

**CASE STUDY**

Norton Winter



Application **FLUTE GRINDING OF TWO FLUTE**  
Markt **TOOLS**

**THE CUSTOMER'S CHALLENGE**

A leading tool manufacturer was looking for a fluting wheel to improve their flute grinding applications and boost productivity.

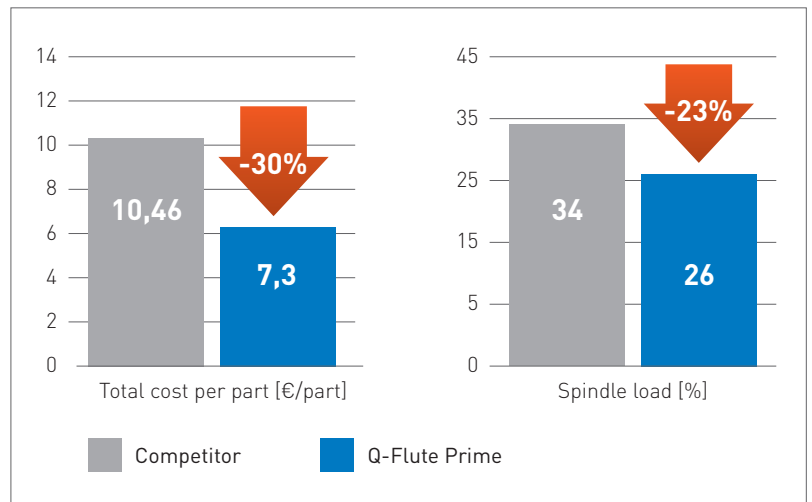
MATERIAL **Solid carbide**  
DIMENSION **Ø 25 two flute end mill**  
STOCK REMOVAL **9,25 mm per flute**  
  
MACHINE **WZS 700**  
COOLANT **Öl**  
DRESSER **Off-machine with SIC**

**COMPETITOR**  
DIMENSION **100 -15-10-20**  
SPEZIFIKATION **Standard**  
  
**NORTON**  
PRODUCT **Norton Winter Q-Flute PRIME**  
SHAPE/DIMENSION **SP1V1-100-15-10-20 20\* D54**  
WHEEL SPEED **17 M/S**  
PROCESS PARAMETERS **Ae = 9,25 mm, 1 pass,  
Vf = 30 mm/min**

**RESULTS**

- **30 % reduction of total cost per part**
- **50 % increase of Q'w max**
- **50 % feed rate increase**

Thanks to the new, outstanding free sharpening bond system, Q-Flute Prime enables a 23% reduction in spindle load despite an increased feed rate. This results in higher productivity and longer machine life.



Saint-Gobain Diamantwerkzeuge GmbH  
Schützenwall 13 - 17  
D-22844 Norderstedt  
T +49 (0) 4052 58 - 0  
F +49 (0) 4052 58 - 215  
sga-de-sa@saint-gobain.com

[www.nortonabrasives.com/de-de](http://www.nortonabrasives.com/de-de)

- [linkedin.com/company/norton-abrasives-dach](https://www.linkedin.com/company/norton-abrasives-dach)
- [youtube.com/NortonAbrasiveEMEA](https://www.youtube.com/NortonAbrasiveEMEA)
- [facebook.com/NortonAbrasiveDACH](https://www.facebook.com/NortonAbrasiveDACH)

Norton Winter is a registered trademark of Saint-Gobain Abrasives.  
Form # 4072

