

RMEA2301

Rime

advanced tools production

ENERGY & AEROSPACE
TURBINE CUTTERS





ENERGY AND AEROSPACE TURBINE CUTTERS



since 1962

technology, research
and quality


MADE IN ITALY

Rime

advanced tools production

THE FACTORY

For over half a century Rime has been synonymous of technology and innovation. High quality standards, continuous research and production control, which is carried out entirely in our Villa Carcina factory, make Rime one of the most reliable technological players in the field of HSSCo-PM and Solid Carbide Cutting Tools, Standard and Special.

SPECIAL TOOLS





We
design and

manufacture special milling cutters to meet the highest quality standards, with extremely tight tolerances required by the aerospace industry. Our cutting tools create surface finishes of the highest quality and free from defects. The perfect mix of carbide, geometry and latest generation coatings enables us to manufacture high-performance cutting tools with constant quality over time.

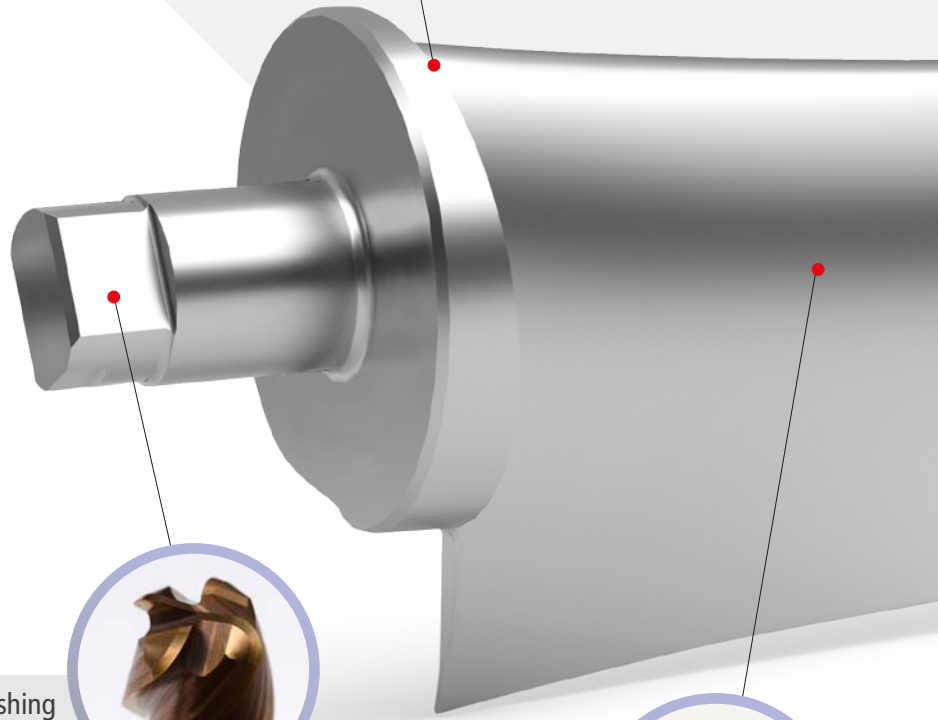
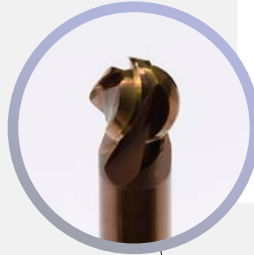
AEROSPACE

Machining materials

- Stainless steels
- Titanium alloys
- Nickel alloys
- HRSA
- Aluminium alloys

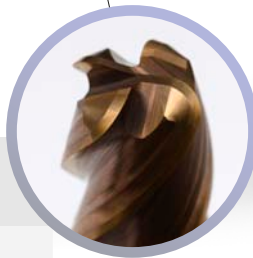
3D machining

- Solid Carbide
- Lollipop cutter with working angle up to 250°
- Geometry designed specifically for aerospace materials
- Excellent surface finishing
- Special coating



