Neo – Application examples

CBN

Clamping recess for M4 screw

Insert data

- Material: Full CBN
- Geometry: C (80°)
- Thickness of insert: 4.76 mm

Processing data

- Processing time: 363 s
- Volume removed: 91.30 mm³



PCD

Roughing contour, Chip breaker, Logo, Text

Insert data

- Material: PCD tip on carbide
- Inscribed circle diameter (blank): 12.7 mm
- Geometry: C (80°)
- Thickness of PCD Layer: 0.6 mm

Processing data

- Processing time on Neo: 310 s
  - Roughing: 110 s
  - Chip breaker: 180 s
  - Logo + Text: 20 s
- 40µm PCD oversize
- Processing time on Leo grinding machine: 230 s



CBN

Chip breaker

Insert data

- Material: CBN tip on carbide
- Geometry: T (triangular)
- Thickness of CBN Layer: 0.9 mm

Processing data

- Processing time: 15 s
- Volume removed: 0.34 mm³



PCD

Clamping geometry

Insert data

- Material: Fullface PCD on carbide
- Inscribed circle diameter (blank): 10 mm
- Geometry: R (round)
- Thickness of PCD Layer: 0.5 mm

Processing data

- Processing time: 95 s
- Volume removed: 7.8 mm³



Neo – Application examples

CBN

Clamping geometry

Insert data

- Material: Fullface CBN
- Inscribed circle diameter (blank): 10 mm
- Geometry: R (round)
- Thickness of CBN Layer: 0.5 mm

Processing data

- Processing time: 85 s
- Volume removed: 4.15 mm³



PCD

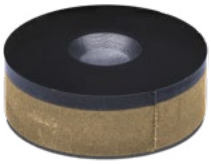
Clamping geometry

Insert data

- Material: Fullface PCD
- Inscribed circle diameter (blank): 10mm
- Geometry: R (round)
- Thickness of PCD Layer: 0.5mm

Processing data

- Processing time: 95 s
- Volume removed: 4.15 mm³



CBN

Clamping geometry + Chip breaker

Insert data

- Material: Fullface CBN
- Inscribed circle diameter (blank): 10 mm
- Geometry: R (round)
- Thickness of CBN Layer: 0.5 mm

Processing data

- Processing time: 157 s
- Volume removed: 12.6 mm³



PCD

Clamping geometry + Chip breaker

Insert data

- Material: Fullface PCD
- Inscribed circle diameter (blank): 10 mm
- Geometry: R (round)
- Thickness of PCD Layer: 0.5 mm

Processing data

- Processing time: 165 s
- Volume removed: 12.6 mm³

