Inner face shield allows for grinding and cleaning with welding helmet up

**Assigned protection factor of 1,000—
No fit test required**

- NiMH batteries offer 5-6 hours of operation and recharge in only 2 1/2 hours
- Includes: welding shield with shade 10 lens, high efficiency filter, charger, and batteries
- Faceshield and helmet comply with ANSI standards
- NIOSH approved

Item# **Description**

27714 Complete System

27718 HE Filter (box of 8)



Welder's Jacket

Designed for Comfort... Built to Last!

Combination cotton/leather jacket provides superior protection and flexibility.

- 30" jacket body is made of 9 oz., flame retardant cotton, assuring excellent protection and comfortable wear
- Tanned, split leather sleeves are sewn with Kevlar® for lasting durability
- Features inside pocket for convenient storage of small items

Item#

27992

Please specify size: (L), (XL), or (2XL).



Flame Resistant Cotton Welding Jacket

- Lightweight and breathable, cotton stretch knit back panel offers just the right amount of horizontal "give" for shoulder and arm movements
- Looped yarns allow more air to flow through the fabric, providing cooling breathability and comfort
- 9 oz. FR cotton front, sleeves, and collar; 7 oz. FR cotton back
- Features stand-up welder's collar and leather reinforcements on all front snaps
- (6)-powder-coated stainless steel front snaps and wrist snaps keep fit secure
- Scribe pocket holds welding pencils, soapstone, and paint markers
- Inside pocket holds small items
- Tested to maintain protection for light welding applications through 50 home washings
- 32" length

Item#

288305

Please specify size: (M), (L), (XL), (2XL), (3XL), or (4XL).



Black Knee-Length Shop Coat

Quality Construction Built In

- Comfortable, knee-length shop coat is styled to fit the way you work, with (2)-lower front pockets plus breast pocket
- Features simple snap-front closure and side slits for easy access to trouser pockets

Item#

284132

Please specify size: (L) or (XL).



Flame Resistant Apparel

- Cotton construction assures flame-resistant protection and comfortable, all-day wear
- Coveralls feature snap closures on front and wrists, (4)-side slit pockets, and inside left breast pocket
- Bib apron measures 24" x 36", with adjustable length web neck and waist strap, and snap and slide buckle fasteners for added convenience

Item# Description

- | | |
|-------|----------------------------------|
| 4843* | Coveralls, 9 oz. Sateen |
| 3646 | Bib Apron, 11 oz. Whipcord |
| 30694 | Replacement Bib, 11 oz. Whipcord |

*Please specify size: (S), (M), (L), (XL), (2XL), or (3XL).

Comfortable protection against heat and sparks



Premium Leather Welding Aprons and Sleeves

Reliable apparel provides general welding protection. Split cowhide leather with Kevlar® double stitching provides heat resistance and longer wear.

- Waist aprons have an adjustable waist strap with quick release buckle
- Bib aprons feature heavy-duty straps and quick-release buckle
- 18" sleeves have adjustable wrist snaps and shoulder straps for a snug, comfortable fit

Item# Description

- | | |
|------|-----------------------|
| 3101 | 24" x 24" Waist Apron |
| 3102 | 24" x 36" Bib Apron |

Item# Description

- | | |
|------|---------------------|
| 3103 | 24" x 42" Bib Apron |
| 3104 | 18" Sleeves (pr.) |



Weldlite Pro-Series® Jacket

For Light Exposure to Sparks and Spatter

- Modern styling appeals to workers and provides an economical solution for light exposure to sparks and spatter
- Durable, 9 oz., 100% cotton is treated to be flame-resistant*
- 30" long jacket features stand-up mandarin collar and relaxed, full cut with elongated front
- Black color hides dirt for longer use

Item#

30971

Please specify size: (M), (L), (XL), or (2XL). *Maintains flame-resistant properties for up to 25 commercial washings or 50 home washings.



Welding | Accessories



Tempil® Tempilstik® Temperature Indicating Sticks



- When stick melts, precise temperature is reached
- Accurate to within +/- 1% of Fahrenheit and +/- 3% Celsius rated temperatures; no need for sensor calibration
- Ideal for pre-heating, post-weld heat treating, interpass temperature monitoring, and annealing
- Meets welding codes; AWS D1., ANSI/ASME Code B32.1 & B31.3, ASME Code Sec. I, II, & VII, NIST Traceable

Item#	Description
171309	250°
171310	300°
171311	350°
171312	400°

Item#	Description
171313	450°
173823	500°
180658	550°

10 per case.

Shop northernsafety.com for other available temperature ratings.



Markal PRO Holder and Welding Refills



- Heavy-duty metal construction features built-in sharpener for precise marks
- Extended, needle-nose tip is great for tight and hard-to-reach areas
- Easily refillable for continued use
- **Silver Streak®**: unique reflective lead is ideal for welding and fabricating
- **Red-Riter®**: red lead is perfect for welding and fabricating on aluminum, stainless steel, and other light metals

Item#	Description
-------	-------------

258698	PRO Holder
258699	Silver Streak® PRO Welding Refills (pack of 6)
258700	Red-Riter® PRO Welding Refills (pack of 6)



Nozzle Dip

Non-Flammable and Odorless

- Protects MIG gun nozzles, tips, positioners, and fixtures
- Safe, non-toxic, odorless formula comes in an unbreakable container for added safety and convenience
- Contains no silicone or hydrocarbon solvents

Item#	Size
26252	16 oz.



