



**CATEGORY DEFINITION**

Depressed center wheels may also be referred to as raised hub wheels or by their shape designation of “Type”, with Type 27 being the most popular. The depressed center design allows the flange/lock nut to recess within the wheel so that it can be used for various grinding and cutting applications. Depressed center wheels are designed to handle the most severe right angle grinding applications from heavy stock removal to rough blending. More recently, depressed center wheels have been designed to increase the utility of the tool for cut-off applications. While large right angle grinders (7" & 9") have been around for many years, small or mini grinders that handle 4", 4-1/2" and 5" wheels have made this machine, and wheel category, the most popular in power tools.

- APPLICATIONS:** Grinding, stock removal, edge chamfering, beveling, weld blending, and cutting-off
- SIZE RANGE:** 2" – 9"
- THICKNESS RANGE:** .040 – 1/4"
- GRIT RANGE:** 24 – 46 grits for stock removal; 60, 80 grits for blending and finishing
- ABRASIVE GRAIN:** Ceramic Alumina, Diamond, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
- MOUNTING OPTIONS:** Plain hole (3/8", 5/8" and 7/8") and discard mount (5/8"-11)
- SHAPE:** Type 27, Type 28, Type 29

**TYPE-TO-APPLICATION RECOMMENDATION GUIDE**

WHEEL TYPE/THICKNESS	APPLICATIONS		
<b>TYPE 27</b> 	<b>Type 27 wheels are essentially straight wheels that have a “depressed center/raised hub”.</b> Different types of fiberglass reinforcement mesh give the product stability for use on the periphery, on the face, or a combination of the two.	 90° ANGLE	 30° ANGLE
.040", .045", and 1/16" Type 27/42 RightCut	Cutting only, where fast cutting and low kerf loss are desired	■	
.3/32" and .125" Type 27/42	For tough cutting and notching applications where stability is important; cutting and cleaning burr-free narrow root pass welds	■	
1/8" Type 27	For multiple applications ranging from cutting-off, notching and light-duty side grinding	■	■
1/8" Pipe Notcher Type 27	2-1/2 pieces of reinforcement; durable face grinding; root pass grinding without removing pipe material	■	■
1/8" Type 27 Flexible	For light stock/blending/finishing/polishing		■
1/8" Type 27 Foundry Notchers	Triple-reinforced for grinding steel and dirty/scale-covered castings; removing and cleaning gates and risers	■	■
1/4" Type 27	For heavy-duty to light grinding on the bottom/face of the wheel		■
1/4" Type 27 Foundry Snaggers	Designed for cleaning parting lines, pads and slag		■
1/4" Type 27 Heavy-Duty Foundry	Triple-reinforced for the most aggressive foundry applications		■
<b>TYPE 28</b> 	<b>Type 28 wheels are constructed with a downward angle built into the grinding section to facilitate a flatter grinding angle.</b> These wheels can only be used on the face and never on the periphery for cutting-off.		 15° ANGLE
1/4" Type 28 Saucers	Smooth, gouge-free grinding at shallow angles		■
<b>TYPE 29</b> 	<b>Type 29 wheels are constructed with an upward angle built into the grinding section to provide full face contact for light stock removal and blending operations.</b> These wheels can only be used on the face and never on the periphery for cutting-off.		 15° ANGLE
1/8" Type 29 Flexible, AVOS	Polishing and blending applications		■



MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	<b>BEST</b> HIGHEST PRODUCTIVITY LOWEST TOTAL COST	<b>BETTER</b> EXCELLENT BLEND OF PERFORMANCE & PRICE	<b>GOOD</b> CONSISTENT PERFORMANCE LOW INITIAL PRICE
<b>Cutting</b>			
Mild Carbon / High Tensile Steel	Norton NorZon Plus	Norton BlueFire	Norton Metal
Stainless Steel / Alloys	Norton NorZon Plus	Norton BlueFire <i>FC/INOX/SS</i>	Norton Gemini <i>INOX/SS</i>
Contaminate Free		Norton BlueFire <i>FC/INOX/SS</i>	Norton Gemini <i>INOX/SS</i>
Cast Iron	Norton NorZon Plus	Norton BlueFire	Norton Gemini
Gray Iron		Norton BlueFire Foundry	
Aluminum / Bronze / Brass			Norton Gemini Aluminum
Asphalt / Brick / Concrete			Norton Masonry
Fiberglass / Plastic			Norton Masonry
<b>Notching</b>			
Mild Carbon / High Tensile Steel	Norton NorZon Plus	Norton BlueFire	Norton Metal
Stainless Steel / Alloys	Norton NorZon Plus	Norton BlueFire <i>FC/INOX/SS</i>	Norton Gemini <i>INOX/SS</i>
Contaminate Free		Norton BlueFire <i>FC/INOX/SS</i>	Norton Gemini <i>INOX/SS</i>
Cast Iron	Norton NorZon Plus	Norton BlueFire	Norton Gemini
<b>Grinding</b>			
Mild Carbon / High Tensile Steel	Norton NorZon Plus	Norton BlueFire	Norton Metal
Stainless Steel / Alloys	Norton NorZon Plus	Norton BlueFire <i>FC/INOX/SS</i>	Norton Gemini <i>INOX/SS</i>
Contaminate Free		Norton BlueFire <i>FC/INOX/SS</i>	Norton Gemini <i>INOX/SS</i>
Cast Iron	Norton NorZon Plus	Norton BlueFire	Norton Gemini
Gray Iron	Norton NorZon Plus Foundry	Norton BlueFire Foundry	Norton Gemini
Aluminum / Bronze / Brass			Norton Gemini Aluminum
Asphalt / Brick / Concrete			Norton Masonry
<b>Blending</b>			
Mild Carbon / High Tensile Steel			Norton Gemini Flexible
Stainless Steel / Alloys			Norton Gemini Flexible
Aluminum / Bronze / Brass			Norton Gemini Flexible
Fiberglass / Plastic			Norton Gemini Flexible