Roughing and Finishing slot and flat surfaces

- Solid Carbide
- Geometry designed specifically for aerospace materials
- Excellent surface finishing
- Special coating



Finishing the turbine blade

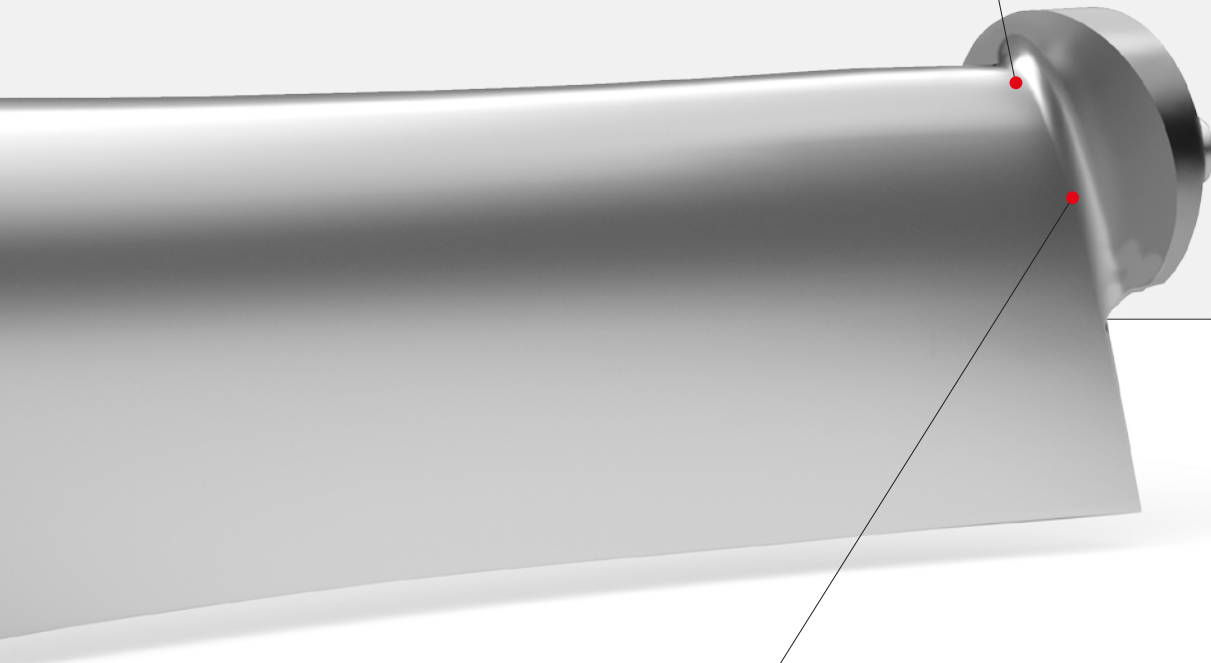
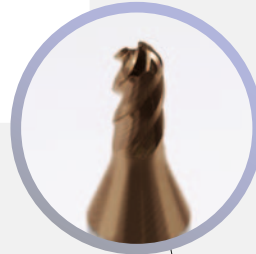
- Solid Carbide
- Multi-flutes for excellent surface finishing
- Internal coolant holes
- Geometry designed specifically for aerospace materials
- Special coating





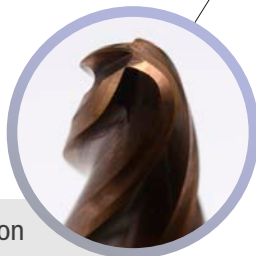
Finishing the transition radius

- Solid Carbide
- Geometry designed specifically for aerospace materials
- Excellent surface finishing
- Special coating



Finishing the transition radius and platform

- Solid Carbide
- Ball nosed conical cutter
- Geometry designed specifically for aerospace materials
- Special coating



Customer care
Tailor made
Strict tolerance up to $\pm 1 \mu\text{m}$
Quality certificate

ENERGY



For more
than
40
years

we have been working with major national and international gas and steam turbine manufacturers. Over the years, through the relationship with our customers, we have grown in knowledge and expertise.

