

GUHRING

PR 1000 M



Turbochargers

GUHRING - YOUR PARTNER WORLD-WIDE

COLD SIDE

Compressor wheel

Material: AISi

Shaft bore



Solid carbide pilot drill

N = 8000 1/min
f = 0.17 mm/rev.



Solid carbide pre-drill

N = 8000 1/min
f = 0.17 mm/rev.



PR 1000 M

N = 5000 1/min
f = 0.25 mm/rev.

Blade milling



Solid carbide radius milling cutter

N = 24000 1/min
f = 0,14 mm/rev.

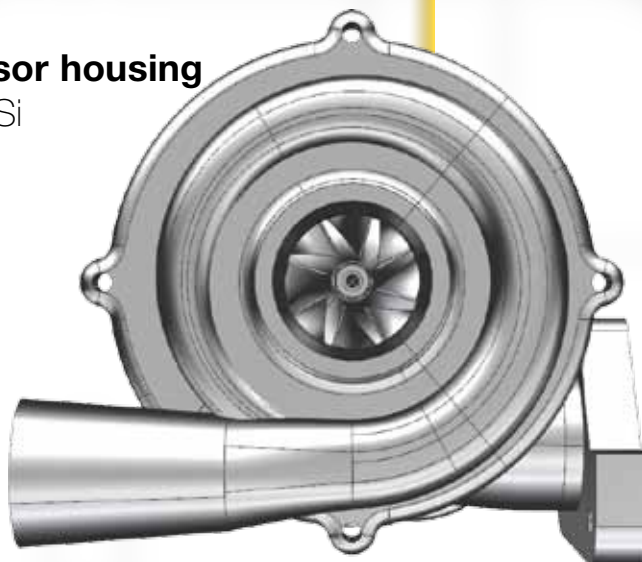


Countersink/chamfer tool

N = 6000 1/min
f = 0,10 mm/rev.