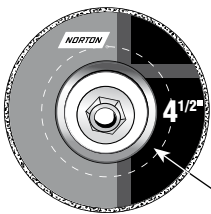
TYPICAL STEEL, STAINLESS STEEL, CAST IRON PRODUCTS: ANGLE IRON, BAR STOCK, DUCTILE PIPE, CHANNEL IRON, DECKING, REBAR, I-BEAMS, RAIL STEEL, STUDS, TUBING, AND WELDS

HOW TO PICK THE RIGHT BOND TYPE

<b>Standard</b>	Unmarked	Where an excellent blend of cut rate and life is needed
<b>Fast Cut</b>	<i>FC</i>	Where fast stock removal is needed, or the application only allows for low-pressure or under-horsepowered grinders
<b>Long Life</b>	<i>LL</i>	Where durability is needed due to severe application, and when horsepower of the grinder allows for heavy pressure
<b>Contaminate Free</b>	<i>INOX/SS</i>	Contain <0.1% iron, sulfur or chlorine for rust-free and corrosion-free results. Will not contaminate stainless steel

HOW TO PICK THE RIGHT MOUNT

Most wheel sizes come with a plain hole or a discard mount option. While the plain hole has a small, initial cost advantage, the discard mount can provide a labor cost advantage with the quicker wheel change.

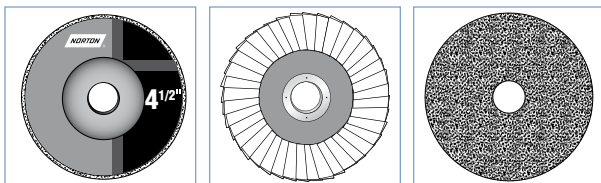


**Mini-Mount Hub**

Our unique, patented mini-mount hub used on 4-1/2" and 5" depressed center wheels provides up to 30% more wheel life because the hub covers just a small surface area, providing maximum grinding area exposure and usage.

STANDARD THROW-AWAY HUB SIZE

WHY CHOOSE DEPRESSED CENTER WHEELS?



**Depressed Center Wheels vs. Flap Discs or Fiber Discs**

- Up to 5X life over flap discs, less downtime
- Up to 100X life over fiber discs, less downtime
- Rigidity for severe operations and high power grinders
- 1/8" wheels can be used for cutting and grinding
- Can be used to grind inside corners at outer edge of wheel



CROSS REFERENCE GUIDES

TYPE 27/42 RIGHTCUT – .040" - 1/16"

NORTON	TOTAL PERFORMANCE			INITIAL PRICE			SPECIALTY
	BEST NorZon Plus	BETTER BlueFire	GOOD Gemini INOX/SS	Gemini Long Life	Gemini	Metal	GOOD Gemini Aluminum
Brilliant	—	—	—	Brill-Blade Heavy Duty	Brill-Blade Extra FC	Hornet	—
Bullard	—	ZA60T	—	TA46T, TA60T TA60U	SGA60U	A46T, A60T Comp.	AL46N
Camel	—	ZA Quickie Cut	A60-T-BF, WA60R Quickie Cut	Super Quickie Cut	A36-S-BF	—	A46 Quickie Cut
Flexovit	—	—	—	Razorblade A60SST	Razorblade A24T, 30V, 36T	—	—
Pearl	—	Redline Max Slimcut	—	Slimcut	—	Slimcut Pro-V, Silverline	—
Pferd	—	SGP-ZA-Q-INOX	SG-A-R-INOX, SGP-A-S-INOX	SG-A-S, SGP-A-T	—	PSF-A-P	S-G-N-ALU
Sait	—	Z-tech	XA46R	—	A60S, Saitech	SAIT.M.X	A46N
Spedecut	—	—	—	—	—	A46, 60 TBXX	—
Walter	—	—	A-60SS-ZIP	—	A-60-ZIP, A-30-ZIP	—	A-60-ZIP-ALU

TYPE 27 AND 28 – 1/8" AND 1/4"