Weld-Kleen® 350® Anti-Spatter

- Protects parts, tooling, and fixtures
- Safe, effective water-based formula is designed for use on most base metal applications
- Great for work in robot torch blow down systems
- Biodegradable, non-toxic, and paintable

Item#	Description
-------	-------------

257716	Liquid, 1 qt.
188309	Liquid, 1 gal.
257693	Sprayer for 1 gal.



Flat Soapstone Holder

NEW

Includes 4 Soapstone Refills

- Soapstone is great for marking metals and materials
- Kit includes holder and (4) soapstone markers

Item#	Mfg. Model#
294625	770087

Protect-O-Screen® Portable Welding Screens

- **Screens:** equipped with sturdy square tube frame and slip fit design
- 100% cotton **olive duck** is flame-, water-, and mildew-resistant, and offers protection against light sparks and splatter
- **Transparent vinyl** blocks most UV radiation, yet allows visibility of work area
- **Rolls:** rolls allow you to cut off only what you need for the job and have grommets every 12"



Item#	Description	Item#	Description
12 oz. Olive Duck:			
17640	6' x 6' Screen	17642*	6' x 6' Screen
17641	6' x 8' Screen	17643*	6' x 8' Screen
Transparent Vinyl:			
Item# Description			
17639*	60' x 25 yd. Roll		

*Please specify color: Gray (GY), Orange (OE), or Yellow (YW).

Item#	Description
17644	Frame Connectors for Screens



Use Alone or Joined Together

Port-O-Screen™

- Portable, flame-retardant screen protects from hazards of UV flash, spatter, or sparks for remote job sites or maintenance
- Quick, easy setup and take down - just roll open and stand on horizontal end - when done, roll up, and carry away

- Flexible steel wire mesh inner core permits screen to stand alone
- No hardware or tools necessary to install
- Built-in tie strap and carrying handle
- Water- and mildew-resistant

NEW



Freestanding, Portable Protection

Item#	Description
291954	12 oz. Olive Duck Canvas
292137	13 oz. Yellow Vinyl Laminated

Welding Blankets/Curtains

- **Toughguard™:** constructed of 18 oz. heat-cleaned, woven fiberglass for economical, high temp protection
- **Goldenglass:** features 28 oz. fiberglass material coated with durable acrylic coating on both sides to shed sparks and slag
- Both can be hung from brass grommets as a curtain or shield and resist temperatures up to 1000°F

- **Velvet Shield® Carbon Fiber Blankets:** soft, lightweight, and non-scratching, horizontal protection without brass grommets
- Flexible blankets protect against direct contact with weld splatter
- Resists intermittent temperatures up to 3000°F, continuous to 1800°F
- Meets all standards of NFPA 701



Easy to Drape or Hang

Item#	Dimensions	Item#	Dimensions	Item#	Dimensions
Toughguard™:					
17631	4' x 6'	Goldenglass:		Velvet Shield®:	
17633	6' x 6'	17635	4' x 6'	23772	4' x 6'
17634	6' x 8'	17637	6' x 6'	23773	6' x 8'
		17638	6' x 8'	23774	8' x 10'
				26227	10' x 10'



Good: Toughguard



Better: Goldenglass



Best: Velvet Shield

WEARWELL® Weld Safe

- Designed for use in welding areas
- 3/16" thick mats feature a tough black rubber outer layer with durable sponge base to reduce leg and back stress and body fatigue

- Pebbled surface ensures extra traction
- Edges are beveled for increased safety

Item#	Size (W x L)
5761	2' x 3'
5762	3' x 5'

These products do not qualify for free shipping.

Repels Sparks and Hot Metal Shards



Welder's Kneeling Pad

- Durable, flame-resistant split leather resists sparks and spatter
- Dense foam won't compress, offering long-lasting relief to knees, elbows, forearms, and feet
- Sewn with Kevlar® thread for added protection against heat and sparks
- Measures 12" x 24" x 1"

Item#
258701



weldcote
metals

MIG Welding Pliers

- Removes spatter from inside, outside, and edge of nozzle
- Also great for contact tip removal and installation, use as a wire drawing tool, hammering, and wire cutting



Item#
255234

weldcote
metals

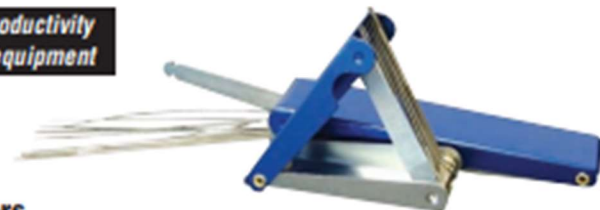
Chipping Hammers

- Versatile welding hammer has cone hammer on one end, chisel on the other



Item#	Description
255232	Chisel and Cone
255233	Cross Chisel and Cone

Maintain productivity
with clean equipment



Tip Cleaners

- Convenient pocket-sized cleaner is ideal for keeping all cutting tips and contact tips free of debris
- Multiple diameter round files for any orifice and a flat file for burrs or edges
- Constructed of stainless steel with tapered ends for easier cleaning
- Rust-proof
- Includes case with file
- For sizes #6-#25

Item#	Description
255236	Standard
255237	King Extra Length

10 per box.

weldcote
metals

Greenlite Spark Lighter

- Provides easy and accurate ignition insured by multi-spark discharge
- Zinc-plated body resists rust and corrosion
- Tested to 300,000 strikes

Item#
255221



weldcote
metals

Ground Clamps

- Ground/work clamp for welding

Item#	Max AMP
255219	300
255220	500



DYNAFLUX
WIRE FEED PADS

Mig Wire Lube Pads

Reduces Erratic Feed and Burn Back

- For use on MIG wire feeders to remove dust and dirt from wire prior to wire entry into the liner conduit
- Can decrease the coefficient of friction in the liner as much as 50%
- Perfect for work on aluminum wire

Item#

190455

6 per pack.



