

RAL90 Aluminium router

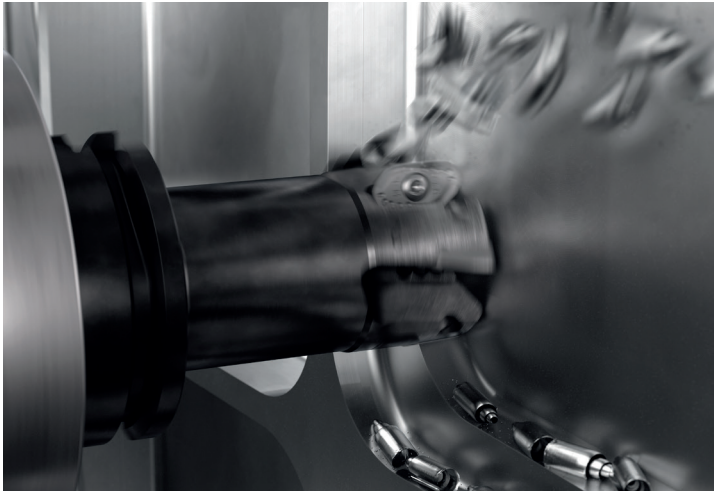
Exceptional metal removal rates



The RAL90 aluminium milling cutter sets a new standard for stability levels in high speed milling.

Optimized for high power spindles, RAL90 offers exceptional metal removal rates. The accuracy of the insert seat interface secures the position of the cutting edge, minimizing total tool run-out.

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Features and benefits

- Secure, high-precision interface between tip seat and insert
- Good ramping capacity
- Coolant nozzles with high pressure capability
- Certified EN ISO 15641:2001 for high spindle rotation, e.g. up to 27500 RPM for DC 40 mm
- Dedicated for pocketing of aerospace frame components in aluminium
- Robust, reinforced cutter body designed for high cutting loads enables extreme metal removal rates
- Designed for high security demands with a very limited tool run-out
- Reduced vibration and good chip forming due to a smooth cut

Application

- Pocket milling of aerospace structural frame components in aluminium
- Heavy roughing to semi-finishing with good surface quality

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ISO application area

Need a higher RPM?

In applications requiring even more power and higher metal removal rates, the new RAL90 Super MRR can reach extra high spindle rotation, e.g. up to 33000 RPM for DC 50 mm compared to 23500 RPM for RAL90. This results in a 40% productivity increase.

Exceptional performance can be reached thanks to the secure iLock™ tip seat interface, which prevents micro movements and ejection of the insert.

RAL90 Super MRR is designed with couplings dedicated for specific machine tool makers.

Aluminium machining, accelerated

The RAL90 insert geometry optimized for high speed aluminium machining pushes the limit for material removal rates.

- Edge preparation and surface treatment optimized for long tool life
- The double angle cutting edge provides stability during ramping
- Geometry designed for high pressure coolant



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