We design and manufacture special Solid Carbide and HSSCo-PM milling cutters with both sharpened and grinding profile, for milling components such as rotor groove, blade root, turbine rings, blade foil.



Opening dovetail groove profile

- Solid carbide
- NFR interrupted cutting
- Grinding Profile
- Special coating



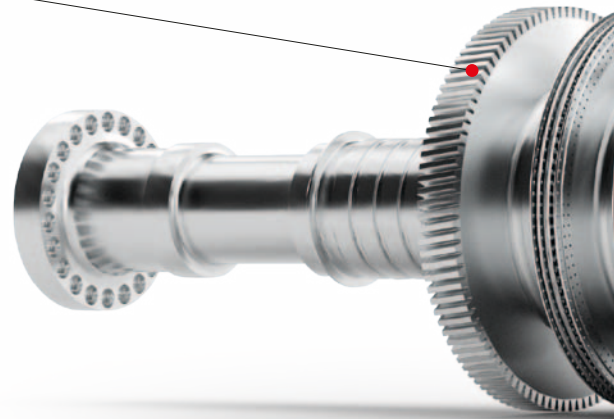
Roughing and Finishing dovetail groove profile

- HSS-CoPM/Solid carbide
- Sharpened profile/Grinding Profile
- Special coating



Opening fir-tree groove profile

- HSS-CoPM /Solid carbide
- Grinding profile
- NRF chip breaker
- Internal coolant holes
- Special coating



Roughing and Finishing sealing groove profile

- Solid carbide
- Sharpened profile
- Special coating



Machining materials

- Alloy and cast steels
- Stainless steels
- Titanium alloys
- Nickel alloys
- HRSA



Roughing fir-tree groove profile

- HSS-CoPM/Solid carbide
- Grinding profile
- NRF chip breaker
- Internal coolant holes
- Special coating



