

NORTON

WINTER

SAINT-GOBAIN

CASE STUDY

Norton Winter Paradigm
SD320-D168-P100A-1/2" Wheel

APPLICATION: OD GRINDING OF HVOF COATING ON STEEL RODS
MARKET: AEROSPACE, AUTOMOTIVE

PARADIGM

THE CUSTOMER'S CHALLENGE

A major manufacturer of aerospace and automotive components was looking to optimize their grinding process for HVOF coated parts. By evaluating the Norton Winter Paradigm wheel, they were looking to improve productivity, optimize grinding cycle time as well as improve surface finish and overall tool quality.

MATERIAL: HVOF (nickel-chromium alloy)
MACHINE: Landis Flex
COOLANT: Oil based
WHEEL SHAPE & SIZE: 1A1TSA 30" X 2" X 12"

INCUMBENT INFORMATION
 Incumbent Wheel: D120 V (vitrified diamond)

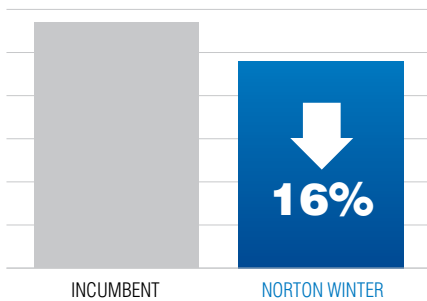
VS.

NORTON PRODUCT INFORMATION
 Paradigm Specification: SD320-D168-P100A-1/2"

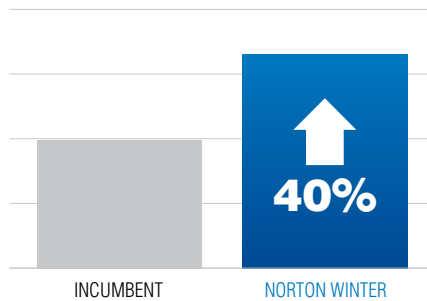
Results

The Norton Winter Paradigm wheel outperformed the incumbent specification in cycle time, parts per wheel and cost per part while also achieving improved surface finish. The customer was able to eliminate re-work, optimize grinding processes and achieve a robust and consistent process while reducing overall cost with the Paradigm wheel.

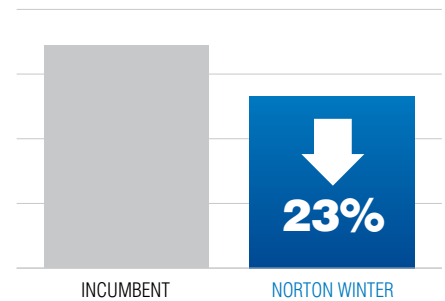
COST PER PART



WHEEL LIFE (PARTS PER WHEEL)



CYCLE TIME (MINS/PART)



FORM #8895

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