



MIRA ICE

Vitrified bonded profile grinding wheels for gear grinding

MIRA ICE

The MIRA ICE product line was developed together with established TYROLIT experts in order to meet the requirements for grinding large gears. A new approach to development enables results to be achieved in terms of economic efficiency and "cool" grinding that were previously unheard of. MIRA ICE has been further optimised on the basis of the leading product line from BURKA-KOSMOS and sets new standards throughout the industry.

Application

Grinding of large and special gears



+ **Cool grinding:** The use of new grain qualities and the new high-strength bond system guarantees particularly cool grinding.

+ **Optimised economic efficiency:** Longer dressing cycles and short grinding times significantly reduce the processing costs per component.

+ **Highest process stability:** Despite improved performance parameters, the new grinding wheel design guarantees optimal grinding results every time.



MIRA ICE is a continuation of our established approach: BURKA-KOSMOS offers the most economical grinding process for the profile grinding of gearing.

New approach to development

- New grain qualities and geometries
- New, high-strength bond system
- Increased porosity of the grinding wheel



MIRA ICE surface structure

Example of application

Increase in stock removal volume $V'w$ when rough grinding a size 7 gearing module with 102 teeth from 800 to 3000 mm^3/mm .



Reduction in total machining time by 30 percent.