NORTON	TOTAL PERFORMANCE					INITIAL PRICE				SPECIALTY	
	BEST NorZon Plus	NorZon Plus Long Life	BETTER BlueFire FC/INOX/SS	BlueFire	BlueFire Foundry	GOOD Gemini	Gemini Fast Cut	Gemini INOX/SS	Metal	GOOD Gemini Aluminum	Masonry
Brilliant	—	—	Brill-Max Z24R	—	—	Brill-Tex A24UHPXL, A30T	Brill-Tex A24R Super-G	Brill-Tex A30P	Hornet Metal	Brill-Tex 30ALU	Brill-Tex C30P, Hornet Concrete
Bullard	TA24S	—	ZA24R	ZA24R Competitor	—	A24R	A24N	A46Q	A24R Competitor	AL36N	C24R
Camel	—	—	ZA24T	—	—	A24R	Ultra A24-N-BF, A24T Super Quickie Cut	WA24S	A24N, R&T Fast Cut	A30N, Fast Cut	C24R
Flexovit	Flexon ZA20Q	Flexon ZA24P ZA30T	—	Metalhog AXT24S	Flexon ZA16U	High Performance A24/30T	High Performance A30S, Specialist A30Q & R	Free Grind A30Q	—	Specialist A24ALU	High Performance C24/30P
Metabo	—	—	ZA24T	—	—	A24R & T	A24N	A360	—	A36M	C24N
Pearl	—	—	Z24T	—	—	Premium Metal A24S, Redline Max A/WA24S	Premium Metal A24R, Redline Max A/WA24R	WA24R, SRT24	Silver Line A24R & S	D.A. Series AL24M	Silver Line C24S
Pferd	—	—	ZA R SGP, Z-SG	ZA S GP, ZA T SGP	—	A-PS, A-SG	—	A-SG INOX, A-PS INOX	—	A-SG ALU	S-SG, Masonry
Sait	Saitech Attacker, Pipeline	Saitech Ultimate Performance	Z24R Z-tech	—	CA24R - Foundry	A24R, A24 Turbo	A24N	XA24Q	—	A46N - Aluminum	C24N
Tyrolit	—	—	ZA24N-BFX	ZA24P-BFX	ZZA24R-BFX	A30S & Q-BFX	A30R-BFX	A30-BF INOX	A30-BF	A36N-BFX WA46-BF	C30-BF
Walter	—	—	Double-X, Allsteel	Allsteel XX	—	HP	—	Stainless	—	Aluminum	Concrete

TYPE 27 – FLEXIBLE 1/8"

NORTON	GOOD Gemini Flex
Brilliant	Brill-Flex
Bullard	Flexlite AC
Camel	FGF, Special Wheel
Flexovit	Flexcel
Metabo	Z-Plus
Pearl	Flexible AC
Pferd	SG-Flex
Sait	Challenger II
Walter	Flexcut



FEATURED PRODUCTS



EXPANDED OFFERING

**NORTON NORZON PLUS**

BEST/HIGHEST PRODUCTIVITY FOR STEEL, STAINLESS STEEL AND ALL OTHER FERROUS METALS

**FEATURES**

- Combination of Norton SG ceramic alumina and NorZon (zirconia alumina) with an advanced bond system
- NEW! Fast Cut – fastest cutting
- The original All Purpose – lowest total cost and best overall value
- Long Life – longest lasting
- Foundry Snagger
- RightCut wheels for cutting only

**BENEFITS**

- 50 to 200% better overall performance versus competitive zirconia and ceramic wheels
- Lowest total grinding cost; highest productivity
- Up to 10X the performance of aluminum oxide wheels
- Easy on the operator and equipment
- Best option when speed of completion is primary concern, cost of labor is high, heavy grinder is used, and grinding is difficult, or performed in hard-to-reach areas
- Best option when the best combination of life, cut rate, and lowest heat generation is primary concern, and able to measure total cost
- Best option when longest possible life is primary concern, rough grinding conditions require wheel durability, using high cycle, high horsepower grinders and lower labor cost are key
- Designed to withstand the most aggressive foundry application
- Noticeably longer life and faster cut rate
- Less pressure required for first cut



**NORTON BLUEFIRE**

BETTER CHOICE FOR STAINLESS STEEL, CARBON STEEL, ALLOYS AND GRAY IRON

**FEATURES**

- A blend of R&D advanced chemistry and shaped zirconia alumina abrasive and premium aluminum oxide grain
- Contaminate-free BlueFire **FC** (FastCut/Inox/SS)
- BlueFire Foundry
- RightCut wheels for cutting only

**BENEFITS**

- 2-3 times the life of aluminum oxide wheels
- Up to 20% increase in performance and life over our former zirconia alumina wheels
- Broad utility from light-to heavy-pressure applications, on a wide range of materials
- Excellent performance-to-price ratio for lower total grinding costs
- Contain <0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results; will not contaminate stainless steel
- Zirconia alumina/silicon carbide abrasive blend and an exceptionally strong reinforcement structure
- The ideal choice for aggressive, foundry applications
- Noticeably longer life and faster cut rate
- Less pressure required for first cut



EXPANDED OFFERING

**NORTON GEMINI**

GOOD CHOICE FOR STEEL AND FERROUS METALS AS WELL AS SPECIALTY APPLICATIONS IN ALUMINUM AND FOUNDRIES

**FEATURES**

- Quality aluminum oxide
- Gemini Contaminate Free **INOX/SS**
- NEW! 1/8" and 1/4" thick Gemini XXL grinding wheels
- UPGRADED! .045 ultra-thin Gemini RightCut wheels for cutting only
- Gemini Aluminum

**BENEFITS**

- Consistent performance at a competitive price
- Contain <0.1% iron, sulphur or chlorine for rust-free and corrosion-free results; will not contaminate stainless steel
- Fastest 100% aluminum oxide grinding wheels in the market today
- 50% more life and metal removal than standard aluminum oxide wheels
- Best on hard-grade carbon steel applications, weld repairs, flashing, and any job that requires, a quick turnaround
- Precise cutting; more stability and a narrower pass
- Up to 70% longer life and 20% faster cut rate than standard aluminum oxide wheels – for substantial savings
- Require less pressure, providing increased operator comfort
- Grind aluminum and soft metals without loading
- Contain no wax or rubber fillers



FEATURED PRODUCTS



**NORTON METAL/MASONRY**

GOOD CHOICE FOR STEEL/FERROUS METAL AND MASONRY APPLICATIONS WITH LOW INITIAL PRICE

FEATURES

- Low initial price point
- Metal – aluminum oxide
- Masonry – sharp silicon carbide

