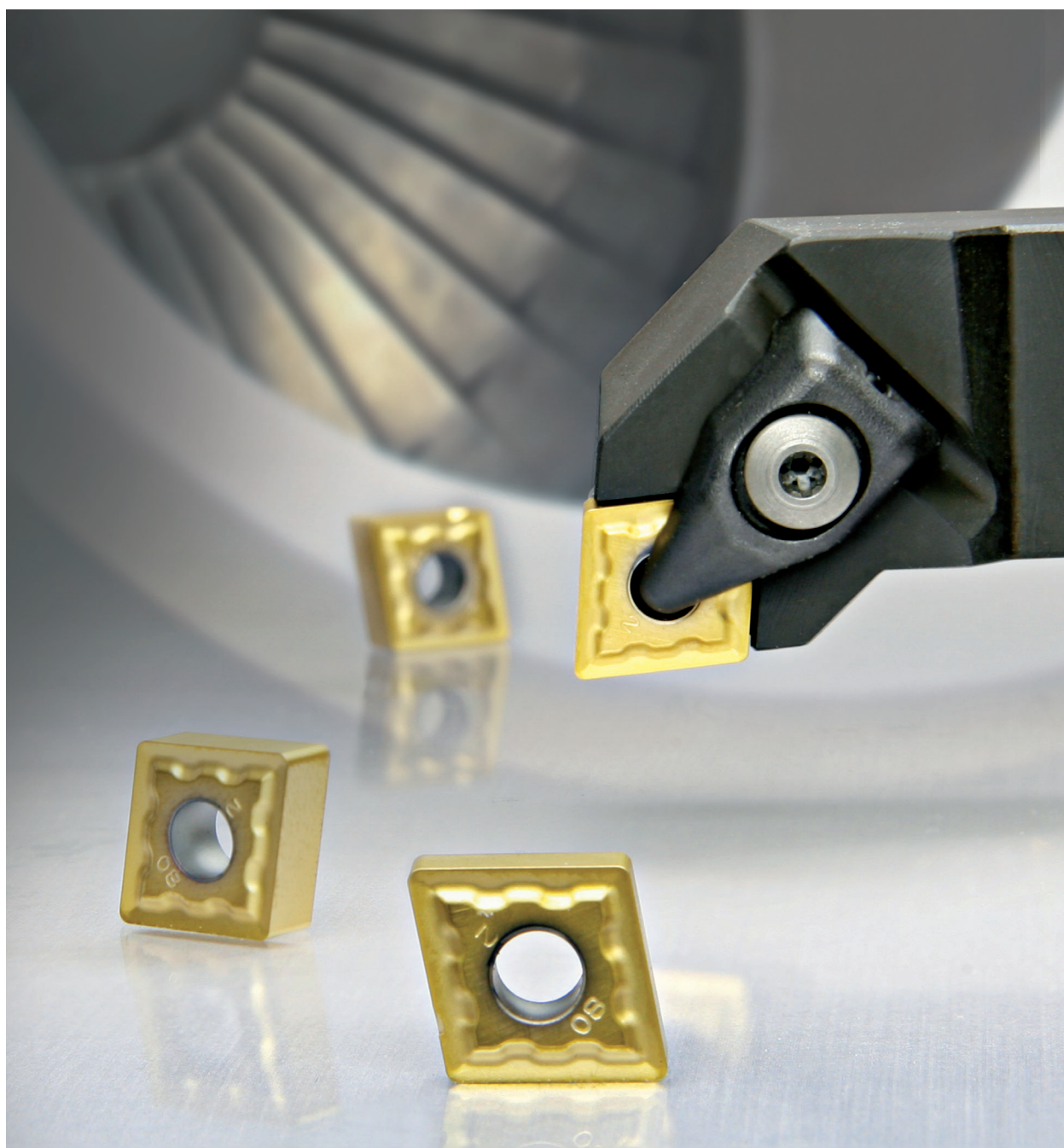


Turning of high-tech materials

CTP5115 /-M34, /-F34





Application – customer benefits

Industries

- ☐ Chemical industry
- ☐ Aerospace
- ☐ Power generation
- ☐ Oil and gas extraction
- ☐ Electronic and household appliances

Typical components

- ☐ Turbine shafts
- ☐ Components for missile engines
- ☐ Housings
- ☐ Components for pumps

Materials

Super alloys

Nickel-based super alloys

- ☐ Waspaloy ®
- ☐ Inconel 718 ®
- ☐ Nimonic 90 ®

Iron-based super alloys

- ☐ Jethete M-152 ®
- ☐ Incoloy 909 ®

Cobalt-based super alloys

- ☐ Stellite 12 ®
- ☐ Haynes 188 ®

Applied where resistance to heat and aggressive media is required.