3M Spark Deflection Paper and Dispenser

Shield Vertical Surfaces from Sparks and Spatter that Fly Out When Welding or Grinding

- Item# 207249: flame-retardant paper comes with adhesive backing for easy application to vertical surfaces
- Adhesive backing allows for repositioning of the spark deflection paper as needs change at a work site
- Item# 207250: simple, convenient tool for keeping paper at your fingertips during automotive welding jobs
- Built to hold and dispense 24" rolls
- Weights less than 5 pounds, is very easy to assemble, and can be mounted vertically on walls or horizontally on tables or benches

Item#	Description
207249	Welding Spark and Deflection Paper, 24" x 150' (Case of 2)
207250	Dispenser

HOBART
WELDS PRODUCTS

Single Flint Striker

- High tensile wire frame delivers a good spark on demand

Item#	Description
294618	Flint Striker
294617	Replacement Flints (pk of 5)



THERMAL DYNAMICS

Cutmaster® 60i Plasma Cutting System SL60QD™ 1Torch®

- Delivers reliable performance and best in-class cutting arc length
- Offers 750% duty cycle at 60A with automatic multi-voltage detection from 208-480V
- Integral multi-handle design assures greater portability
- SL60QD 1Torch quick disconnect with ATC® (Advanced Torch Connector) allows selective replacement of either the torch handle assembly or the torch leads, using the patented SureLok® technology
- 3/8" recommended cut capacity with greater than 1 1/2" maximum sever and 5/8" pierce
- High-visibility, oversized display features gas optimizer technology and consumables end-of-life indicator
- Amp High: 60 A, Duty Cycle 50%
- Amp High: 50 A, Duty Cycle 60%
- Amp High: 40 A, Duty Cycle 100%
- Ideal for use on agricultural equipment, automotive bodies, HVAC, light fabrication, repair, maintenance, and more



Item#	Volts	Phase	Gas Pressure	Gas Flow Req.	Cut Capacity	Leads	Torch Degree Head	Output Power	Frequency
284162	208-480V	3	90-125 PSI	142-235 l/min.	5/8"	20'	75°	7.6kW	50/60 Hz

Item# Description

284154 SL60QD™ 1Torch Only

THERMAL DYNAMICS

Cutmaster® TRUE 42 Plasma System with SL40 Torch

High Quality, Single Phase System

- At 230V, the Cutmaster® 42 delivers 40A and a recommended cut capacity of 3/8"
- Vent2Shield (V2S) technology allows use of a considerably smaller compressor (less weight to carry, can be used with 120V) compared to similar 40A units
- Cutting Specs 120V: cuts manual 1/4"-5/8", pierces 1/4"
- Cutting Specs 230V: cuts manual 3/8"-3/4", pierces 3/8"
- Ideal for use on agricultural equipment, automotive bodies, HVAC, light fabrication, repair, maintenance, and more



Item#	Volts	Phase	Gas Pressure	Gas Flow Req.	Cut Capacity	Leads	Torch Degree Head	Output Power	Frequency
284163	120/230V	1	75 PSI	91 l/min.	3/8"	15'	75°	3.8kW	50/60Hz

Miller

Weldcraft® Alumina Nozzles

- Item# 291763: for use with A-150 Series, A-200 Series, W-350 Series, W-400, and W-410 torches
- Item# 291780: for use with WP-17, WP-17V, WP-18, WP-18V, and WP-26V torches
- Item# 291765: for use with 17, 17V, 18, 18SP, 18V, 26, and 26V products



Item#	Description	Mfg. Model#
291763	#6	10N48
291780	#7	54N15
291765	#8	54N14

Miller

Weldcraft® Alumina Non-Gas Lens Nozzles

- Item# 291769: for use with WP-9, WP-20, WP-25, and W-350 torches
- Item# 291770: for use with WP-9, WP-20, WP-25, and W-350 torches
- Item# 291767: for use with WP-17, WP-17V, WP-18, WP-18V, WP-26, and WP-26V torches
- Item# 291771: for use with WP-17, WP-17V, WP-18, WP-18V, WP-26, and WP-26V torches



Item#	Description	Mfg. Model#
291769	#5	13N09
291770	#6	13N10
291767	#7	10N47
291771	#8	10N46

Miller Weldcraft® A-150 Flex Valve Torch Packages

- Diamond Grip™ head design features ergonomic contact points for thumb and fingers
- Item# 291814 includes: Flex valve torch body, handle, 1-piece 12.5' rubber power cable, and long back cap
- Item# 291803 includes: Flex valve torch body, handle, 1-piece 25' rubber power cable, and long back cap
- Item# 291808 includes: Flex valve torch body, positive stop handle, 1-piece 25' rubber power cable, and long back cap