BENEFITS

- Best starting specification for end user unable to measure performance
- Engineered for all steel/ferrous materials
- Engineered for all masonry materials such as concrete, brick and asphalt



**NORTON DIALAST DIAMOND WHEELS**

BEST FOR METAL PLATE, PIPE, TUBING, CAST IRON, CARBON AND MILD STEEL, FOUNDRY AND WELDING APPLICATIONS, AND CERAMICS

FEATURES

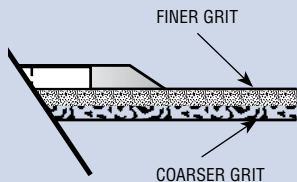
- A combination of high-quality diamond and advanced brazed single-layer bonding technology
- Environmentally friendly grinding

BENEFITS

- Extra-long life vs. conventional abrasives or other vacuum-brazed diamond tools
- Retains the diamond grains and wheel shape for full life with low spark, while keeping a continuous grinding depth
- Less blade changes reduce downtime and labor costs
- Generate minimal dust

**Norton Fine, Hard Back Depressed Center Wheels Boost Productivity and Wheel Life**

*Versus Competitors' Monolithic Design (2 coarse layers)*



Our fine, hard back (a finer-grit mixture in the top half of the grinding wheel) limits premature shedding or “spalling” and allows for a smoother grinding action from the periphery to the hub.

- At the proper grinding angle, a sharp bevel is produced at the wheel periphery
- As the wheel wears, this thin edge become susceptible to stress
- A coarse grit back is much more likely to break away prematurely resulting in unnecessary wheel loss and quite possibly an injury to operator and others



**Norton Depressed Center Adapter Kit**

This reusable adapter kit contains everything you need to mount depressed center wheels and saucers with 7/8" center holes on to portable right angle or vertical shaft grinders. Adapter hubs are threaded for mounting on to standard 5/8"-11 NCRH spindles.

KIT NO.	WHEEL DIAMETER	WHEEL THICKNESS	PART #	STD. PKG.
114	6" thru 9"	1/16" thru 1/4"	07660789275	1

**Professionals Want Choices**



We already provide the best wheels in the industry. Invented and made in America, now improved and expanded. The **Norton NorZon Plus** ceramic alumina BEST tier (highest productivity/lowest total cost) line has a wheel for all your right angle grinder applications:

- NorZon Plus Fast Cut wheels - for your applications requiring the fastest cut rate and quickest project completion
- NorZon Plus Long Life wheels - for your most demanding applications
- The Original NorZon Plus All Purpose wheels - for the lowest overall cost

**The Choice is Yours!**



AVAILABILITY



TIER:	<b>BEST</b>	<b>BETTER</b>	<b>GOOD</b>	<b>GOOD</b>
TRADENAME:	<b>NORTON NORZON PLUS</b>	<b>NORTON BLUEFIRE</b>	<b>NORTON GEMINI</b>	<b>NORTON METAL</b>
SHAPE:	Type 27/42	Type 27/42	Type 27/42	Type 27/42
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
<b>.040, .045, 1/16" – RightCut Cut-off – Type 27/42</b>						
4 x .045 x 5/8	15,280	25			66252842180	07660705249
4-1/2 x .040 x 5/8-11	13,580	10		66252843227		
4-1/2 x .045 x 5/8-11	13,580	10	66252842006	66252843223	66252842025	
	13,580	10			66252841913 <b>INOX/SS</b>	
4-1/2 x .045 x 7/8	13,580	25	66252843320	66252843219	66252842026	66252843604
	13,580	25			66252841912 <b>INOX/SS</b>	
	13,580	25*			66252842161 <b>5-Pk</b>	
	13,580	250			66253370065 <b>250-Pk</b>	
5 x .040 x 5/8-11	12,225	10		66252843228	66252841939	
5 x .045 x 5/8-11	12,225	10			66252841915 <b>INOX/SS</b>	
	12,225	10			66252842036	66252843849
5 x .045 x 7/8	12,225	25	66252843329	66252843220	66252841914 <b>INOX/SS</b>	
	12,225	25			66252842171 <b>5-Pk</b>	
	12,225	25*			66253370066 <b>250-Pk</b>	
	12,225	250			66252830587	
6 x .045 x 5/8-11	10,185	10	66252842007		66252841917 <b>INOX/SS</b>	
	10,185	10			66252842202	66252842015
6 x .045 x 7/8	10,185	25	66252842009	66252843221	66252841916 <b>INOX/SS</b>	
	10,185	25			66252842176 <b>5-Pk</b>	
	10,185	25*			66253370067 <b>250-Pk</b>	
	10,185	250			66252841919 <b>INOX/SS</b>	
7 x .045 x 5/8-11	8,600	10			66252912626	
7 x .045 x 7/8	8,600	20			66252841918 <b>INOX/SS</b>	
	8,600	20				07660705251
7 x 1/16 x 7/8	8,600	10				
9 x 1/16 x 5/8-11	6,600	10			66253019115	

RIGHTCUT WHEELS ARE TO BE USED FOR CUTTING ONLY.

