

Milling

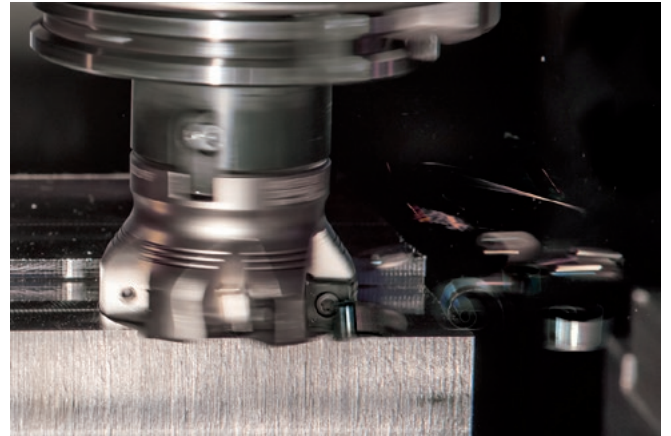
Extended product range



MaxiMill 491 The new 90° shoulder milling system

The new MaxiMill 491 shoulder milling system from Cutting Solutions by CERATIZIT features 8 usable cutting edges per insert and shows excellent performance, quality and price-performance ratio.

Thanks to the latest grinding technology, the precision inserts can be produced with tolerance H. This enhances the service life of the cutting edge, allowing top-quality surfaces to be achieved on your component.



Reduced vibration is a particular advantage when it comes to low-power machines and thin-walled, unstable components.

Quick and easy insert mounting

Durable tool body in new material and 'Hard & Tough' coating

Tools available with close or wide pitch

Exact 90° profile

TorxPlus

Chamfered coolant holes suitable for MQL, emulsion and compressed air

Your advantages

- ▲ Exact 90° profile with 8 usable cutting edges per insert
- ▲ Ground precision insert with tolerance H
- ▲ Smooth cut with low power consumption
- ▲ Outstanding surface quality
- ▲ Universal application (e.g. face milling, shoulder milling, peripheral milling, slot milling, trochoidal slot milling)
- ▲ Tools with irregular pitch for minimum vibration during the milling operation
- ▲ Optimum chip evacuation
- ▲ Coolant arrives directly on the cutting edge; emulsion, MQL or compressed air can be used

Your benefits

- ▲ Excellent economic efficiency regarding the price per cutting edge for 90° shoulder milling
- ▲ Exact 90° profile
- ▲ Perfect axial run-out precision and concentricity
- ▲ Very good suitability for low-power machines
- ▲ Quick and easy loading of the milling cutter possible



Maximum repeatability thanks to innovative insert design with generous contact faces

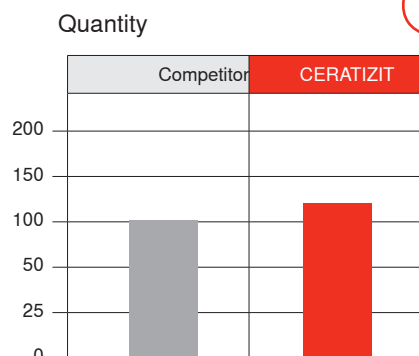


Perfectly adapted chip pockets

A practical example

Spheroidal cast iron

	Competitor	CERATIZIT
Milling cutter	–	A491.80.R.08-12
Insert	–	SNHU 12048SR-R50
Grade	–	CTPK220
Cutting edge/insert	4	8
V_c [m/min]	301	301
V_f [mm/rev]	1200	1200
a_p [mm]	0,5	0,5
Quantity	100	120



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Insert start programme

The insert start programme for ISO P steel, ISO K cast iron and ISO M stainless steel machining features the latest BLACKSTAR™ and SILVERSTAR™ manufacturing technology. For the machining of aluminium, the proven CTWN215 grade is used.