Item#	Description	Mfg. Model#
291803	12.5 Power Cable	WP-17V-12R
291808	25' Power Cable	WP-17V-25R
291814	25' Power Cable & Positive Stop Handle	WP-17V-25R

Miller Weldcraft® A-200 Flex Valve Torch Packages

- Delivers dependable performance for heavy-duty welding applications
- Flexible neck easily adjusts to any angle for better torch control in limited access joints
- Item# 291822 includes: Flex valve torch body, handle, 1-piece 25' rubber power cable, and long back cap
- Item# 291815 includes: Flex valve torch body, handle, 2-piece 25' rubber power cable, and long back cap



Item#	Description	Mfg. Model#
291822	1-Piece Power Cable	WP-26FV-25-R
291815	2-Piece Power Cable	WP 26FV-25-2



VICTOR
IN 1922

Journeyman II EDGE 2.0 Plus Cutting & Welding Outfit

- Heavy-duty outfit cuts up to 8" and welds up to 3" with accessories
- Outfit includes: CA 2460+ cutting attachment, WH 315FC+ welding handle, cutting tip, tip cleaner, striker, goggles, hose, welding nozzle, and (2)-EDGE 2.0 ESS42 Series regulators
- Ideal for industrial and general fabrication, repair, maintenance, structural steel fabrication, and more
- Inlet: CGA 510 or CGA 540

Item#	Max Welding	Max Cutting	Head Angle	Mfg. Model#
284139	3"	8"	90°	0384-2111



VICTOR
IN 1922

Medalist® 350 Heavy-Duty Torch Cutter Kit

Optimum Durability for Tough Work Sites

- System is constructed with top quality materials
- Built-in check valves add convenience
- Equipped with G350 Series regulators and 1 cutting attachment for all fuel gases (with proper tip)
- Ideal for industrial and general fabrication, repair and maintenance, structural steel fabrication, and more
- Includes: regulators, torch handle, cutting attachment, welding nozzle, cutting tip, 25' hose, striker, and soft side goggles

Item#	Max Welding	Max Cutting	Mfg. Model#
284136	3"	8"	0384-2690

VICTOR
IN 1922

400 Series ST400C Torch Cutter Kit

- Extra heavy-duty cutter is ideal for heavy fabrication, oil and gas, demolition, recycling, and more
- Features built-in flashback arrestors and check valves
- Precision balanced for operator comfort
- Handle is made from a specially-designed high strength alloy that is 3x the tensile strength of forged brass
- Improved stainless lever increases comfort and reduces operator fatigue
- Uses #000 to #6 cutting tips
- Kit includes ST400C torch handle, 2-1-101 cutting tip, G350-150-540 oxygen regulator, and G350-15-510 fuel gas regulator
- G Series regulators meet or exceed industry safety standards

Item#	Head Angle	Mfg. Model#
284133	90°	0384-2694



VICTOR
IN 1922

ST Series Heavy-Duty Straight Cutting Torches

- Built-in reverse flow check valves eliminate the need for accessory check valves
- Item# 284129: alloy material handle offers 3x the tensile strength of brass
- Withstands tough use and minimizes dents and scratches
- Intuitive knobs are color-coded and have clearly marked lettering with increase/decrease labels
- Ideal for industrial and general fabrication, repair, maintenance, structural steel fabrication, and more

Item#	Cutting Range	Valve Position	Mfg. Model#
284129	Up to 6"	Top Rear	ST 400C
284135	1/8"-5"	Bottom Rear	ST 1000FC
289134	1/8"-5"	Top Rear	ST 900FC



Miller

HD Cutting Attachments

- Equipped with slip-in cutting tips, triple O-ring seal, and three-tube construction
- Features ease-on oxygen cutting valve
- Solid silver-braced construction with nickel-plated surface adds durability

Item#	Description	Mfg. Model#
290368	75°	SC205
290369	90°	SC209

Cuts up to 8" Thick Steel



Miller

Acetylene Combination Torch Kits

Torch is capable of cutting up to 1/2" with tips included.

- Kit includes:
- Torch handle
 - Cutting attachment
 - (2)-cutting tips
 - Torch mount flashback arrestors

Item#	Description	Mfg. Model#
290352	Medium Duty	16281
290351	Heavy-Duty	16280





G150 Single Stage Regulators

Compact, Lightweight Regulator Engineered for Light Duty Applications

- Easy-to-read high contrast gauges feature scale and red tick marks to indicate actual service pressure
- Ergonomic, color-coded knobs indicate gas type and are designed to add comfort during gas pressure adjustments
- High strength alloy bonnet offers nearly twice the yield strength of brass
- Features low profile, compact design regulator with less knob stick out
- Ideal for light fabrication, HVAC, and more

Item#	Description	Operating Temp.	Mfg. Model#
284158	Oxygen	0-120°F	0781-4227
284159	Acetylene	0-120°F	0781-4233



GT350 Heavy-Duty Two-Stage Regulators

- High contrast, easy-to-read gauges feature scale and red tick marks to show actual service pressure
- Easy-to-grip, color-coded knobs indicate gas type and are designed for more comfortable gas pressure adjustments
- High strength alloy bonnet offers nearly twice the yield strength of brass
- Compact regulator with less knob stick-out provides low profile convenience
- Ideal for industrial and general fabrication, manufacturing, repair, maintenance, structural steel fabrication, civil construction, and more