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
<b>3/32", .125" – Cut-off – Type 27/42</b>						
4 x .125 x 3/8	15,280	25	66252842001			
4-1/2 x 3/32 x 5/8-11	13,580	10			66252841903	
	13,580	10			66252842027 <b>INOX/SS</b>	
4-1/2 x 3/32 x 7/8	13,580	25			66252841940	
	13,580	25			66252842028 <b>INOX/SS</b>	
	13,580	25			66252843582 <b>1-2-3</b>	
4-1/2 x .125 x 5/8-11	13,580	10	66252843321		66252843588	
4-1/2 x .125 x 7/8	13,580	25	66252843322		66252843589	
5 x 3/32 x 5/8-11	12,225	10			66252841904	
5 x 3/32 x 7/8	12,225	25			66252842037 <b>INOX/SS</b>	
	12,225	25			66252843587 <b>LL</b>	
	12,225	25			66252843583 <b>1-2-3</b>	
5 x .125 x 7/8	12,225	25			66252843595	
6 x 3/32 x 5/8-11	10,185	10			66252841905	
6 x 3/32 x 7/8	10,185	25			66252841906	
	10,185	25			66252832487 <b>INOX/SS</b>	
6 x .125 x 5/8-11	10,185	10			66252841192	
6 x .125 x 7/8	10,185	25			66252842021	
7 x 3/32 x 5/8-11	8,600	10			66252841907	
7 x 3/32 x 7/8	8,600	20			66252841908	
	8,600	20			66252914638 <b>INOX/SS</b>	
7 x .125 x 5/8-11	8,600	10	66252912625			
7 x .125 x 7/8	8,600	20	66252912624		66252900619	
9 x 3/32 x 5/8-11	6,600	10		66252842378		
9 x 3/32 x 7/8	6,600	20		66252842343		

THESE WHEELS ARE TO BE USED FOR CUTTING ONLY.

\* 5-WHEEL JOB PACKS; WHEELS ARE PACKED 5 WHEELS/PACK, WITH 5 JOB PACKS/CARTON. ORDER PER EACH WHEEL IN STANDARD PACKAGE QUANTITIES OF 25. ORDER IN MULTIPLES OF 25.

See .045" RightCut Wheels for Aluminum on page 17.

DEPRESSED CENTER WHEEL DESCRIPTION CODES						
<b>BLANK</b> = ALL PURPOSE	<b>FC</b> = FAST CUT	<b>HD</b> = HEAVY DUTY	<b>INOX/SS</b> = CONTAMINANT FREE	<b>LL</b> = LONG LIFE	<b>1-2-3</b> = CUTTING/NOTCHING/GRINDING	
<b>■</b> = ALUMINUM	<b>■</b> = FOUNDRY	<b>■</b> = MASONRY	<b>■</b> = STAINLESS	<b>■</b> = STEEL / METAL		



AVAILABILITY



TIER:	<b>BEST</b>	<b>BETTER</b>	<b>GOOD</b>	<b>GOOD</b>
TRADENAME:	<b>NORTON NORZON PLUS</b>	<b>NORTON BLUEFIRE</b>	<b>NORTON GEMINI</b>	<b>NORTON METAL</b>
SHAPE:	Type 27/42	Type 27/42	Type 27/42	Type 27/42
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
<b>1/8", 5/32" – Pipe Notching – Type 27</b>						
4-1/2 x 1/8 x 5/8-11	13,580	10			66253370272	<b>XXL</b>
4-1/2 x 1/8 x 7/8	13,580	25			66253370271	<b>XXL</b>
5 x 1/8 x 5/8-11	12,225	10			66253370273	<b>XXL</b>
5 x 1/8 x 7/8	13,580	25			66252842038	<b>XXL</b>
6 x 1/8 x 5/8-11	10,185	10			66252841193	<b>XXL</b>
6 x 1/8 x 7/8	10,185	20			66252835580	<b>XXL</b>
7 x 1/8 x 5/8-11	8,600	10	66252939184		66253370274	<b>XXL</b>
7 x 1/8 x 7/8	8,600	20			66252835581	<b>XXL</b>
9 x 1/8 x 5/8-11	6,600	10	66253049066		66253370275	<b>XXL</b>
9 x 1/8 x 7/8	6,600	20			66253370276	<b>XXL</b>

PIPE NOTCHERS ARE TO BE USED FOR CUTTING/NOTCHING ONLY.

AVAILABILITY



TIER:	<b>BEST</b>	<b>BETTER</b>	<b>GOOD</b>	<b>GOOD</b>
TRADENAME:	<b>NORTON NORZON PLUS</b>	<b>NORTON BLUEFIRE</b>	<b>NORTON GEMINI</b>	<b>NORTON METAL</b>
SHAPE:	Type 27 and Type 28	Type 27 and Type 28	Type 27 and Type 28	Type 27
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
<b>1/8" – Cutting / Notching / Light Grinding – Type 27</b>						
3 x 1/8 x 3/8	18,000	25	66252842177			
4 x 1/8 x 3/8	15,280	25	66252842004	66252843178	66252842016	
4 x 1/8 x 5/8	15,280	25	66252842005	66252843176	66252842017	66252842014
4-1/2 x 1/8 x 5/8-11	13,580	10	66252843323	66252843211	66252843590	66252843609
	13,580	10		66252843191 <b>FC/INOX/SS</b>		
4-1/2 x 1/8 x 7/8	13,580	10 <b>V</b>			66252842166 <b>2-Pk</b>	
	13,580	25	66252843324	66252843212	66252843591	66252843611
	13,580	10 <b>V</b>		66252843190 <b>FC/INOX/SS</b>		
					66252842167 <b>2-Pk</b>	
5 x 1/8 x 5/8-11	12,225	10	66252843330	66252843215		
	12,225	10		66252843195 <b>FC/INOX/SS</b>		66252843615
5 x 1/8 x 7/8	12,225	25	66252843331	66252843216	66252843596	
	12,225	25		66252843194 <b>FC/INOX/SS</b>		66252843616
6 x 1/8 x 5/8-11	10,185	10	66252841891	66252843199 <b>FC/INOX/SS</b>	66252833965	
6 x 1/8 x 7/8	10,185	20		66252843202	66252801864	
	10,185	20		66252843198 <b>FC/INOX/SS</b>		
7 x 1/8 x 5/8-11	8,600	10	66252938855	66252843233	66252939259	07660702678
	8,600	10		66252843183 <b>FC/INOX/SS</b>		
7 x 1/8 x 7/8	8,600	20	66252938854	66252843234	66252939207	
	8,600	20		66252843182 <b>FC/INOX/SS</b>		
	8,600	25*				07660775956 <b>5-Pk</b>
9 x 1/8 x 5/8-11	6,600	10	66253048897	66252843244	66253048983	
	8,600	10		66252843187 <b>FC/INOX/SS</b>		
9 x 1/8 x 7/8	6,600	20	66253048896	66252843245	66253048994	
	6,600	20		66252843186 <b>FC/INOX/SS</b>		