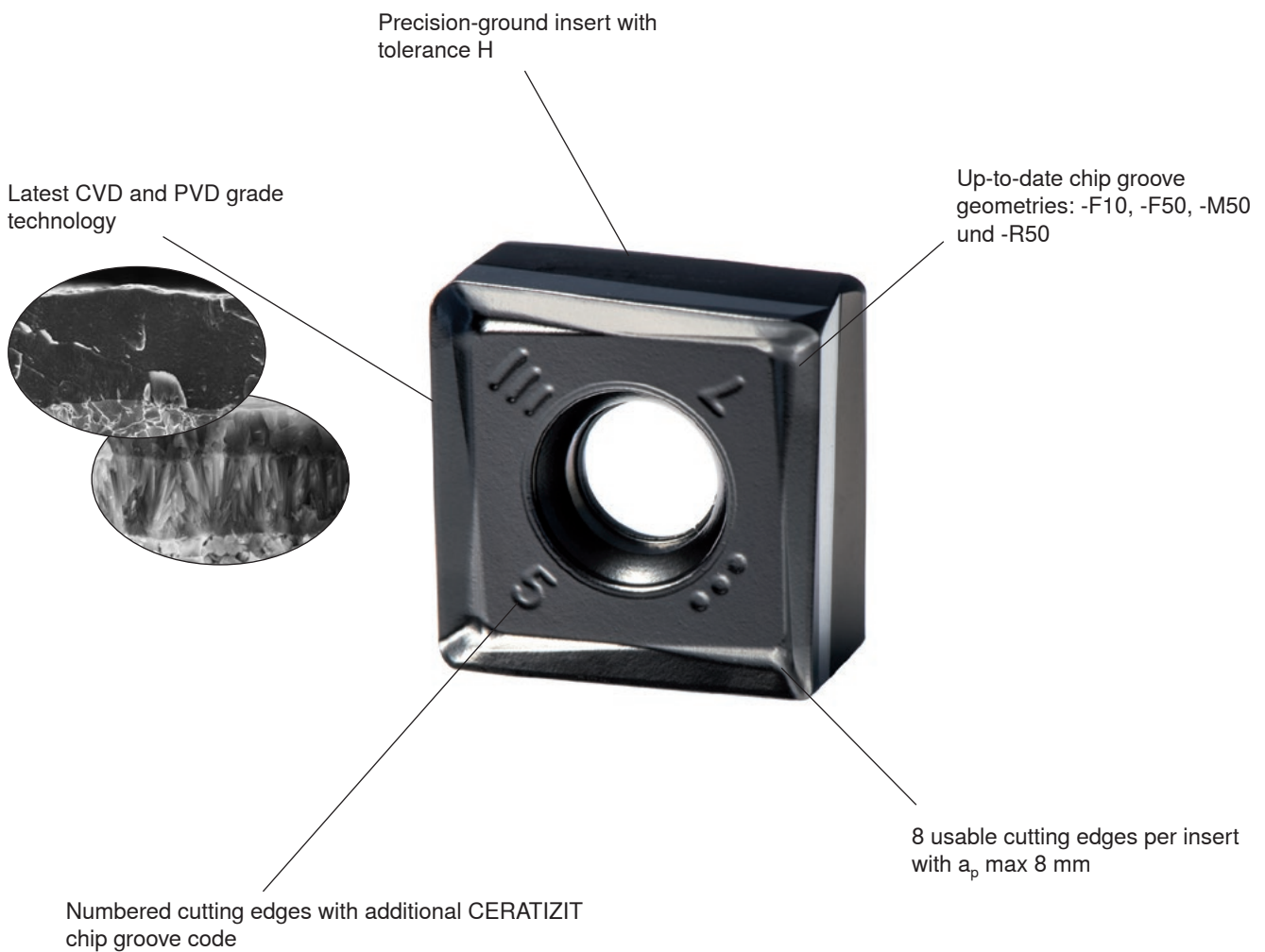
▲ Extended range of corner radii 1.2 mm - 1.6 mm - 2.0 mm

In addition to corner radius 0.8 mm the product range has been extended with the corner radii 1.2 mm, 1.6 mm and 2.0 mm.