Item#	Description	Delivery Range	Max Inlet	Mfg. Model#
284160	Oxygen	5-150 PSIG	3000 PSIG	0781-4255
284161	Acetylene	2-15 PSIG	3000 PSIG	0781-4258

Engineered for Tough Applications



SR 450 Heavy-Duty Single-Stage Regulators

- Recommended for applications where slight delivery pressure increases, due to decreasing cylinder pressures, would not affect the performance characteristics of the work or test results
- Tried and true brass design delivers excellent gas control characteristics that meet the demands of precise cutting, welding, and heating applications
- Ideal for use in industrial and general fabrication, manufacturing, repair, maintenance, structural steel fabrication, civil construction, and more

Item#	Description	Delivery Range	Max Inlet	Mfg. Model#
284109	Oxygen	5-125 PSIG	3000 PSIG	0781-0532
284110	Acetylene	5-125 PSIG	3000 PSIG	0781-0584

Gas Control You Can Depend On



MIG TIG Two-Gas Flow Meter

- Flowtube and outer tube are constructed of impact-resistant lexan for severe applications
- Cover tube contains overpressure protection
- Back pressure compensated to ensure accurate readings at all times, even when restrictions are present
- Calibrated to operate at 25 psig inlet pressure to minimize surge
- For MIG and TIG operations

Heavy-Duty Design

Item#	Flow Range	Inlet Fitting	Outlet Fitting	Inlet Pressure	Mfg. Model#
284111	10-60 Air, 10-60 Nitrogen SCFH	1/4" NPT(M)	5/8"-18 RH(F)	25 PSIG	FM-150

WARNING: Not designed for cylinder use, do not exceed calibrated inlet pressure.



Heavy-Industry Multi-Flame Heating Nozzle

Reliable, Uniform Flame

- Multi-flame heating head for heat treating, straightening, and priming
- Built-in spiral mixer is individually designed for each tip size and flame characteristic

- Each nozzle is individually swaged to ensure proper alignment for uniform flame, sizing, and free-flow contour
- Ideal for industrial and general fabrication, repair, maintenance, structural steel fabrication, and more

Item#	Size	Type	Mfg. Model#
284117	6	MFA-J	0325-0106
284113	12	MFA	0323-0261
284116	6	MFA-1	0324-0110



B-Size Regulator Flash Arrestor Set

- Built-in check valve prevents reverse flow of gas, stopping flashback from occurring
- Fits all 1/4"-18 size regulators and torches

- Bronze sintered element stops multiple flashes
- High flow capacity
- 100% flame and leak tested

Item#
255172



TWECO

Spray Master® V350 AMP MIG Guns

Longer-Lasting Durability, Improved Performance, Easier to Use

- Heavy-duty contact tip and diffuser offer better electrical conductivity
- 3-layer conductor tube – copper tube/silicon-resin glass insulator/metal jacket – improves electrical conductivity
- Convenient gun hanger at bottom allows the gun to rest when not in use
- Features ergonomic handle, extended trigger, and steel spring strain relief
- 15' wire length
- Ideal for medium and heavy-duty fabrication

Item#	Amp	Wire Size	Rear Style Connection	Mfg. Model#
284138	350	Up to 1/16"	Tweco®	1036-1756
284140	350	Up to 1/16"	Lincoln®	1036-1762

*The Industry Standard
For Over 40 Years*

TWECO

Velocity Classic® Rear Connector MIG Guns

Improved Performance with Longer Life Consumables

- Heavy-duty handle is balanced to pivot at the center, allowing use in different welding positions
- Reduces grip requirement to minimize hand fatigue
- 3-layer conductor tube construction – copper tube/silicon-resin glass insulator/metal jacket – improves electrical conductivity
- Silver-plated contacts in trigger provide self-cleaning action every time it's engaged or disengaged
- Field-repairable Cablehoz® requires no additional connectors
- Convenient gun hanger allows gun to rest when not in use
- Split handle case provides access for easier repairs
- Works with a wide selection of front end consumables
- 10' wire length
- Velocity No. 3: designed for medium duty fabrication
- Velocity No. 4: ideal for medium and heavy-duty fabrication

Item#	AMP	Wire Size	Rear Style Connection
<i>Velocity No. 3:</i>			
284147	300	Up to .045"	Lincoln®
284148	300	Up to .045"	Miller®
<i>Velocity No. 4:</i>			
284149	400	Up to .035"	Lincoln®
284150	400	Up to .045"	Miller®



Handler® 140 Air-Cooled Semi-Automatic MIG Gun

- H-100S2-10 MIG gun is designed for Handler® 135, 140, 175, 180, or 187 MIG welders
- 10' length

Item#	AMP	Wire Size	Mfg. Model#
294635	100	.030"-.035"	245924R



Air Cooled MIG Guns

- Designed to use Tweco® style front end consumables
- Comfort grip trigger and handle
- Easy swivel gun tube
- 15' length

Item#	AMP	Wire Size	Rear Style Connection
208182	250	.035"-.045"	Lincoln®
208183	250	.035"-.045"	Miller®