\* 5-WHEEL JOB PACKS; WHEELS ARE PACKED 5 WHEELS/PACK, WITH 5 JOB PACKS/CARTON. ORDER PER EACH WHEEL IN STANDARD PACKAGE QUANTITIES OF 25. ORDER IN MULTIPLES OF 25.

**V** NEW! VENDIBLE 2-WHEEL PACKAGE. IDEAL FOR VENDING MACHINES AND SMALL JOBS. 5 PACKS/CARTON. ORDER IN MULTIPLES OF 10.



AVAILABILITY



TIER:	<b>BEST</b>	<b>BETTER</b>	<b>GOOD</b>	<b>GOOD</b>
TRADENAME:	<b>NORTON NORZON PLUS</b>	<b>NORTON BLUEFIRE</b>	<b>NORTON GEMINI</b>	<b>NORTON METAL</b>
SHAPE:	Type 27 and Type 28	Type 27 and Type 28	Type 27 and Type 28	Type 27
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
<b>1/4" - Grinding - Type 27</b>						
3 x 1/4 x 3/8	18,000	25	66252842178		66252842179	
4 x 1/4 x 3/8	15,280	25	66252842002	66252843179	66252842018	
4 x 1/4 x 5/8	15,280	25	66252842003	66252843177	66252842020 <b>FC</b>	66252842011
	15,280	25			66252842019	
4-1/2 x 3/16 x 7/8	13,580	25	66252843325		66252843592	
4-1/2 x 1/4 x 5/8-11	13,580	10	66252843326	66252843213	66252843593	66252843605
	13,580	10	66252843327	66252843193 <b>FC/INOX/SS</b>	66252843585 <b>FC</b>	
	13,580	10	66252843796 <b>FC</b>		66252842032 <b>INOX/SS</b>	
	13,580	10			66252843785 <b>XXL</b>	
	13,580	40				66252819559
	13,580	10 <b>V</b>	66252829541 2-Pk	66252842162 2-Pk	66252842163 2-Pk	
4-1/2 x 1/4 x 7/8	13,580	25	66252843328	66252843214	66252843594	66252843607
	13,580	25	66252843795 <b>FC</b>	66252843192 <b>FC/INOX/SS</b>	66252843584 <b>FC</b>	
	13,580	25			66252842033 <b>INOX/SS</b>	
	13,580	25			66252843784 <b>XXL</b>	
	13,580	50				66252836796
	13,580	10 <b>V</b>	66252829540 2-Pk	66252842164 2-Pk	66252842165 2-Pk	
5 x 1/4 x 5/8-11	12,225	10	66252843332	66252843217	66252843597	66252843613
	12,225	10	66252843333 <b>LL</b>	66252843197 <b>FC/INOX/SS</b>	66252843787 <b>XXL</b>	
	12,225	10	66252843798 <b>FC</b>			
5 x 1/4 x 7/8	12,225	25	66252843334	66252843218	66252843598	66252843614
	12,225	25	66252843797 <b>FC</b>	66252843196 <b>FC/INOX/SS</b>	66252843586 <b>FC</b>	
	12,225	25			66252842040 <b>INOX/SS</b>	
	12,225	25			66252843786 <b>XXL</b>	
	12,225	10 <b>V</b>			66252842172 2-Pk	
6 x 1/4 x 5/8-11	10,185	10	66252841920	66252843224	66252833290	
	10,185	10	66252843800 <b>FC</b>	66252843201 <b>FC/INOX/SS</b>	66252843789 <b>XXL</b>	
6 x 1/4 x 7/8	10,185	20	66252809376	66252843203	66252801865	
	10,185	20	66252843799 <b>FC</b>	66252843200 <b>FC/INOX/SS</b>	66252843788 <b>XXL</b>	
7 x 1/4 x 5/8-11	8,600	10	66252917881	66252843235	66252940147 <b>FC</b>	66252912633
	8,600	10	66252835578 <b>LL</b>	66252843185 <b>FC/INOX/SS</b>	66252940148 <b>LL</b>	
	8,600	10	66252843802 <b>FC</b>		66252843791 <b>XXL</b>	
	8,600	25*				07660775940 5-Pk
7 x 1/4 x 7/8	8,600	20	66252917880	66252843236	66252940099 <b>FC</b>	
	8,600	20	66252843801 <b>FC</b>	66252843184 <b>FC/INOX/SS</b>	66252940098 <b>LL</b>	
	8,600	20			66252843790 <b>XXL</b>	
	8,600	25*				07660775936 5-Pk
9 x 1/4 x 5/8-11	6,600	10	66253021634	66252843246	66253049105 <b>FC</b>	
	6,600	10	66252830728 <b>LL</b>	66252843189 <b>FC/INOX/SS</b>	66253049104 <b>LL</b>	
	6,600	10	66252843804 <b>FC</b>		66252843793 <b>XXL</b>	
	6,600	25*				07660775938 5-Pk
9 x 1/4 x 7/8	6,600	20	66253021633	66252843247	66253049077 <b>FC</b>	
	6,600	20	66252843803 <b>FC</b>	66252843188 <b>FC/INOX/SS</b>	66253048991 <b>LL</b>	
	6,600	20			66252843792 <b>XXL</b>	