Product advantages

CTP5115

High resistance against notching



Resistance to edge chipping

Limited tendency to adhesion



Surface finish

High application security



Only reduced control of the machine necessary

Swarf control



Optimized chip deviation

High heat resistance



No plastic deformation

YOUR benefits



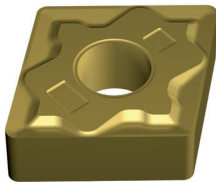
Geometries – optimum chip direction for long chipping materials

-M34



- ☐ For medium machining
- ☐ Low cutting forces
- ☐ Optimized chip direction for heat evacuation
- ☐ Rake angle 10 – 15°
- ☐ Cutting depth from a_p : 1 mm up to 4 mm according to insert size
- ☐ Medium feed rates from f : 0.08 mm up to 0.30 mm according to the material

-F34



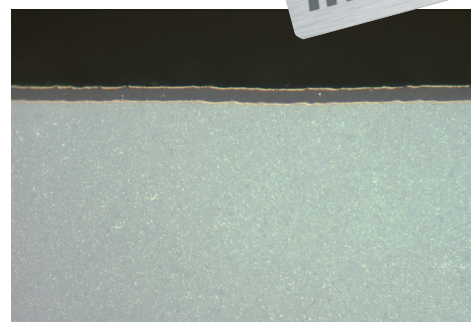
- ☐ The finishing geometry
- ☐ Sharper cutting edge
- ☐ Rake angle 10 – 15°
- ☐ Minimum formation of burrs
- ☐ Cutting depths from a_p : 0.1 mm up to 2 mm according to insert size
- ☐ Medium feed rates from f : 0.05 mm up to 0.18 according to the material

Solutions for positive inserts available upon request.

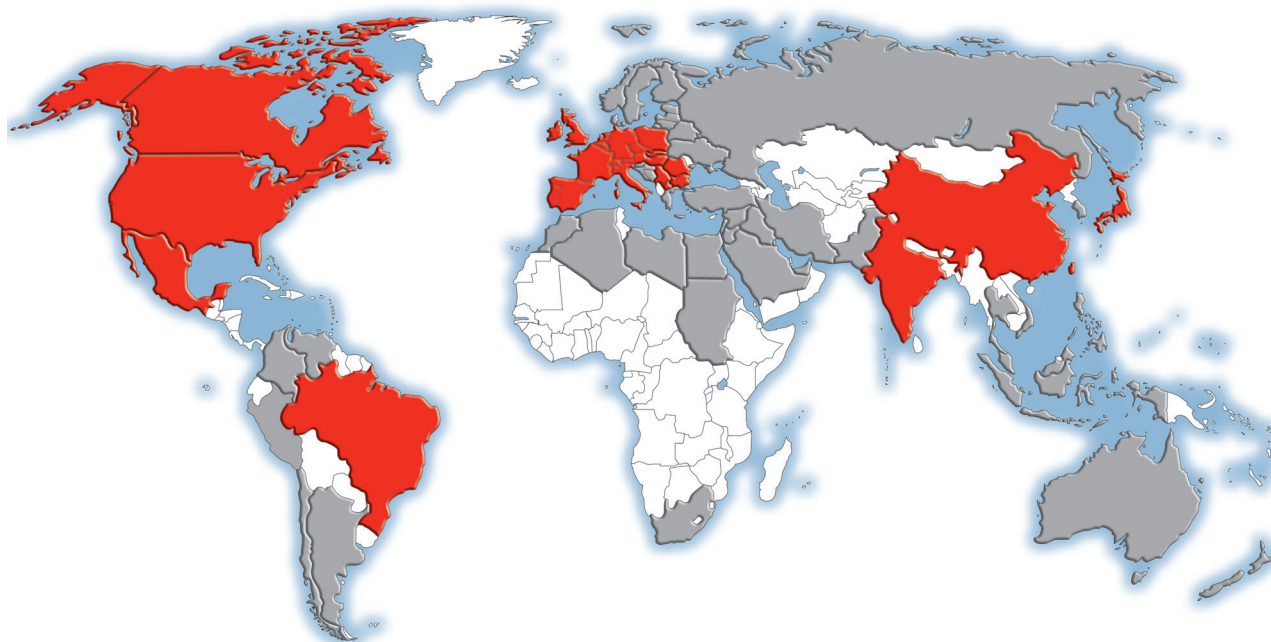
The turning grade for super alloys

- ☐ 4 μ m multilayer PVD coating with doping
- ☐ Fine grain grade 0.8 μ m
- ☐ Hardness HV 30 1820
- ☐ Excellent rupture resistance
- ☐ Very high heat resistance

CTP5115



CERATIZIT worldwide



- CERATIZIT worldwide production sites and support centres
- CERATIZIT worldwide distribution partner network



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