

RAISING THE BAR WITH NORTON TOROS

When cutting efficiency and quality of cuts are critical to your process, you need a solution that consistently exceeds your minimum requirements. Norton TOROS LDCO wheels have raised the bar for productivity and performance with the newest technology for large diameter cut-off applications. Our Research & Development team has optimized the three components that help deliver superior cutting performance – wheel design, bond, and abrasive blend – to create this cutting edge product.

TOROS wheels are engineered to produce high-quality parts while reducing cost through improved productivity, cut efficiency, and wheel life. The new environmentally friendly bond formulation was designed to be safer for machine operators and the environment. TOROS reinforced cut-off wheels are mechanically and thermally stable, making them ideal for a range of application temperatures, materials, and sizes.

KEY APPLICATIONS

LARGE DIAMETER CUT-OFF – COLD & WARM CUTTING

- Round Bar Diameters from 1" to 34"
- Round Corner Squares (RCS)

KEY MARKET

STEEL INDUSTRY

www.nortonabrasives.com

FEATURES AND BENEFITS

- Unique wheel design prevents side rubbing and pinching for improved cutting and longer wheel life
- Optimized bond offers superior thermal and mechanical stability
- Square wheel face profile allows for faster and more consistent cut performance
- Improved performance with up to 35% better G-Ratio over competitive wheels

SPECIFICATIONS

Diameter: 63" (1600mm)
 Thicknesses: 0.5" to 0.69" (12.7mm to 17.5mm)
 Grit: 16 to 36 grit
 Grain: Aluminum Oxide, Silicon Carbide, A/O & SiC blends, Premium grain blends
 BC20 Bond: Grades U, V, W

All Norton TOROS wheels are made-to-order and specifically formulated for your application. Our team of application engineers is available to assist in specifying the best wheel for your application and can help your engineers and operators improve and optimize your process.

Starting Specifications:

BEST Tier: 4NVS1648-WBC20J **BETTER Tier:** 57A164-WBC20J

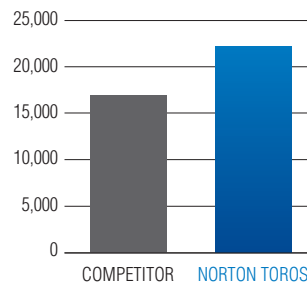


63" Diameter

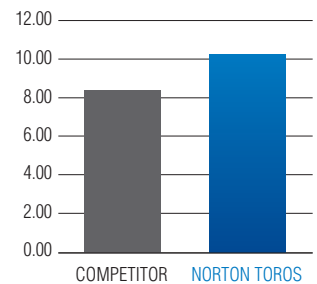
Case Study #1

APPLICATION: Large Diameter Cut-off
MATERIAL: Carbon Steel
PART SIZES: 2-3" Round bars
TEMPERATURE: 700-800°F
RESULTS: The Norton TOROS wheel showed a material removal rate improvement of 32% and a G-Ratio increase of 21%. The wheels consistently produced straight and square cuts without side rubbing or burning. The Norton solution also reduced process cost by 19%.

Square Inch Cut



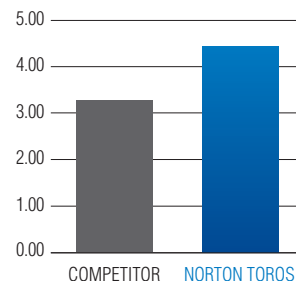
G-Ratio



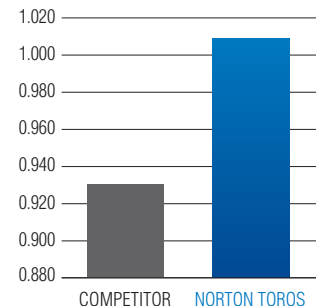
Case Study #2

APPLICATION: Large Diameter Cut-off
MATERIAL: High Nickel Alloy
PART SIZES: 18" Round bars
TEMPERATURE: Room Temperature
RESULTS: The Norton TOROS wheel showed a G-Ratio improvement of 35% and material removal rate increase of 9%. The wheel face was flat and did not have any metal build up on the face, producing virtually no burn on parts.

G-Ratio



Metal Removal Rate – MRR
(in²/sec)



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FORM #8790 REV. 07/19

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