

# DEPRESSED CENTER WHEELS

Norton Company's depressed center wheels are the industry's most advanced line of performance and value products for weld and flame cut grinding, pipe notching and steel and non-steel metal fabrication applications.

## TYPICAL INDUSTRIES AND APPLICATIONS

- Storage tank and general metal fabrication
- Petrochemical maintenance
- All weld grinding
- Shipbuilding
- Foundry – notching and removing gates and risers
- Pipeline - root pass grinding, pipe bevelling and repair



## NORZON THE ABSOLUTE FORCE WHEELS

The world's two most advanced abrasives, NorZon (zirconia alumina) and Norton SG (seeded gel-ceramic aluminum oxide) have been combined to produce NORZON The Absolute Force. This patented performance product outperforms all wheels available today. These superior wheels let you cut faster and smoother all the way to the hub.

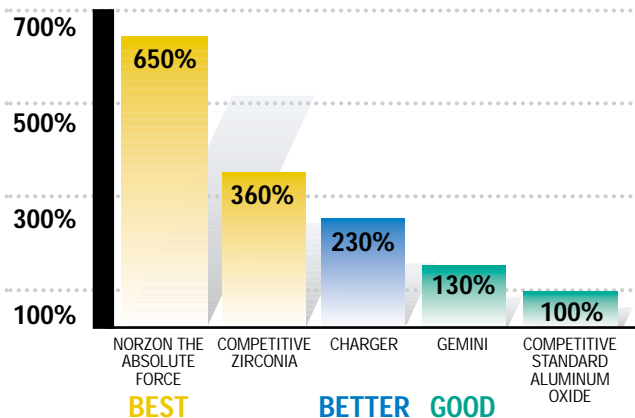


★ Made in U.S.A.

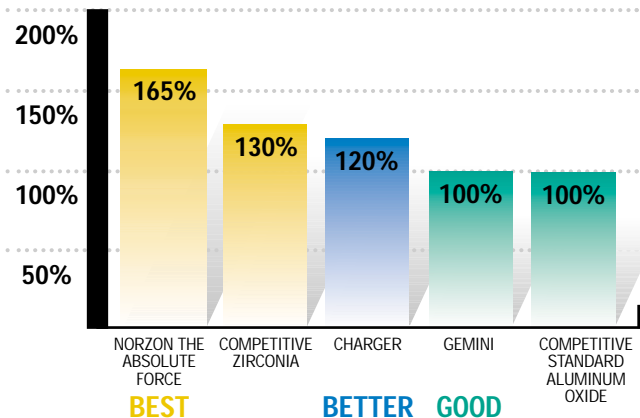
BEST NORZON The Absolute Force Depressed Center Wheels	
FEATURES	BENEFITS
<ul style="list-style-type: none"> <li>• Patented combination of NorZon/Norton SG grain</li> <li>• An advanced bond system</li> <li>• Exceptional balance</li> <li>• Unique, patented mini mount for 4-1/2" wheels</li> </ul>	<ul style="list-style-type: none"> <li>• 50% better cut rate advantage over aluminum oxide</li> <li>• Up to 9X the life of aluminum oxide and up to 2X the life of competitive zirconia alumina</li> <li>• Excellent performance on all grinding jobs from gray iron to exotic alloys and stainless steel</li> <li>• Free cutting, easy on the operator and machinery</li> <li>• Minimal vibration; no workpiece "bouncing"</li> <li>• Less operator fatigue</li> <li>• Up to 30% more wheel life because the hub covers just a small surface area, providing maximum grinding area exposure and usage</li> </ul>

## Abrasive Life and Cut Rate Relative Performance Charts

### RELATIVE WHEEL LIFE CHART



### RELATIVE WHEEL CUT RATE CHART



# DEPRESSED CENTER WHEELS



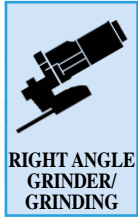
## BLENDING / FINISHING WHEELS



### GEMINI FLEXIBLE WHEELS

These newly-formulated Type 27 Gemini Flexible wheels are specifically designed for blending and finishing a wide variety of materials.

