

VIPER ALPHA

Ceramic bonded high performance grinding tools for the patented Viper grinding process.



VIPER ALPHA

With the VIPER ALPHA, Tyrolit is setting a further milestone in the economical production of turbine blades. Thanks to the new ALPHA technology, these vitrified bonded high-performance grinding wheels convince with exceptional lifetime, high profile retention and cool grinding.

ApplicationVIPER-grinding of turbine components



- Increased lifetime: The new grain quality with special grain geometry together with optimalgrain integration lead to low wear of the grinding wheels. This significantly increases the life time.
- + Environmentally-friendly:
 The new VIPER ALPHA products convince with an environmentally friendly production method, without the use of organic burnout materials, as well as consumption-optimized fire curves. Hence, CO2 emissions can be reduced significantly.

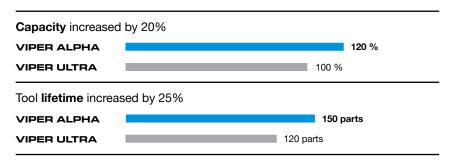


Cool grinding: The specially developed sintered aluminum oxide ensures particularly cool grinding and low grinding forces.

+ **High profile retention:** Thanks to the high profile retention the dressing intervals can be significantly extended.

Application example

Grinding of a fir tree profile of a turbine blade for the turbine industry TYROLIT VIPER ULTRA (VU33A60II10VB1) and VIPER ALPHA (VAA9A60II10WVK5):



ALPHA-technology at a glance:

- New grain quality with Tyrolit technology
- New grain geometry with Tyrolit technology
- Assured quality through in-house grain production
- Adapted high strength binding system