\* 5-WHEEL JOB PACKS; WHEELS ARE PACKED 5 WHEELS/PACK. WITH 5 JOB PACKS/CARTON. ORDER PER EACH WHEEL IN STANDARD PACKAGE QUANTITIES OF 25. ORDER IN MULTIPLES OF 25.  
**V** NEW! VENDIBLE 2-WHEEL PACKAGE. IDEAL FOR VENDING MACHINES AND SMALL JOBS. 5 PACKS/CARTON. ORDER IN MULTIPLES OF 10.

DEPRESSED CENTER WHEEL DESCRIPTION CODES

<b>BLANK</b> = ALL PURPOSE	<b>FC</b> = FAST CUT	<b>HD</b> = HEAVY DUTY	<b>INOX/SS</b> = CONTAMINANT FREE	<b>LL</b> = LONG LIFE	<b>1-2-3</b> = CUTTING/NOTCHING/GRINDING
<b>■</b> = ALUMINUM	<b>■</b> = FOUNDRY	<b>■</b> = MASONRY	<b>■</b> = STAINLESS	<b>■</b> = STEEL / METAL	





AVAILABILITY

		<b>BEST</b>	<b>BEST</b>	<b>BETTER</b>	<b>GOOD</b>
TIER:					
TRADENAME:	<b>NORTON NORZON PLUS</b>	<b>NORTON DIALAST</b>	<b>NORTON BLUEFIRE</b>	<b>NORTON GEMINI</b>	
SHAPE:	Type 28	Type 29 and Reversible	Type 28	Type 28	
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Diamond	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	
MATERIAL:	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	<b>STAINLESS</b> <b>STEEL/METAL</b>	
SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #
<b>1/4" – Grinding – Type 28 Saucer</b>					
7 x 1/4 x 5/8-11	8,600	10	66252905369	66252843229	66252940149
	8,600	10	66252844345 <b>FC</b>		
7 x 1/4 x 7/8	8,600	20	66252905368		66252940095
9 x 1/4 x 5/8-11	6,600	10	66253006335	66252843237	66253049106
	6,600	10	66252844346 <b>FC</b>		
9 x 1/4 x 7/8	6,600	20	66253370137 <b>FC</b>		66253049081
<b>Light Grinding – Type 29</b>					
4-1/2 x 5/8-11	13,600	1	66253370009		
5 x 5/8-11	12,225	1	66253370010		
6 x 5/8-11	10,200	1	66253370011		
7 x 5/8-11	8,600	1	66253370012		
9 x 5/8-11	6,600	1	66253370013		
<b>1/4" – Grinding – Reversible Grinding Disc</b>					
4-1/2 x 1/4 x 5/8-11	13,600	1	66253370019		
7 x 1/4 x 5/8-11	8,600	1	66253370020		

AVAILABILITY

		<b>BEST</b>	<b>BEST</b>	<b>BEST</b>	<b>BETTER</b>	<b>GOOD</b>
TIER:						
TRADENAME:	<b>NORTON NORZON PLUS</b>	<b>NORTON NORZON III</b>	<b>NORTON DIALAST</b>	<b>NORTON BLUEFIRE</b>	<b>NORTON FOUNDRY X</b>	
SHAPE:	Type 27	Type 27	Type 29	Type 27	Type 27	
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Ceramic Alumina/ Zirconia Alumina	Diamond	Zirconia Alumina/ Silicon Carbide	Aluminum Oxide	
MATERIAL:	<b>FOUNDRY</b>	<b>FOUNDRY</b>	<b>FOUNDRY</b>	<b>FOUNDRY</b>	<b>FOUNDRY</b>	
SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
<b>.140", 1/8", 1/4", – Cutting / Notching / Grinding – Type 27 and Type 29</b>						
4 x 1/4 x 3/8	15,280	25			66252843181	
4 x 1/4 x 5/8	15,280	25			66252843180	
4-1/2 x 1/8 x 5/8-11	13,580	10			66252843206	
4-1/2 x 1/8 x 7/8	13,580	25			66252843204	
4-1/2 x 1/4 x 5/8-11	13,580	10			66252843207	
4-1/2 x 1/4 x 7/8	13,580	25			66252843205	
7 x .140 x 5/8-11	8,600	1		66253370014		
7 x 1/8 x 5/8-11	8,600	10			66252843232	
7 x 1/8 x 7/8	8,600	20			66252915526	
7 x 1/4 x 5/8-11	8,600	10			66252843231	
7 x 1/4 x 7/8	8,600	20			66252843230	
9 x .140 x 5/8-11	6,600	1		66253370015		
9 x 1/8 x 5/8-11	6,600	10			66252843240	
9 x 1/8 x 7/8	6,600	20			66252843238	
9 x 1/4 x 5/8-11	6,600	10	66253007014		66252843241	
	6,600	10			66252843261 <b>HD</b>	
9 x 1/4 x 7/8	6,600	20	66253007013	66253049069	66252843239	66252842776
	6,600	20			66252843260 <b>HD</b>	