Compressor housing

Material: AISi



Tap M10

N = 1200 1/min
P = 1.5



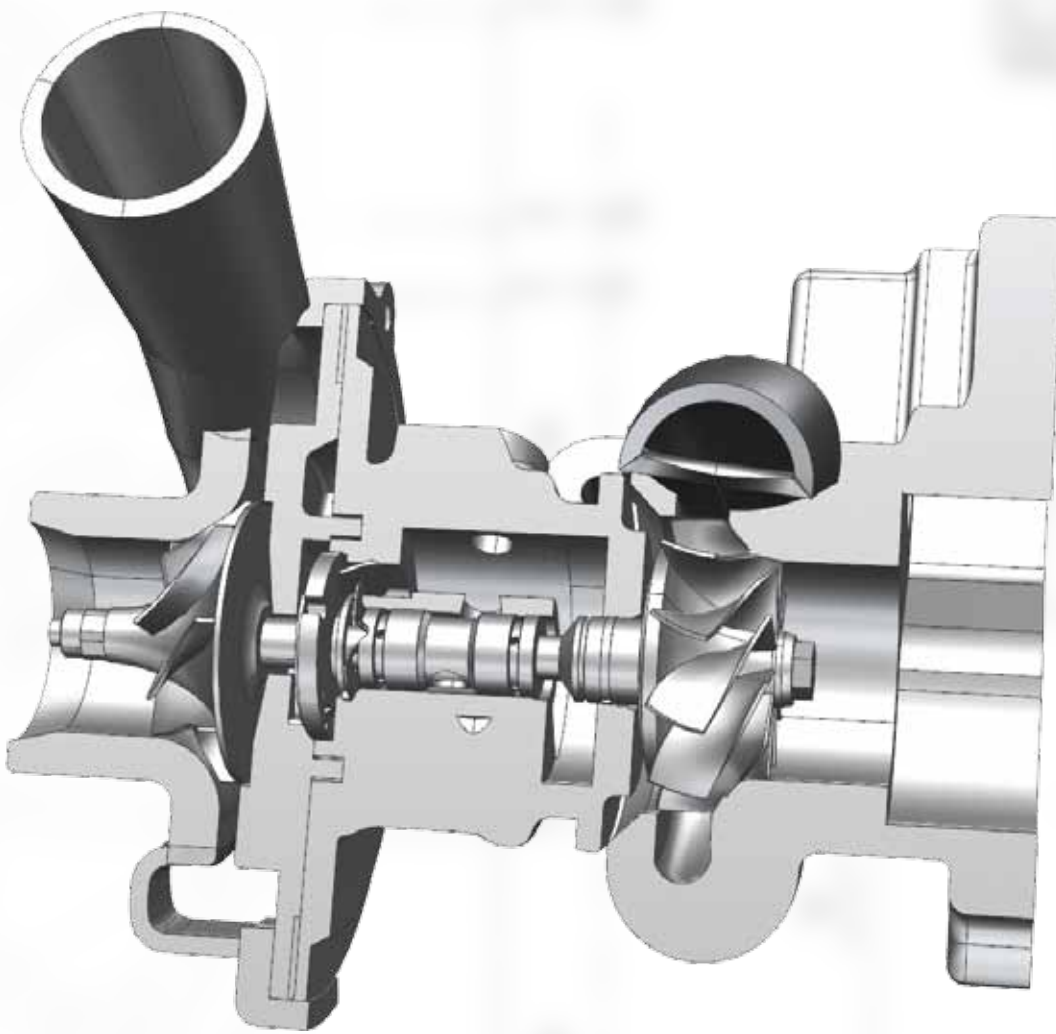
PCD overturning tool

N = 10000 1/min
f = 0.4 mm/rev.