TWECO

11 Series Standard Contact Tips

- Air-cooled and constructed from 360 brass alloy
- Ensures proper contact with a gas diffuser when installed on a MIG gun
- Great for light to medium duty applications up to 400 amp

Item#	Wire Size	Mfg. Model#	Item#	Wire Size	Mfg. Model#
294081	.023"	1110-1100	294083	.035"	1110-1102
294082	.030"	1110-1101	294086	.040"	1110-1103



TWECO

Velocity2™ Medium Duty Contact Tips

Superior Welding Performance with a Smooth, Stable Arc

- Air-cooled tips feature solid copper conductor with fewer connections
- Provides optimized electrical surface contact and wire feed-ability with centered liner

Item#	Wire Size	Mfg. Model#	Item#	Wire Size	Mfg. Model#
288512	.023"	1160-1750	288514	.035"	1160-1752
288513	.030"	1160-1751	288517	.040"	1160-1753

**No Threads,
No Tools Required!**



TWECO

Velocity2™ Heavy-Duty Contact Tips

- Remains cooler to extend service life
- Greater contact surface area
- All-copper contact conductor path to the tip

Item#	Size	Mfg. Model#	Item#	Size	Mfg. Model#
288524	1/8"	1160-1771	288526	3/32"	1160-1769
288528	.030"	1160-1760	288530	.040"	1160-1762



TWECO

54 Series Gas Diffusers

- Air-cooled and constructed from 360 brass alloy
- Great for light to medium duty applications up to 400 amp

Item#	Material	Nozzle Type	Mfg. Model#	Item#	Material	Nozzle Type	Mfg. Model#
294091	Brass	24A, 24CT, and 23	1540-1100	294098	Brass	HD 24	1540-1136
294093	Brass	24A, 24CT, and 23	1540-1104	294100	Brass	HD 54-EL	1540-1137
294095	Brass	HD 24	1540-1135				

*Ideal for
#3 and #4 MIG Guns*



TWECO

21 Series Nozzles

Tapered, 3-Piece Design

- Air-cooled slip-on nozzles are self-insulated
- Used in light to medium duty applications up to 180 amp

Item#	Size	Mfg. Model#	Item#	Size	Mfg. Model#
288520	3/8" Tip Recess	1210-1100	288523	1/2" Tip Recess	1210-1110
288521	3/8" Tip Flush	1210-1102	288527	1/2" Tip Flush	1210-1112



TWECO

HD24 Series Nozzles

- Air-cooled, slip-on nozzles are self-insulated and have a 3-piece design
- Designed for use with Classic No. 4, Spray Master 450, and Supra XT MIG guns

- Does not require additional insulator
- 1/8"-3/32" tip recess
- Great for heavy-duty applications up to 180 amp

Item#	Size	Mfg. Model#	Item#	Size	Mfg. Model#
294876	3/8" Dia. Standard	1240-1242	294878	1/2" Dia. Tapered	1240-1202
294877	1/2" Dia. Tapered	1240-1200			



**TOP
SELLER**



Spoolarc 86 Elite Series Copper-Coated Solid Welding Wire

Excellent Wetting Action and a Highly Fluid Weld Puddle

- Suitable for many carbon steel welding applications using the MIG/Gas Metal Arc Welding (GMAW) process
- High levels of deoxidizers provide excellent tolerance of rust and mill scale, while high levels of manganese and silicon offer superior wetting action and optimal fluid weld puddle
- Ideal for use in automotive, HVAC duct work, industrial and general fabrication, mobile equipment, ship and barge building, and structural steel fabrication

Item#	Size	Mfg. Model#
284101	.035"	1382F05
284102	.045"	1382F07

44 lb. per spool.



OK AristoRod™ 12.50 Bare Solid Welding Wire

Great for Welding over Moderate to High Levels of Rust and Mill Scale

- Unique wire surface improves feed-ability and arc stability, provides extended corrosion resistance and arc starting properties, and reduces contact tip wear
- Contains sufficient levels of manganese and silicon to provide a fluid weld puddle with superb wetting action
- Ideal for welding carbon steels in structural, automotive, agricultural, heavy equipment, and other general fabrication

Item#	Size	Mfg. Model#
284103	.035"	1A50096910
284104	.045"	1A50116910

40 lb. per spool.



NEW

Dual Shield 710X Flux Cored Welding Wire

Minimum Splatter... Easily Removed Slag

- All-position flux cored wire for general purpose welding in civil construction, rail cars, barges, light equipment, and general fabrication
- Provides an easily controlled arc, improved operation at both lower and higher current levels, minimal spatter, and easily removed slag
- Can be used with 100% CO₂, and is recommended for applications where weld joint restraint is high

Item#	Size	Mfg. Model#
293972	.045"	245019252
293973	1/16"	245019278

33 lb. per spool.

**Quality & Versatility for
Many Applications**



Sureweld® 6011 Stick Welding Electrodes

Offers Easy Arc Control and a High Quality Weld Metal

- All-position, cellulosic type electrode produces easily controlled forceful arc with deep penetration
- Delivers high quality weld metal that will pass specification requirements for radiography
- Used primarily for welding mild steels and ABS hull and boiler steel
- Ideal for welding of buildings, piping, shipbuilding, pressure vessels and tanks, industrial and general fabrication, mobile equipment, ship and barge building, and more
- 5 lb. value pack

Item#	Size (Dia. x L)	Deposition Rate	Efficiency	Mfg. Model#
284120	1/8" x 14"	2.4 lb/h (1.1 kg/h)	70%	812000099
284122	5/32" x 14"	3.7 lb/h (1.7 kg/h)	77%	812001115

5 lb. per pack.