DEPRESSED CENTER WHEEL DESCRIPTION CODES

<b>BLANK</b> = ALL PURPOSE	<b>FC</b> = FAST CUT	<b>HD</b> = HEAVY DUTY	<b>INOX/SS</b> = CONTAMINANT FREE	<b>LL</b> = LONG LIFE	<b>1-2-3</b> = CUTTING/NOTCHING/GRINDING
= ALUMINUM	= FOUNDRY	= MASONRY	= STAINLESS	= STEEL / METAL	



AVAILABILITY



TIER: **GOOD**  
 TRADENAME: **NORTON GEMINI**  
 SHAPE: Type 27  
 ABRASIVE: Aluminum Oxide  
 MATERIAL: ALUMINUM

SIZE (D x T x H)	MAX. RPM	STD. PKG.	GRIT	PART #
<b>1/8", 1/4" - Cutting / Grinding / Blending - Type 27</b>				
4-1/2 x .045 x 7/8	13,580	25	36	66252841909
4-1/2 x 1/8 x 5/8-11	13,580	10	46	66252842029
4-1/2 x 1/8 x 7/8	13,580	25	46	66252842030
4-1/2 x 1/4 x 5/8-11	13,580	10	46	66252842031
4-1/2 x 1/4 x 7/8	13,580	25	46	66252842034
5 x .045 x 7/8	12,225	25	36	66252841910
5 x 1/4 x 7/8	12,225	25	46	66252842039
6 x .045 x 7/8	10,185	25	36	66252841911
7 x 1/4 x 5/8-11	8,600	10	24	66252940514
	8,600	10	46	66252940515
7 x 1/4 x 7/8	8,600	20	24	66252940516
9 x 1/4 x 5/8-11	6,600	10	24	66253049045

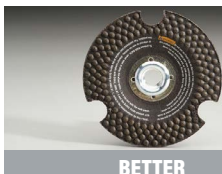
AVAILABILITY



TIER: **GOOD**  
 TRADENAME: **NORTON MASONRY**  
 SHAPE: Type 27  
 ABRASIVE: Silicon Carbide  
 MATERIAL: MASONRY

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #
<b>1/8", 1/4" - Cutting / Grinding - Type 27</b>			
4 x 1/8 x 5/8	15,280A	25	66252842013
4 x 1/4 x 5/8	15,280	25	66252842010
4-1/2 x 1/8 x 7/8	13,580	25	66252843601
4-1/2 x 1/4 x 5/8-11	13,580	10	66252843599
4-1/2 x 1/4 x 7/8	13,580	25	66252843600
5 x 1/4 x 7/8	12,225	25	66252843602
7 x 1/4 x 5/8-11	8,600	5	07660775942
9 x 1/4 x 5/8-11	6,600	5	07660775937

AVAILABILITY



TIER: **BETTER**  
 TRADENAME: **NORTON AVOS GEMINI**  
 SHAPE: Type 29  
 ABRASIVE: Aluminum Oxide  
 MATERIAL: ALUMINUM



TIER: **GOOD**  
 TRADENAME: **NORTON GEMINI FLEXIBLE**  
 SHAPE: Type 27  
 ABRASIVE: Aluminum Oxide  
 MATERIAL: ALUMINUM



TIER: **GOOD**  
 TRADENAME: **NORTON GEMINI FLEXIBLE**  
 SHAPE: Type 29  
 ABRASIVE: Aluminum Oxide  
 MATERIAL: ALUMINUM

SIZE (D x T x H)	MAX. RPM	STD. PKG.	GRIT	PART #	PART #	PART #
<b>1/8", 1/4" Flexible - Blending - Type 27 and 29</b>						
2 x 1/8 x 3/8	30,560	25	60		66252835632*	
	30,560	25	80		66252835633*	
4 x 1/8 x 5/8	15,280	20	36		66243529721#	
	15,280	20	60		66243529722#	
4-1/2 x 1/8 x 5/8-11	12,000	10	36	66252842208		66252842203
4-1/2 x 1/8 x 7/8	12,000	25	36	66252842209	66252830424#	66252842204
	12,000	25	46	66252842210		
	12,000	25	60	66252842211	66252830425#	
5 x 1/8 x 7/8	12,225	25	36	66252842212		66252842205
7 x 1/8 x 5/8-11	8,600	10	36		66252939024	66252917052
7 x 1/8 x 7/8	8,600	20	36		66252939028#	66252917051

\*5 WHEELS PER DISPLAY PACK; 5 DISPLAY PACKS PER STANDARD PACKAGE.

# THESE WHEELS ARE PACKED 20 PER BOX, AND MUST BE USED WITH A BACK PLATE. TWO BACK PLATES ARE INCLUDED IN EACH BOX.

DEPRESSED CENTER WHEEL DESCRIPTION CODES

BLANK = ALL PURPOSE FC = FAST CUT HD = HEAVY DUTY INOX/SS = CONTAMINANT FREE LL = LONG LIFE 1-2-3 = CUTTING/NOTCHING/GRINDING  
 ■ = ALUMINUM ■ = FOUNDRY ■ = MASONRY ■ = STAINLESS ■ = STEEL / METAL