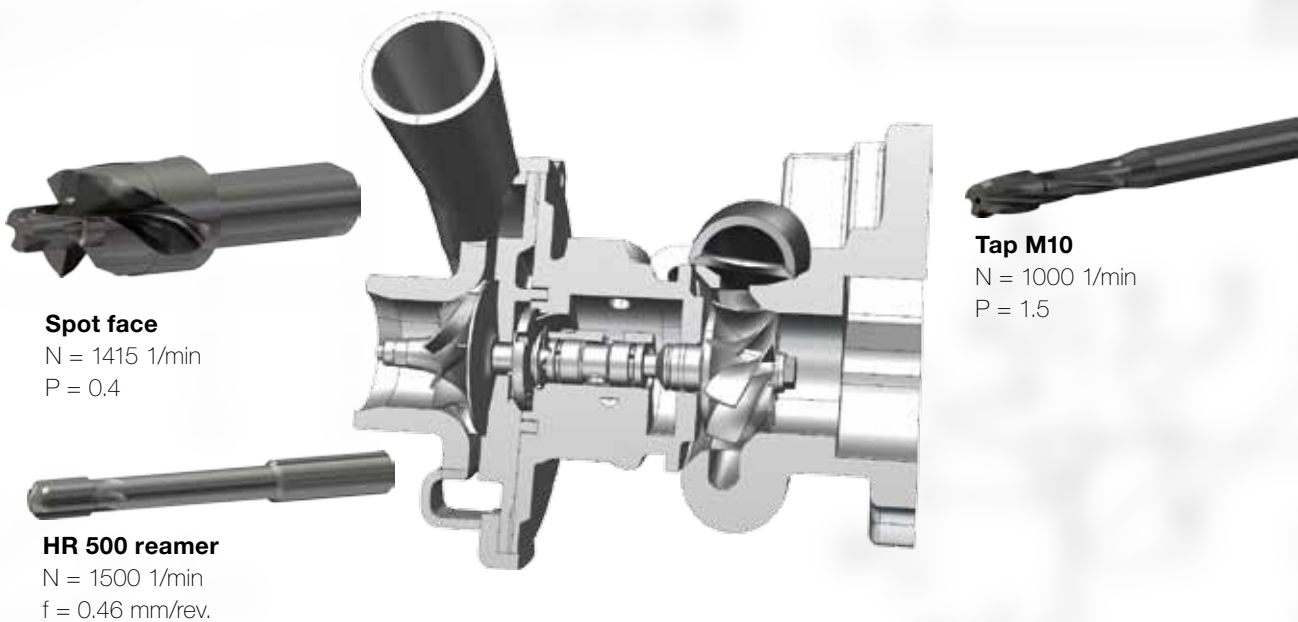
Adjustable PCD reamer

N = 8000 1/min
f = 0.6 mm/rev.



BEARING HOUSING

Material: GG



Spot face

N = 1415 1/min
P = 0.4

HR 500 reamer

N = 1500 1/min
f = 0.46 mm/rev.

Tap M10

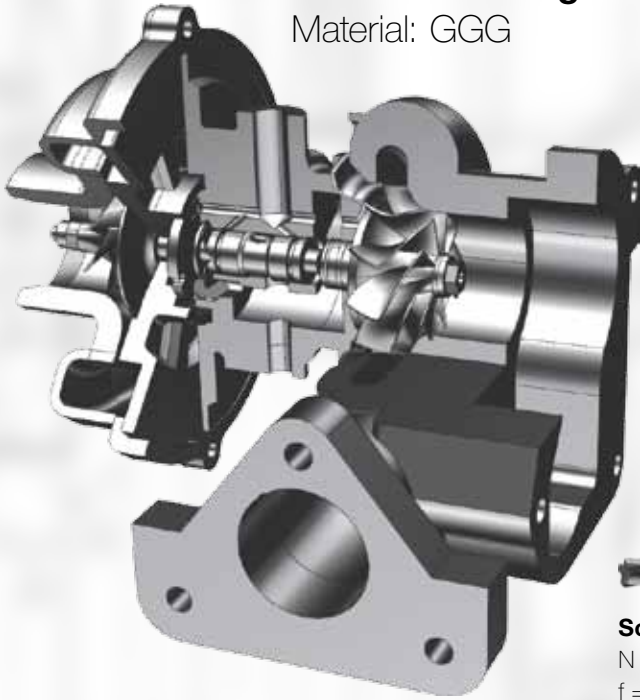
N = 1000 1/min
P = 1.5

Guhring provides optimal technical and economic solutions for the machining of all sub-assemblies. Complete machining concepts are not regarded as suitable due to the diversity of turbochargers and manufacturing processes. The policy is **individual customer solutions.**

HOT SIDE

Turbine housing

Material: GGG



Solid carbide step drill

N = 1270 1/min
f = 0.3 mm/rev.



Solid carbide contour cutter

N = 2785 1/min
f = 0.53 mm/rev.

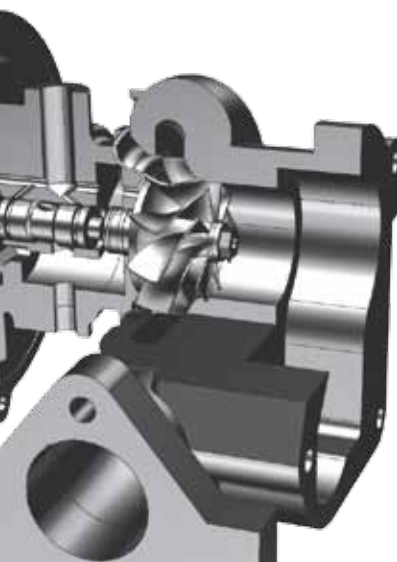


Solid carbide combi cutter

N = 2785 1/min
f = 0.36 mm/rev.

Hollfelder-Guhring machining concept

out of standard components



Turbine wheel

Material: Inconel



HSS centre drill

N = 3500 1/min
f = 0.015 mm/rev.

