



VEHICLES



AEROSPACE



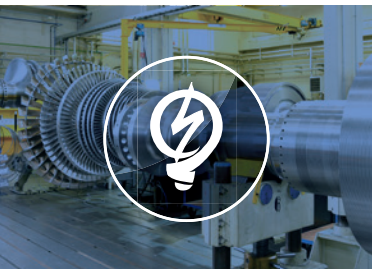
GEARS & BEARINGS



ENGINEERING



WIND ENERGY



Turning operation of
**NICKEL-BASED ALLOYS AND
OTHER MATERIAL THAT IS
DIFFICULT TO MACHINE**

More productivity when turning heat-resistant super-alloys

The SiAlON LST320 cutting material was specially developed for cutting HRSA materials (heat-resistant super-alloys). Its balanced properties between toughness and wear-resistance makes it possible to achieve high cutting parameters during roughing and semi-finishing. A tool system with directed cooling has recently become available for HRSA-processing. The cooling lubricant is brought as close to the working area as is possible and reasonable. When using high pressure in the cooling lubricant system, the chips can be kept significantly shorter than in typical flood cooling.

The tools are produced individually for the respective operation site depending on the operating conditions. Some standard holding bracket types are available from the stock inventory.

This means that cutting materials and tools are available for turning operations of HRSA materials, resulting in a reliable, high cutting performance.

Areas of application:



Turning of discs, blisks, shafts, housing
for aircraft turbines



Turning of valves and pipes in the gas and
oil industry



Turning operations for gas turbine
components in the energy sector

Materials:

Heat-resistant super-alloys (HRSA) such as Inco718, X-750, Inco625, Udimet, Rene

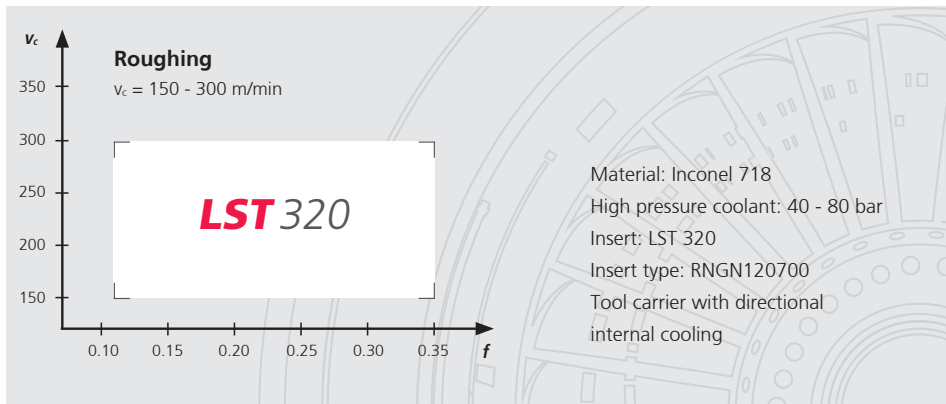
Launcher for turning from HRSA:

RNGN 120700 .. RCGX 09/12 0700 ..

RPGN 120400 .. RPGX 09/1207

Different fibre types that are precisely coordinated to the specific application are available.

Cutting inserts with special geometries are available on request.



High-pressure tools

The tool systems with directed interior cooling as standard are available for common round cutting inserts (RN, RC, RP). The CeramTec engineering team is here to support the reliable machining of your components with individually designed, standard and special tools. Contact: **Contact: solutionteam@ceramtec.de**



Unwanted ribbon chips



Optimal short chips

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