

## CASE STUDY

Norton **IDEal-Prime**  
4" X 1" X 7/8" Wheel

### APPLICATION: ID GRINDING

#### THE CUSTOMER'S CHALLENGE

The new Norton IDEal-Prime ID grinding wheel with NQN grain was tested against a wheel with previous generation grain to determine the level of improvement in overall performance.

<i>MACHINE TYPE:</i>	Heald No. 74
<i>COOLANT:</i>	None
<i>DRESSER:</i>	Single point dressed 1/4" CT
<i>WORKPIECE:</i>	Material: D2 Dimension: Internal Diameter 12" Hardness: 62 Rc Stock removal: 0.020"

#### INCUMBENT INFORMATION

Incumbent Wheel: Previous Generation ID Wheel

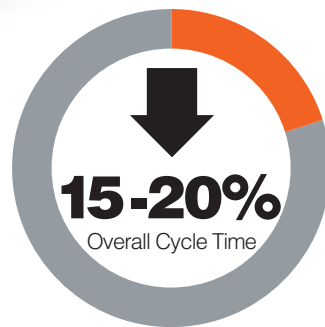
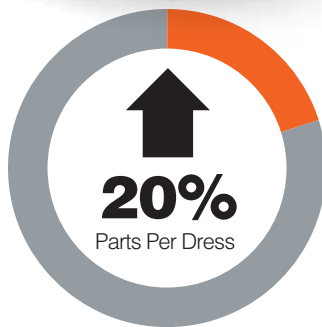
vs.

#### NORTON PRODUCT INFORMATION

IDEal-Prime Wheel: 4" x 1" x 7/8", recess side A 1-5/8" x 1/2"  
Specification: 3NQN46-IVS3  
Process Parameters: 0.0005"/pass

#### Norton Wheel Achievements

The new IDEal-Prime wheel with NQN grain resulted in a 20% increase of parts per dress over the previous generation baseline specification. This improvement in dressing time resulted in a 15-20% decrease in overall cycle time.



#### FORM #8872

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