



**CASE STUDY #1**  
Norton Toros Large Diameter  
Cut-off Wheel

APPLICATION: **ROUND BAR CUTTING** | MARKET: **INDUSTRIAL**

**THE CUSTOMER'S CHALLENGE**

A producer and distributor of premium specialty alloys required cutting of a variety of materials of varying grades. The incumbent large diameter cut-off wheel was not cutting the hard grade materials well, and the wheels would end up binding in the cut and breaking. The customer wanted to have a wheel that was versatile enough to cut materials of all levels of hardness and sizes without a wheel breakage, which could be detrimental to the machine.

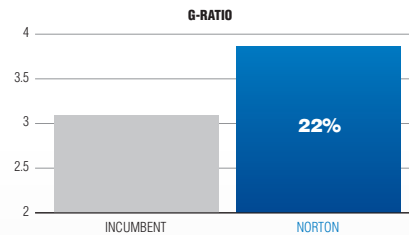
**APPLICATION INFORMATION**

*MACHINE TYPE:* 700 HP Braun  
*MATERIAL TYPE:* High Nickel Alloy

*NORTON WHEEL:* 63" x 0.65" large diameter cut-off  
*INCUMBENT WHEEL:* 63" x 0.59" large diameter cut-off

**Norton Wheel Achievements**

The Norton TOROS cut-off wheel was brought in to test against the incumbent large diameter cut-off wheel. The Norton Toros wheel was able to efficiently cut through a variety of different material grades and sizes while showing a 22% improvement in G-Ratio. Additionally, the customer did not experience any binding or wheel breakages even on the hard to cut materials. The operators were very pleased with the performance of the wheels.



**Management Assessment**

In addition to the performance boost, Norton TOROS showed an overall cost savings of 10%.

	ECONOMIC OUTPUT	
	Incumbent	Norton TOROS
TOTAL COST	\$/in <sup>2</sup> \$0.1213	\$0.1092
% SAVED (from Base)		9.9%

**FORM #8805**

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