GOOD	Gemini Flexible Wheels	IMPROVED
<b>FEATURES</b>		<b>BENEFITS</b>
<ul style="list-style-type: none"> <li>• Improved formulation</li> </ul>		<ul style="list-style-type: none"> <li>• Better blending, finishing and polishing of stainless steel, structural steel, cast iron welds and burrs</li> <li>• Cool cutting; leaves no burn marks</li> <li>• Meets nuclear industry standards</li> </ul>
<ul style="list-style-type: none"> <li>• Flexible</li> </ul>		<ul style="list-style-type: none"> <li>• Excellent control of finish quality and removal rate in light stock removal applications</li> </ul>
<ul style="list-style-type: none"> <li>• Available in 36 grit</li> </ul>		<ul style="list-style-type: none"> <li>• Ideal for light stock removal</li> </ul>
<ul style="list-style-type: none"> <li>• Available in 60 grit</li> </ul>		<ul style="list-style-type: none"> <li>• Designed for finishing applications</li> </ul>



### COTTON FIBER BFR2 WHEELS

The unique cotton fiber and abrasive blend found in Type 27 BFR2 wheels make these some of the most versatile metal removal and finishing grinding wheels available.

GOOD	Cotton Fiber BFR2 Wheels
<b>FEATURES</b>	
<ul style="list-style-type: none"> <li>• Unique combination of cotton fibers, abrasive and flexible bond material</li> </ul>	
<ul style="list-style-type: none"> <li>• Superior balance</li> </ul>	
<ul style="list-style-type: none"> <li>• Available in 24 and 36 grit</li> </ul>	
<b>BENEFITS</b>	
<ul style="list-style-type: none"> <li>• Very versatile; ideal for grinding and finishing bronze, aluminum and thin sheet metal</li> <li>• Cushion-like action for uniform finishes</li> </ul>	
<ul style="list-style-type: none"> <li>• No vibration or chatter marks</li> </ul>	
<ul style="list-style-type: none"> <li>• 24 grit - ideal for light stock removal/blending</li> <li>• Use 36 grit for finishing</li> </ul>	

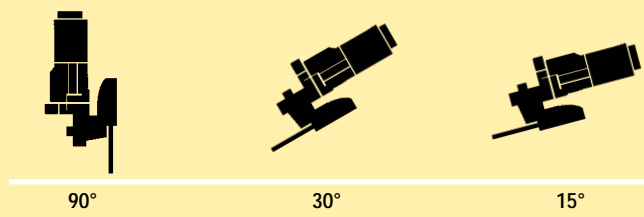
DEPRESSED CENTER WHEELS

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## TechTips

- For maximum performance, run the grinder at the highest possible speed marked on the wheel.
- Hold your right angle grinder at a:
  - 90° angle with 1/16", 3/32" .125" and 1/8" thick discs
  - 30° angle with 1/8" and 1/4" thick grinding discs
  - 15° angle with saucers and Type 29 wheels

