




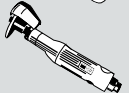


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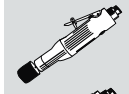

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DEPRESSED CENTER WHEELS

MACHINE USED



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		
TYPE 27 	Type 27 wheels are essentially straight wheels that have a "depressed center/raised hub". 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		■
TYPE 28 	Type 28 wheels are constructed with a downward angle built into the grinding section to facilitate a flatter grinding angle. 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		■
TYPE 29 	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. 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		■

DEPRESSED CENTER WHEELS

MACHINE USED



MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
Cutting			
Mild Carbon / High Tensile Steel	Norton NorZon Plus	Norton BlueFire	Norton Metal
Stainless Steel / Alloys	Norton NorZon Plus	Norton BlueFire FC/INOX/SS	Norton Gemini INOX/SS
Contaminate Free		Norton BlueFire FC/INOX/SS	Norton Gemini INOX/SS
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
Notching			
Mild Carbon / High Tensile Steel	Norton NorZon Plus	Norton BlueFire	Norton Metal
Stainless Steel / Alloys	Norton NorZon Plus	Norton BlueFire FC/INOX/SS	Norton Gemini INOX/SS
Contaminate Free		Norton BlueFire FC/INOX/SS	Norton Gemini INOX/SS
Cast Iron	Norton NorZon Plus	Norton BlueFire	Norton Gemini
Grinding			
Mild Carbon / High Tensile Steel	Norton NorZon Plus	Norton BlueFire	Norton Metal
Stainless Steel / Alloys	Norton NorZon Plus	Norton BlueFire FC/INOX/SS	Norton Gemini INOX/SS
Contaminate Free		Norton BlueFire FC/INOX/SS	Norton Gemini INOX/SS
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
Blending			
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

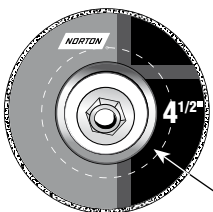
TYPICAL STEEL, STAINLESS STEEL, CAST IRON PRODUCTS: ANGLE IRON, BAR STOCK, DUCTILE PIPE, CHANNEL IRON, DECKING, REBAR, I-BEAMS, RAIL STEEL, STUDS, TUBING, AND WELDS

HOW TO PICK THE RIGHT BOND TYPE

Standard	Unmarked	Where an excellent blend of cut rate and life is needed
Fast Cut	FC	Where fast stock removal is needed, or the application only allows for low-pressure or under-horsepowered grinders
Long Life	LL	Where durability is needed due to severe application, and when horsepower of the grinder allows for heavy pressure
Contaminate Free	INOX/SS	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.

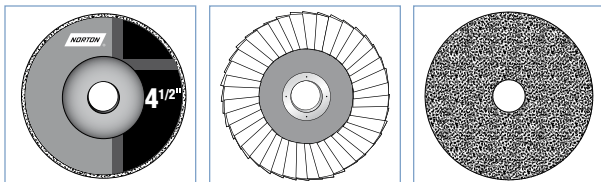


Mini-Mount Hub

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

DEPRESSED CENTER WHEELS

MACHINE USED



CROSS REFERENCE GUIDES

TYPE 27/42 RIGHTCUT – .040" - 1/16"

TOTAL PERFORMANCE

INITIAL PRICE

SPECIALTY

NORTON	BEST		GOOD			GOOD	
	NorZon Plus	BlueFire	Gemini INOX/SS	Gemini Long Life	Gemini	Metal	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"

TOTAL PERFORMANCE

INITIAL PRICE

SPECIALTY

NORTON	BEST		BETTER			GOOD				GOOD	
	NorZon Plus	NorZon Plus Long Life	BlueFire FC/INOX/SS	BlueFire	BlueFire Foundry	Gemini	Gemini Fast Cut	Gemini INOX/SS	Metal	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

DEPRESSED CENTER WHEELS

MACHINE USED



AVAILABILITY



TIER:	BEST	BETTER	GOOD	GOOD
TRADENAME:	NORTON NORZON PLUS	NORTON BLUEFIRE	NORTON GEMINI	NORTON METAL
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:	STAINLESS	STAINLESS	STAINLESS	STAINLESS
	STEEL/METAL	STEEL/METAL	STEEL/METAL	STEEL/METAL

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
1/4" - Grinding - Type 27						
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 FC	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 FC/INOX/SS	66252843585 FC	
	13,580	10	66252843796 FC		66252842032 INOX/SS	
	13,580	10			66252843785 XXL	66252819559
	13,580	40				
	13,580	10 V	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 FC	66252843192 FC/INOX/SS	66252843584 FC	
	13,580	25			66252842033 INOX/SS	
	13,580	25			66252843784 XXL	66252836796
	13,580	50				
	13,580	10 V	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 LL	66252843197 FC/INOX/SS	66252843787 XXL	
	12,225	10	66252843798 FC			
5 x 1/4 x 7/8	12,225	25	66252843334	66252843218	66252843598	66252843614
	12,225	25	66252843797 FC	66252843196 FC/INOX/SS	66252843586 FC	
	12,225	25			66252842040 INOX/SS	
	12,225	25			66252843786 XXL	
	12,225	10 V			66252842172 2-Pk	
6 x 1/4 x 5/8-11	10,185	10	66252841920	66252843224	66252832390	
	10,185	10	66252843800 FC	66252843201 FC/INOX/SS	66252843789 XXL	
6 x 1/4 x 7/8	10,185	20	66252809376	66252843203	66252801865	
	10,185	20	66252843799 FC	66252843200 FC/INOX/SS	66252843788 XXL	
7 x 1/4 x 5/8-11	8,600	10	66252917881	66252843235	66252940147 FC	66252912633
	8,600	10	66252835578 LL	66252843185 FC/INOX/SS	66252940148 LL	
	8,600	10	66252843802 FC		66252843791 XXL	
	8,600	25*				07660775940 5-Pk
7 x 1/4 x 7/8	8,600	20	66252917880	66252843236	66252940099 FC	
	8,600	20	66252843801 FC	66252843184 FC/INOX/SS	66252940098 LL	
	8,600	20			66252843790 XXL	
	8,600	25*				07660775936 5-Pk
9 x 1/4 x 5/8-11	6,600	10	66253021634	66252843246	66253049105 FC	
	6,600	10	66252830728 LL	66252843189 FC/INOX/SS	66253049104 LL	
	6,600	10	66252843804 FC		66252843793 XXL	
	6,600	25*				07660775938 5-Pk
9 x 1/4 x 7/8	6,600	20	66253021633	66252843247	66253049077 FC	
	6,600	20	66252843803 FC	66252843188 FC/INOX/SS	66253048991 LL	
	6,600	20			66252843792 XXL	

* 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 MACHINGS AND SMALL JOBS. 5 PACKS/CARTON. ORDER IN MULTIPLES OF 10.

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**