Case Study: Ultra fine grinding on large SiC-Wafer

Grinding competence for high level industrial applications

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Surface quality: Ra 0.1 ; Rz 1.0
Material: 100Cr6
Dressing interval: 7 Stk.
Dressing amount: 2 x 0.004 mm
Cycle time: 14 sec.
Dimension: DT 20x33x6 X=5 W=3
ISO 25178:
SR: 51.19 Ångström
Sv: 71.14 Ångström
Sz: 122.3 Ångström
Ss: 9.39 Ångström
Sq: 11.81 Ångström

Internal cylindrical grinding in CBN and diamond
Honing and finishing tools made of corundum and silicon carbide
Top class diamond dressing tools of highly advanced technology
Internal cylindrical grinding in corundum and silicon carbide
Double disk fine grinding wheels in CBN and diamond

Precise grinding tools for the semiconductor industry
High-tech processes in the manufacture of semiconductor components require high-precision diamond grinding tools.

Your benefits:
- Customer specific Solutions
- Surface qualities in Angstrom ranges
- Grinding of ultra-thin wafers
- Processing of Si, SiC, Saphir, GaN, InP, GaAs, LiNbO$_3$, LiTaO$_3$, glass, glass ceramic, and other hard materials

For more information:
www.meister-abrasives.com/technology

Technologies:

- **VM (DIA)**
  - Diamond micro grains for precise geometries and best surface qualities

- **3D (DIA)**
  - 3D diamond structure with extremely high pore volume for maximum service life and low grinding forces with the best surface quality

- **Vit (DIA)**
  - High cutting volumes and high wear resistance for best economy

- **Ceramet (DIA)**
  - Hybrid bond with high wear resistance and exceptional cutting performance for demanding hard material processing