E71T-11 Flux Cored Wire

Great for Welding on Thin Gauge Mild and Galvanized Steel in All Positions

- Use of DC straight polarity minimizes the risk of burn through
- Suitable for outdoor welding applications

Item#	Size	Mfg. Model#
294720	.030"	E718-11
294725	.035"	E71T-11

10 lb. per spool.



Stainless Steel Wire

Provides Excellent Notch Toughness at Very Low Temperatures

- Extra low carbon wire deposits a maximum of .04% carbon in the weld metal to minimize the formation of chromium carbides and consequent susceptibility to inter-granular corrosion
- Ideal for welding Type 304L, 321, and 347 stainless steel

Item#	Description	Size	Mfg. Model#
294738	Stainless Steel	.030"	ER308L

2 lb. per spool.



6013 Stick Electrodes

- Light to medium penetrating stick electrode for use in all positions on carbon steel
- 60,000 PSI tensile strength
- Runs on AC or DCEP (reverse) polarity or DCEN (straight) polarity
- Great for general purpose applications and joints with poor fit-up

Item#	Size
294677	1/8"
294675	3/32"
294681	5/32"

10 lb. per pack.



ER70S-6 Welding Wire

General Purpose Solid Welding Wire for Fabrication of Mild Steel

- Additional deoxidizers provide better wetting, giving a flatter bead shape and the capability of faster travel speeds
- Conforms to AWS A5.18

Item#	Size
294731	.030"
294734	.035"

33 lb. per spool.



Aluminum MIG Wire

- Item# 294735: offers excellent corrosion resistance when exposed to salt water
- Provides high shear strength
- Designed for welding 5000 series aluminum base metals
- Item# 294736: bright weld finish makes it a popular choice of welders
- Contains silicon additives, which result in improved fluidity (wetting action) of the weld pool
- Produces a weld less sensitive to cracking
- Great for welding various grades of aluminum

Item#	Description	Size	Mfg. Model#
294735	Aluminum Alloy	.030"	ER5356
294736	Aluminum	.035"	ER4043

1 lb. per spool.



All Purpose Electrode For Carbon and Galvanized Steel



6011 Stick Electrodes

Great for Use in All Positions on Carbon and Galvanized Steel

- Deep penetrating electrodes are ideal for welding through light to medium amounts of dirty, rusty, or painted materials
- 60,000 PSI tensile strength
- Runs on AC or DCEP (reverse) polarity

Item#	Size	Item#	Size	Item#	Size
294668	1/8"	294665	3/32"	294672	5/32"

10 lb. per pack.



Rebel™ EMP 215ic Multi-Process Dual-Voltage MIG, Stick, and TIG Welder

A True Multi-Process Welder for Novices and Pros

A complete package to weld anything – mild steel, aluminum, stainless steel – and it goes anywhere.

- True multi-process performance for best-in-class MIG, Flux-Cored, Stick, including 6010 Stick electrodes, and Lift TIG welding
- Exclusive sMIG ("smart MIG") feature continuously learns and adapts to the operator's welding technique to provide a stable arc and superior, repeatable welds
- Helps increase productivity for the experienced welder and reduces training time for novice welders
- Innovative display has larger screen and higher pixel density to provide a clearer view of the TFT screen than other light industrial welders
- Features on-demand availability of the user's manual and listing of spare parts in multiple languages
- Unique, five-handle roll cage design and uni-body steel construction in a lightweight unit assure maximum portability
- Comes ready-to-weld with professional-grade Tweco® Fusion™ MIG gun, electrode holder, earth clamp, TIG torch with accessories, and Victor® gas regulator
- Shielding gas not included
- Ideal for light fabrication, repair, maintenance, automotive, mechanical contractors, civil construction, agricultural equipment, HVAC, and more

MIG Welding Output

130 A/20.5 V (120 V) @ 20% Duty Cycle

205 A/24.3 V (230 V) @ 25% Duty Cycle

Stick Welding Output

90 A/23.6 V (120 V) @ 40% Duty Cycle

180 A/27.2 V (230 V) @ 25% Duty Cycle

TIG Welding Output

130 A/15.2 V (120 V) @ 40% Duty Cycle

180 A/17.2 V (230 V) @ 30% Duty Cycle

Item#	Primary Voltage	Max Plate Thickness	Maximum Output	Generator Size Recommendation	Current Range	Mfg. Model#
284098	120 VAC, 208/230 VAC	3/8"	240 A	3.7kVA (110V); 7.5kVA (230V)	5-150A	05581022240