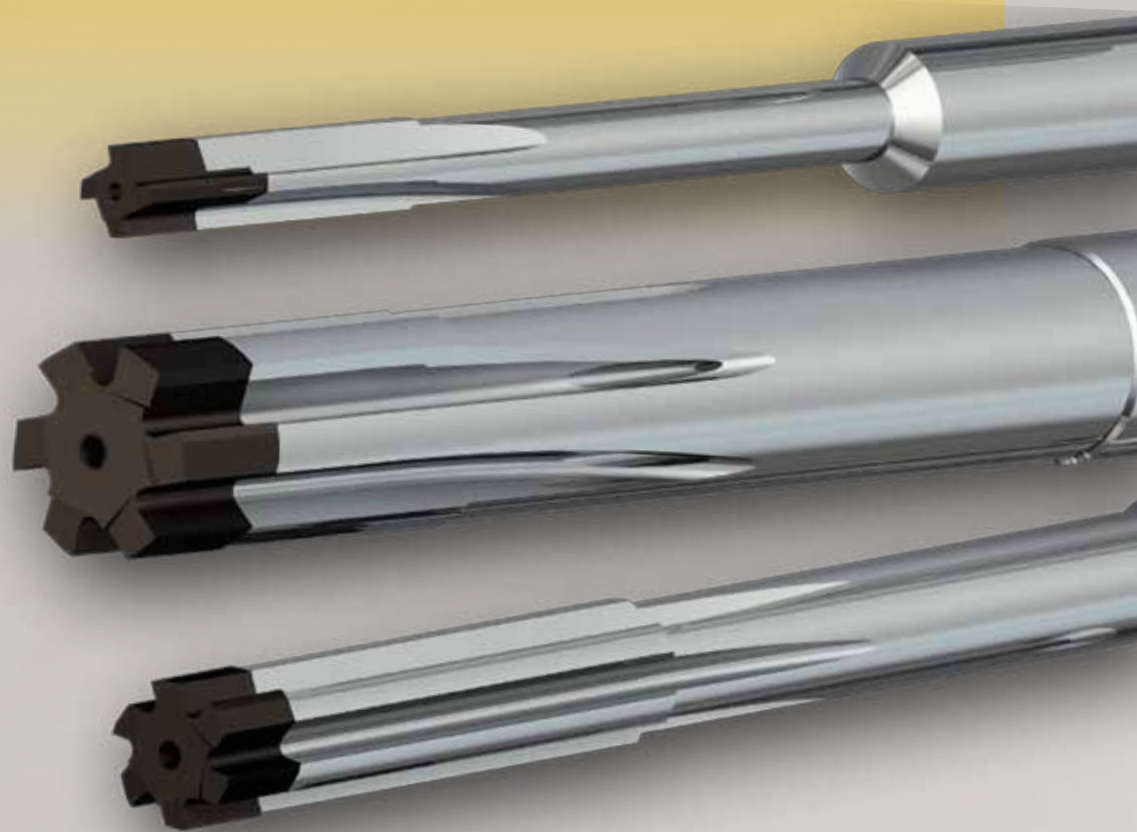
Tooling know-how from a single source

The machining of turbochargers is the perfect example of a highly complex, extremely demanding machining task. Components in a variety of materials must be machined with μm accuracy so that the turbocharger can meet the extreme demands of every day use.

Guhring provides you with intelligent, powerful and highly accurate tooling solutions from one source for all turbocharger machining matters that harmonise perfectly in your production.

Your advantages:

- > **perfectly co-ordinated tooling solutions**
- > **a smooth production process**
- > **a contact person to answer all your machining questions**



PR 1000 M reamers:

Smallest diameters with a high number of flutes

- from \varnothing 2.0 mm with 4 flutes
- from \varnothing 3.0 mm with 6 flutes

Maximum performance for super-fine finishing of very small blind hole and through hole diameters!

GUHRING

Our know-how is available close by
anywhere in the world:

.....
Gühring PCD production and service centres



.....
Gühring oHG

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