



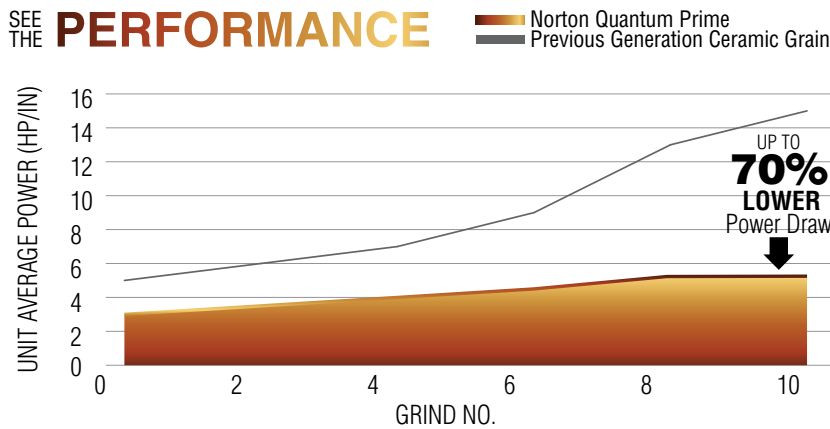
Reshaping
your
world.

OD GRINDING APPLICATIONS



PERFORMANCE REVOLUTION

IN OD GRINDING WITH
NORTON QUANTUM PRIME GRAIN



- Reduced Power Draw**
- Improved Surface Finish & Part Quality**
- More Parts Per Dress**
- 30% Longer Wheel Life**

APPLICATIONS
CENTERLESS | CYLINDRICAL | OD BEARING

www.nortonabrasives.com



TOOLING & MACHINERY, INC.

COMPLETE METALWORKING SOLUTIONS

(800) 991-4225

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ISO Certified



NORTON
SAINT-GOBAIN

QUANTUM
PRIME

OD GRINDING
QUANTUM PRIME

AVAILABILITY

PRODUCT: MADE-TO-ORDER TO YOUR EXACT REQUIREMENTS

BOND: ORGANIC & VITRIUM3

GRIT: 36 TO 150 GRIT
DEPENDING ON BOND TYPE



Dressing Product Recommendations

Stationary Tools
Upgraded premium quality diamond

Plunge Dressing
Use CVD reinforcement, tool can be custom designed for optimal wear

CNC Traverse Dressing
Upgrade to HD CVD reinforcement

Contact your Norton representative for help in selecting the correct dressing tool for your specific application.

CASE STUDY: OD GRINDING

WORKPIECE: Bearing ball track
MATERIAL: 52100 steel
HARDNESS: 62 HRC
SURFACE FINISH: 0.45µm / 0.52µm
INCUMBENT WHEEL: Ceramic wheel
NORTON WHEEL: Norton Quantum Prime
Shape and Dimensions: 610 x 35 x 203mm
Specification: 3NQNM1206-M8VS3

RESULTS



REDUCED
Grinding Time



IMPROVEMENT
In Parts Per Wheel



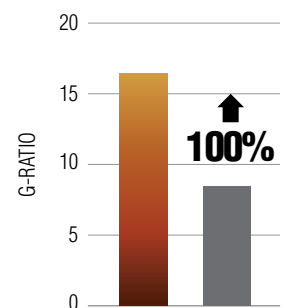
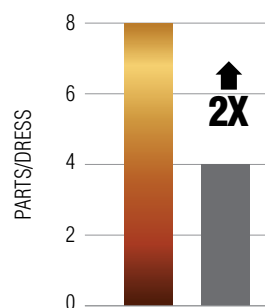
IMPROVED
SURFACE QUALITY

CASE STUDY: CENTERLESS GRINDING

WORKPIECE: Balance flow plunger
MATERIAL: A2 Tool steel
HARDNESS: 58 Rc
STOCK REMOVAL: 2.455 mm
SURFACE FINISH: 32 µm
DRESS DEPTH: 0.015 mm
INCUMBENT WHEEL: Previous generation ceramic wheel
NORTON WHEEL: Norton Quantum Prime
Shape and Dimensions: 610 x 130 x 305 mm
Specification: 3NQNM120-M6VS3

RESULTS

Legend:
■ Norton Quantum Prime
■ Previous Generation Ceramic wheel



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NO-RISK TEST

