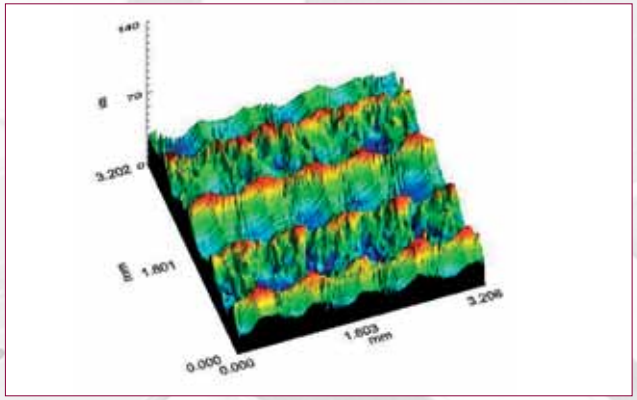
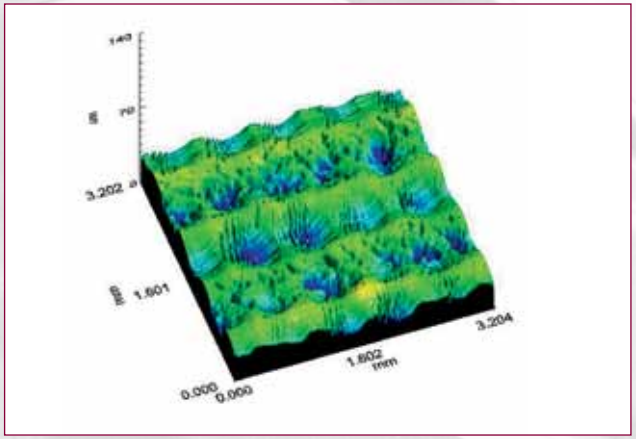
COLD FORGING WITH FORGEfix® P BENEFITS AT A GLANCE:

- Processing also complex tool- and mould surfaces according to NC datasets
- Using on machines such as standard CNC tooling machines, robots or similar
- No negative thermal effects (such as those caused by long runtimes during electrodynamic cold forging)
- Handy tool
- Can automatically be exchanged



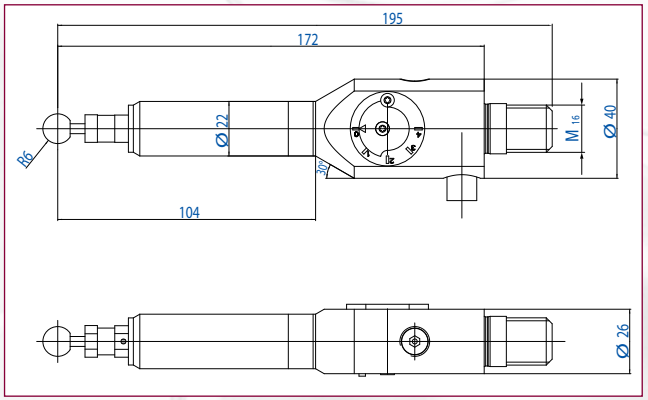
Surface after ball milling with pronounced roughness peaks



Tribologically optimised surface after cold forge processing

TECHNICAL DATA:

Length:	195 mm
Diameter:	40 mm
Threaded shank:	M 16
Stroke adjustment:	from 0 to 4 mm
Frequency f at 6 bar:	≥ 200 Hz



All values in mm. Changes reserved.

FORGEfix® P

Pneumatic cold forging Precision tool

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PREMIUMTOOLS. WE KNOW HOW.

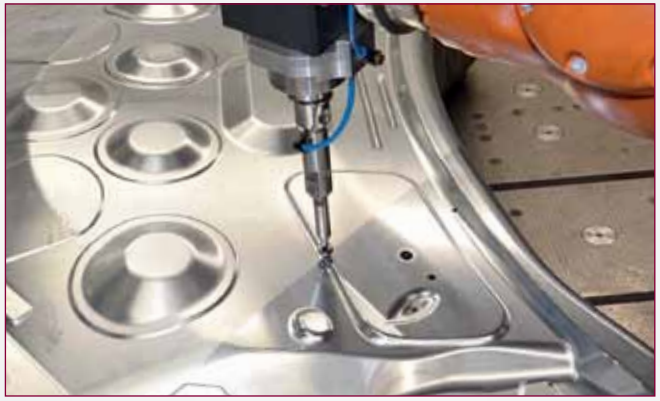
FORGEfix® P - PNEUMATIC COLD FORGING PRECISION TOOL FOR MECHANICAL WORKPIECE SURFACE TREATMENT

The pneumatic cold forging tool **FORGEfix®P** with threaded shank M16 is now available for the high-quality, economical and reproducible smoothing also of complex surfaces.

To the now common method of manual polishing for high-quality surfaces in the tool- and mould-making is high due to lack of time, effort and reproducibility very disadvantageous.

Cold forging

- is a process for mechanical surface treatment
- in which a hammering tool is moved systematically over the workpiece surface by a CNC tooling machine or arobot or similar systems
- is compared to known methods a superior method of surface treatment. Known methods such as shot blasting, form grinding, deep rolling or laser polishing



Use of **FORGEfix® P** for cold forging of batch drawing tools on a robot system

The surface is processed line-by-line. Millions of contact points ensure a very high homogeneous surface.

FORGEfix® P - pneumatic cold forging tool with stroke adjustment, exclusively available from POKOLM with threaded shank M16

COLD FORGING BENEFITS ALL METHODS

- Machine smoothing significantly reduces the high time and cost outlay of manual surface finishingin tool- and mould-making.
- In addition, customised structures can be created, such as lubrication pockets which help to improve friction properties.
- Increased surface hardening through cold solidification reduces wear not only on forming tools, but also on all types of metallic bearings and guides.
- Optimised distribution of residual stress prevents the formation of cracks on components subject to variations in stress, thus increasing their service life.

Use of **FORGEfix® P** on a CNC tooling machine