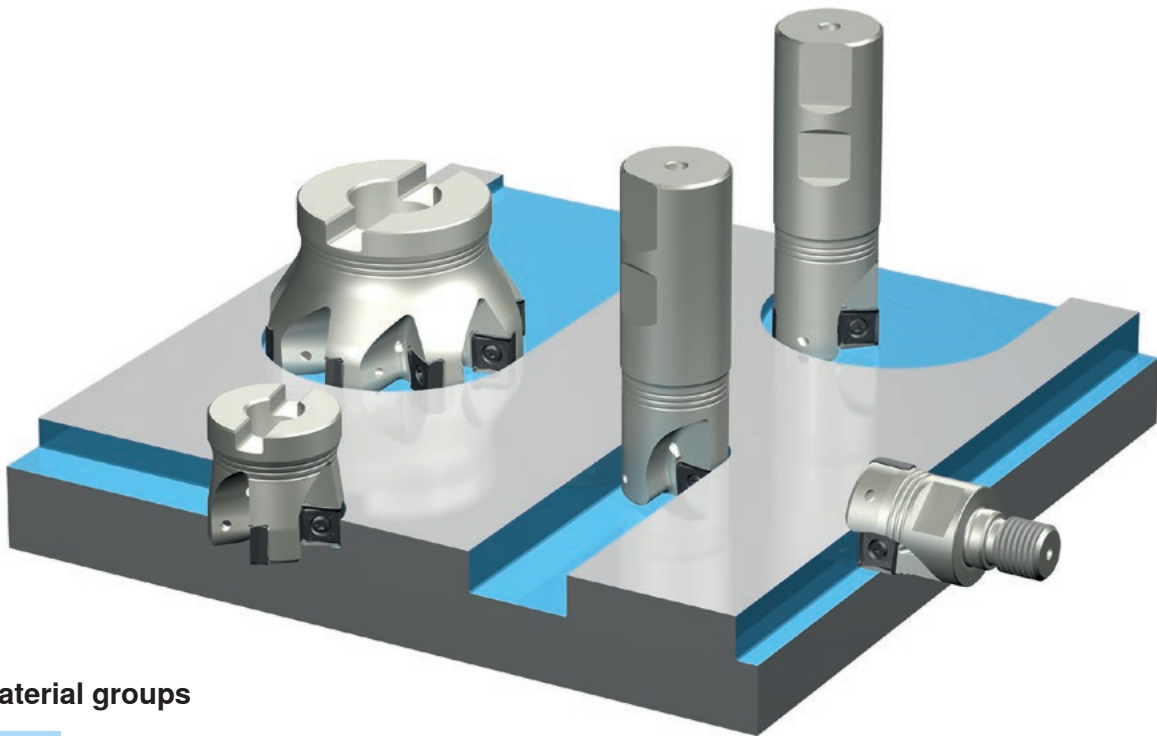
▲ BLACKSTAR™

▲ SILVERSTAR™

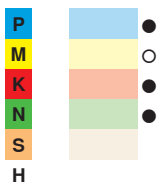


90° shoulder milling system with 8 cutting edges per insert

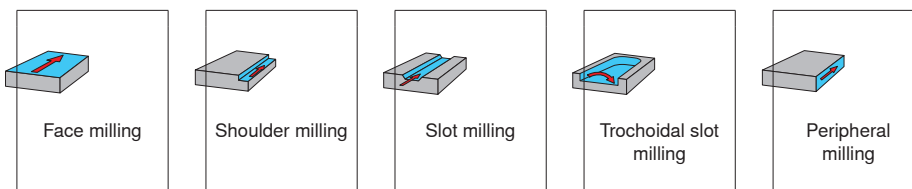
- Exact 90° profile
- Easy handling
- Ground precision insert with tolerance H



Material groups



Possible applications



Detailed information

Pitch	Ø range	Inserts
	<p>Ø 32 - 160 mm</p>	<p>SNHU 12..</p>