Multi-process performance in a portable package

Rebel™ EMP 235ic Multi-Process Dual-Voltage MIG, Stick, and TIG Welder

- Delivers the power and performance to handle even the most demanding jobs
- Conveniently placed handles, roll cage, and 53 lb. size assure unmatched portability
- Features rugged uni-body steel industrial housing and dual voltage capability
- Runs the full range of .035" wire – short arc and spray transfer, up to .045" solid wire and up to .052" cored wire, rods up to 1/8", and TIG rods up to 3/16"
- Innovative "smart-MIG" feature dynamically monitors arc characteristics, adapting to your technique and resulting in a smooth, stable arc
- Easy-to-operate for welding up to a 1/2" on mild steel, measuring in at 235 A at 40% duty cycle with a max output of 250 A/30 V
- Wire Diameter Range: Mild Steel .023 – .045", Stainless Steel .030 – .045", Aluminum .030 – 1/4", Flux Cored .030 – .052"
- Ideal for light fabrication, repair, maintenance, automotive, mechanical contractors, civil construction, agricultural equipment, HVAC, and applications requiring MIG, gasless, and gas-shielded Flux-Cored wire, Stick, and TIG

MIG Welding Output @ 104°F

120 A/19 V (120 V) @ 40% Duty Cycle

235 A/26 V (230 V) @ 40% Duty Cycle

Stick Welding Output @ 104°F

90 A/23.6 V (120 V) @ 40% Duty Cycle

210 A/28.4 V (230 V) @ 40% Duty Cycle

TIG Welding Output @ 104°F

130 A/15.2 V (120 V) @ 40% Duty Cycle

240 A/19.6 V (230 V) @ 40% Duty Cycle

Item#	Primary Voltage	MIG Welding Voltage Range	Maximum Output	Wire-Feed Speed Range	Max Plate Thickness	Current Range	Mfg. Model#
284099	120 VAC, 208/230 VAC	10-30V	250A/30V	60-700 IPM	1/2"	5-150A (120V), 5-250A (230V)	0558012702

Rebel™ EMP 285ic Multi-Process Dual-Voltage MIG, Stick, and TIG Welder Portable, All-Process Machine

NEW

- Confidently works with full range of .045" wire, short arc, and spray transfer
- Provides increased deposition rates and higher productivity on smaller .030" and .035" wire
- Innovative sMIG ("smart MIG") Technology dynamically monitors the arc characteristics and adapts to your welding technique, resulting in a smooth, stable arc
- 4 Roll Drive System allows welds up to .052" solid wire, up to 1/16" cored wire, electrodes up to 3/16", and TIG rods up to 3/16"
- TFT multi-lingual display has 4 programmable memory locations for each process and shows trim adjustment, inductance control, pre/post flow control, and spot weld setting
- Item# 294900 includes cart for convenient transport
- Ideal for use in agricultural equipment, civil construction, industrial and general fabrication, repair, maintenance, training schools, and more

MIG Welding Output

285 12-34 V/28 V (120 V) @ 40% Duty Cycle
220 12-34 V/25 V (230 V) @ 60% Duty Cycle
160 12-34 V/22 V (230 V) @ 100% Duty Cycle

Stick Welding Output @ 104°F

260 12-34 V/30 V (120 V) @ 40% Duty Cycle
210 12-34 V/28 V (230 V) @ 60% Duty Cycle
135 12-34 V/25 V (230 V) @ 100% Duty Cycle

TIG Welding Output @ 104°F

285 12-34 V/21 V (120 V) @ 40% Duty Cycle
240 12-34 V/19 V (230 V) @ 60% Duty Cycle
185 12-34 V/17 V (230 V) @ 40% Duty Cycle



Item#	Description	Rated Output Amps @ Duty Cycle	Maximum Output	Input Rating	Max Plate Thickness	Mfg. Model#
294899	Single Phase	285A @ 40%	300A	110V/230V	24 ga. 1/2"	0558102554
294900	Single Phase w/Cart	285A @ 40%	300A	110V/230V	24 ga. 1/2"	0558102555

Renegade™ ET 300iP TIG Welder

Designed to Go Virtually Anywhere in the Shop and On the Jobsite

- Automatically handles single- and three-phase power from 208V to 460V, and puts out 5 to 300 amps
- Highest power-to-weight ratio in its class, producing 300 A at 40% duty cycle
- Rugged case construction lets you work in the most extreme environments in the industry
- 37.25 lb. system has 3-handle design to make transportation and maneuvering easier through manholes and other hard-to-reach areas
- Pulse HF TIG. 0.1-1000 pulse frequency range provides the widest range in its category, giving maximum precision
- Features better arc control, penetration, and increased travel speeds
- Digital readout display and large buttons with excellent feedback and controls allow you to set parameters and read them from a distance
- Includes power supply, 10' input cable, shoulder strap, and 2 male 50mm OKC connectors
- Ideal for use in aerospace, civil construction, food and beverage, industrial and general fabrication, petrochemical, pipe construction, repair, maintenance, ship and offshore yards, and more



TIG Welding Output

300A/2.0V 40% Duty Cycle
250A/20.0V 60% Duty Cycle
200A/18.0V 100% Duty Cycle

MMA Welding Output

300A/32.0V 40% Duty Cycle
250A/30.0V 60% Duty Cycle
200 A/28.0V 100% Duty Cycle

Item#	Primary Voltage	Energy Save Mode	Maximum Output	Power Factor At Max Current	Efficiency At Max Current TIG/MMA	Open Circuit Voltage w/ w/o VRD	Current Range	Mfg. Model#
284100	230 VAC +/- 10%, 50/60Hz	88 W at 400 V	300A	0.96	88%/84%	33V/48V	5-300A	0445100921



KNIGHT
SAFETY & INDUSTRIAL