



## **MIRA ICE**

VITRIFIED BONDED WORM GRINDING  
WHEELS FOR CONTINUOUS GENERATING  
GRINDING OF GEARS

# MIRA ICE

The MIRA ICE product line has been specially developed for the continuous generating grinding of gears. A new kind of development approach enables unprecedented results to be achieved in terms of economic efficiency and cool grinding.

**+ Shorter grinding times:**

Due to the significantly higher stock removal rates and fewer rough grinding passes, grinding times can be cut by up to 50%.

**+ Longer tool life:** Due to reduced shift travel and increased dressing cycles, the tool life of each wheel can be lengthened by up to 100%.

**+ Highest process stability:** The best quality standards and a completely homogeneous grinding wheel structure ensures consistent tooth profile quality of the highest standard.



**Application**

Continuous generating grinding of gears



**+ High-precision pre-profiling:**

Pre-profiling for module sizes 1 – 12 with one or more starts in maximum quality. Pre-profiling for high-quality and special gears is tailored specifically to customer requirements.

## Example application

Worm grinding wheel measuring 280 x 160 x 115 mm / 3-starts  
Gearing with size 4 module / No. of teeth 34 / Tooth width 22 mm /  
Involute toothing 20°

**Grinding time reduced by 50%**



**Tool life increased by 70%**

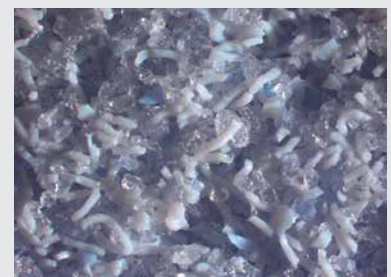


**New approach to development**

New grain qualities and geometry

New high-strength bond system

Increased porosity of grinding wheel



MIRA ICE grinding wheel structure