

MightyShield Σ

An all-purpose coating that protects the cutting edge

Characteristics

- Achieves long life by employing high hardness film (HV4000) with excellent heat resistance
- Supports a wide range of processing areas (HSS hobs, carbide hobs)
- Demonstrates performance in any cutting environment, dry or wet

Cutting result 1. Final gear hobbing cut

<Part Dimensions>

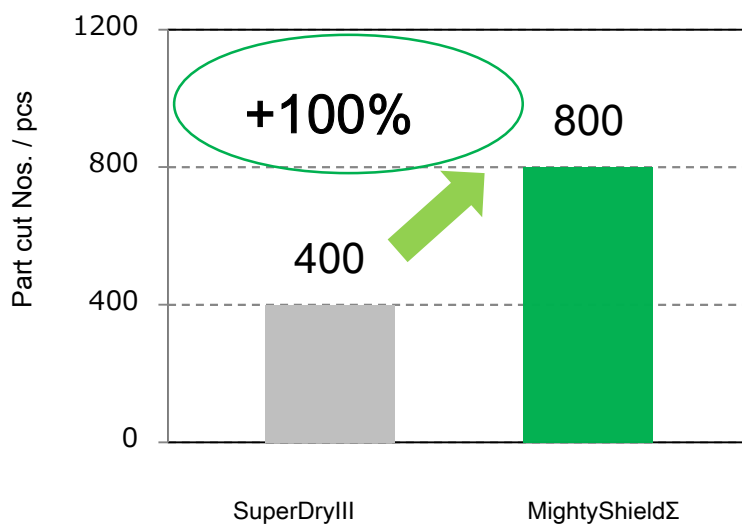
Module 3.0 PA20
NT51 HELIX 30
MATERIAL SCM420

<Hob Dimensions>

3 starts 16 flutes
Hob material MACH11 (HSS)

<Cutting Condition>

Cutting speed 170m/min
Ax. Feed 2.2mm/rev
Water soluble coolant



Cutting result 2. Counter gear hobbing cut

<Part Dimensions>

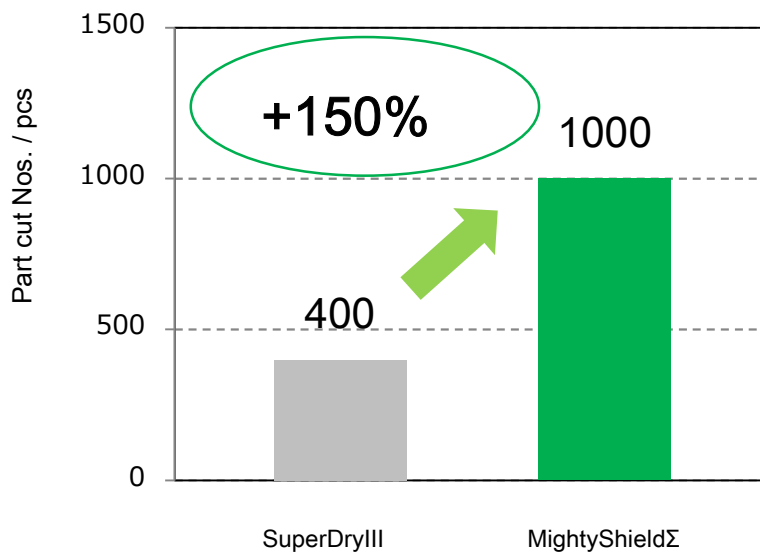
Module 2.1 PA14.5
NT50 HELIX 30
MATERIAL SCM420

<Hob Dimensions>

3 starts 16 flutes
Hob material MACH11 (HSS)

<Cutting Condition>

Cutting speed 170m/min
Ax. Feed 2.3mm/rev
Water soluble coolant



NIDEC MACHINE TOOL CORPORATION

〒520-3080 130,Roku-jizo,Ritto,Shiga,Japan

Contact: Sales Group 3, Sales Department 2, Sales Headquarters TEL+81-77-552-9766

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