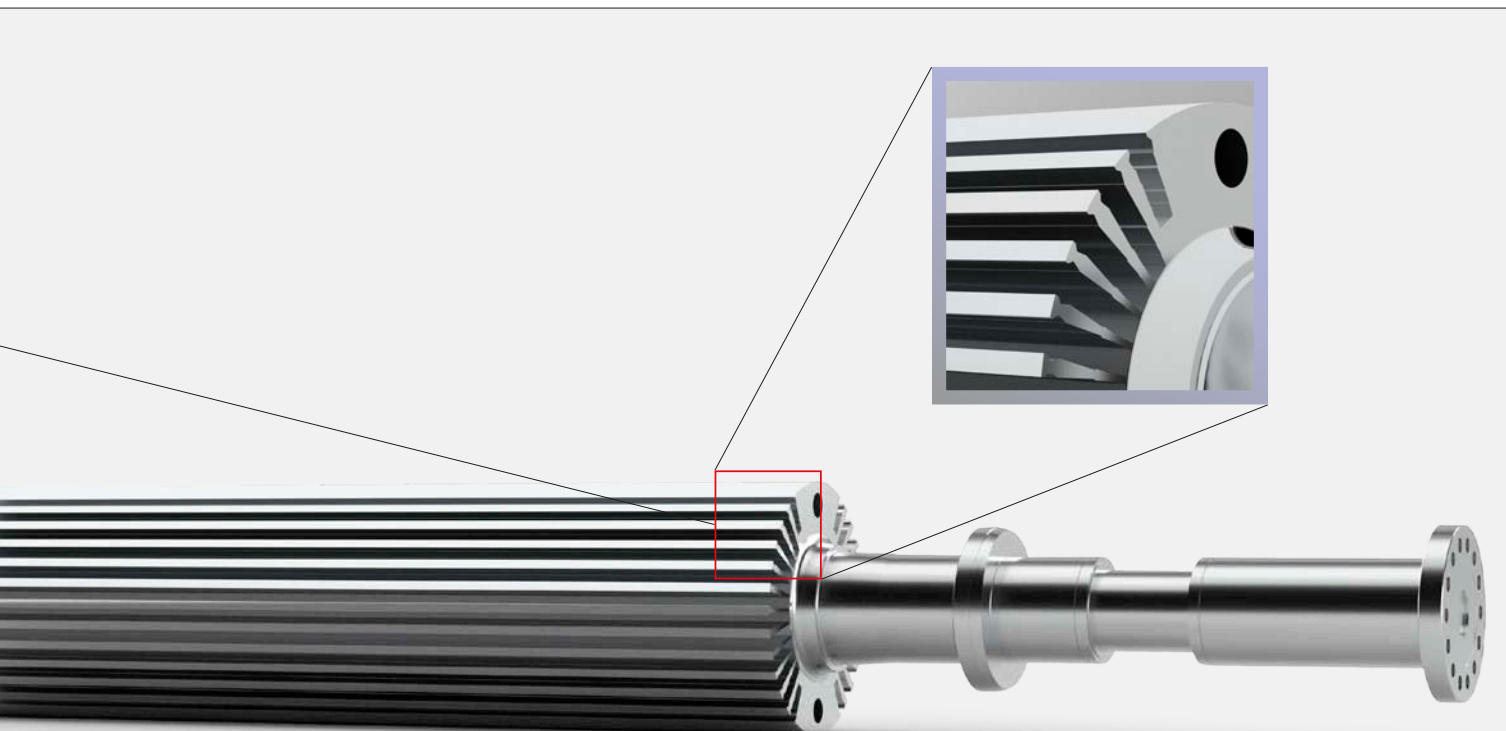
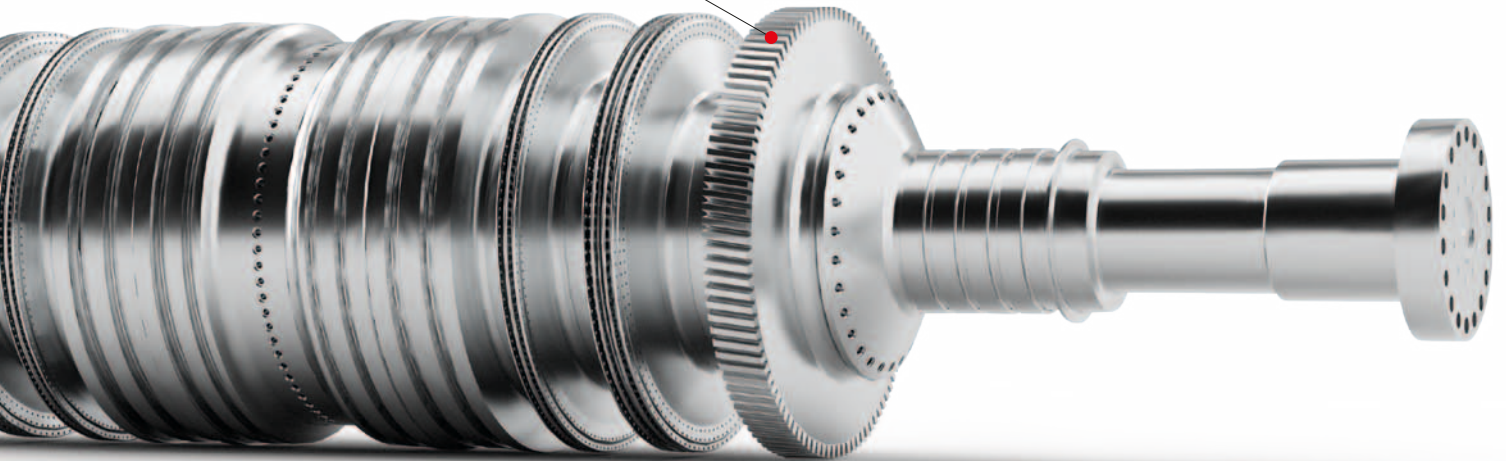
Finishing fir-tree groove profile