It is the user's responsibility to refer to and comply with ANSI B7.1



90°


30°

15°

# DEPRESSED CENTER WHEELS



## DEPRESSED CENTER WHEELS




SIZE D X T X H	MAX. RPM	STD. PKG.	BEST		BETTER		GOOD	
			NORZON THE ABSOLUTE FORCE SPEC.	UPC NO.	CHARGER UPC NO.	SPEC.	GEMINI/GLOBAL UPC NO.	
<b>1/4" METAL/STEEL GRINDING - TYPE 27</b> 								
3 X 3/16 X 3/8	18,000	20					GEMINI	66243528785
3 X 1/4 X 3/8	18,000	20	LONG LIFE	66243528809			GEMINI	66243528855
4 X 3/16 X 3/8	15,280	20					GEMINI	66243529749
4 X 3/16 X 5/8	15,280	20					GEMINI	66243529729
4 X 1/4 X 3/8	15,280	20	LONG LIFE	66243529886	66243529899		GEMINI	66243529748
4 X 1/4 X 5/8	15,280	20	FAST CUT LONG LIFE	66243510625 66243529887	66243529852		GEMINI FAST CUT GEMINI GLOBAL A24	66243519884 66243530620 66243522982
4-1/2 X 3/16 X 7/8	13,580	20	LONG LIFE	66252830446			GEMINI	66252830575
4-1/2 X 1/4 X 5/8-11	13,580	20	FAST CUT LONG LIFE	66252809700 66252830449	66252829855		GEMINI FAST CUT GEMINI GLOBAL A24	66252817084 66252830432 66252819559
4-1/2 X 1/4 X 7/8	13,580	20	FAST CUT LONG LIFE	66252809698 66252830448	66252829856		GEMINI FAST CUT GEMINI GLOBAL A24	66252830612 66252830611 66252819558
5 X 1/4 X 5/8-11	12,225	20			66252829859		GLOBAL A24	66252819563
5 X 1/4 X 7/8	12,225	20	FAST CUT LONG LIFE	66252809699 66252830791	66252829861		GEMINI FAST CUT GEMINI GLOBAL A24	66252830617 66252830615 66252819562
6 X 1/4 X 7/8	10,185	20	LONG LIFE	66252809376	66252809372		GEMINI	66252801865
7 X 1/4 X 5/8-11	8,600	10	FAST CUT LONG LIFE	66252905946 66252938899	66252929864		GEMINI FAST CUT GEMINI LONG LIFE GLOBAL A24	66252940147 66252940148 66252912633
7 X 1/4 X 7/8	8,600	20	FAST CUT LONG LIFE	66252905945 66252938898	66252929865		GEMINI FAST CUT GEMINI LONG LIFE GLOBAL A24	66252940099 66252940098 66252912632
7 X 5/16 X 7/8	8,600	20			66252914743			
9 X 1/4 X 5/8-11	6,600	10	FAST CUT LONG LIFE	66253007016 66253048921	66253029868		GEMINI FAST CUT GEMINI LONG LIFE GLOBAL A24	66253049105 66253049104 66253014752
9 X 1/4 X 7/8	6,600	20	FAST CUT LONG LIFE	66253007015 66253048898	66253029869		GEMINI FAST CUT GEMINI LONG LIFE GLOBAL A24	66253049077 66253048991 66253014750

DEPRESSED CENTER WHEELS

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## SpecCheck



WHEEL TYPE	APPLICATIONS			
1/16", 3/32" Thick Discs Type 27	Cutting only, where fast cutting and low kerf loss are desired			■
.125" Thick Discs Type 27	Cutting and cleaning root pass welds			■
1/8" Thick Discs Type 27	Cutting-off, notching and light side grinding		■	■
Fast Cut Grinding Discs Type 27	Grinding with low horsepower and electric grinders or where low pressure is used		■	
Long Life Grinding Discs Type 27	Grinding with high horsepower machines (3 hp or higher) and heavy pressure; flame cut and other severe applications		■	
Pipe Notchers Type 27	Cutting on the face of the wheel for root pass applications; cleaning weld joints or cutting out weld on pipe repair			■
Foundry Notchers Type 27	Triple reinforced for grinding steel and dirty/scale-covered castings; removing and cleaning gates and risers		■	■
Foundry Snaggers Type 27	Grinding on bottom and face of wheel; cleaning parting lines, pads and slag; smoothing weld seams		■	■
Hot Weld Grinding Discs Type 27	Use on red hot welds (800° F - 1400° F)		■	■
Saucers Type 28	Smooth, gouge-free grinding at shallow angles	■		
AVOS Type 29	Polishing and blending applications	■		