- HSS-CoPM
- Integral solution with ISO connection
- Grinding profile
- Internal coolant holes
- Special coating



Finishing fir-tree groove profile

- Solid carbide
- Sharpened profile
- Internal coolant holes
- Special coating



Customer care Tailor made Strict tolerance up to $\pm 1 \mu\text{m}$ Quality certificate



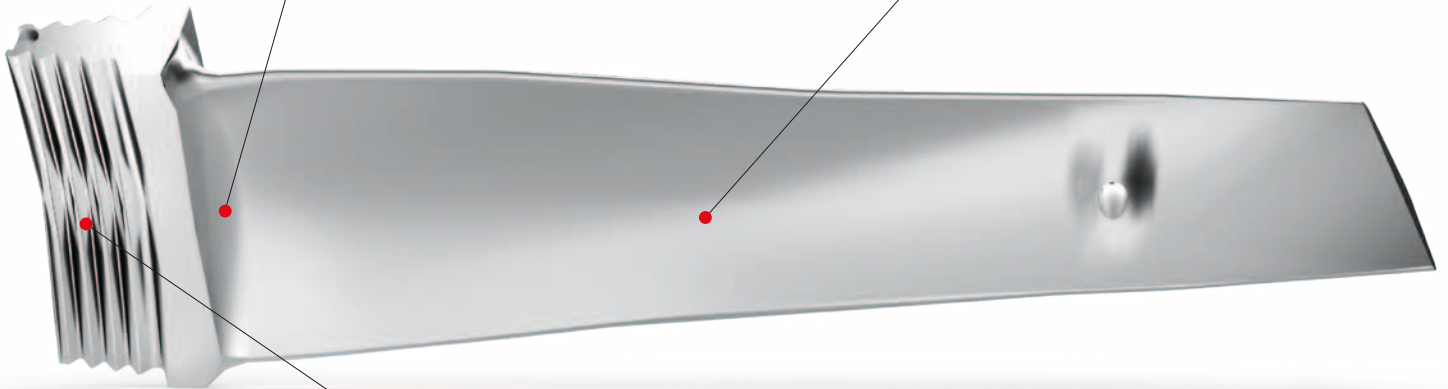
Finishing the transition radius and platform

- Solid Carbide
- Ball nosed conical cutter
- Special coating



Finishing the turbine blade

- Solid Carbide
- Multi-flutes for excellent surface finishing
- Internal coolant holes
- Special coating



Semifinishing and Finishing fir-tree blade root profile

- HSS-CoPM/Solid Carbide
- Shell end mills with DIN138 connection
- Sharpened profile/Grinding Profile
- Internal coolant holes
- Special coating



Semifinishing and Finishing fir-tree blade root profile

- HSS-CoPM/Solid Carbide
- Sharpened profile/Grinding Profile
- Special coating



Semifinishing and Finishing dovetail blade root profile

- HSS-CoPM/Solid Carbide
- Sharpened profile
- Special coating

RESEARCH & QUALITY

In order to maintain high quality standards, we constantly monitor the supply chain of our technological partners: from raw material suppliers, to new coating materials, to the latest generation of grinding centres and the robotisation of production systems.

The Research and Development sector has a central value in our company.

The use of the most advanced graphic simulators allows us to experiment virtually with new geometries and to fully engineer the production process.

Systems and machinery always updated for quality control allow us to maintain the production at the highest quality level.

100%
MADE IN EUROPE



100%
MADE IN ITALY



We are certified
ISO 9001

SPECIAL TOOLS



ENERGY AND AEROSPACE TURBINE CUTTERS

Rime
advanced tools production

