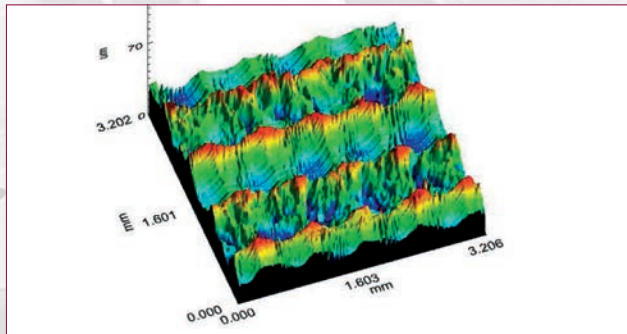


COLD FORGING WITH FORGEfix® P BENEFITS AT A GLANCE:

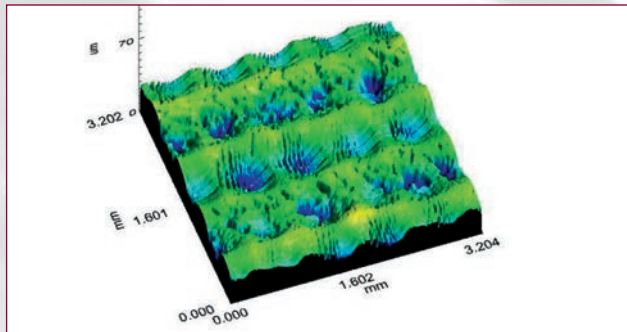
- ➔ Processing also complex tool- and mould surfaces according to NC datasets
- ➔ Using on machines such as standard CNC tooling machines, robots or similar
- ➔ No negative thermal effects (such as those caused by long runtimes during electrodynamic cold forging)
- ➔ Handy tool
- ➔ Can automatically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



Practical video:
FORGEfix® P in 1.2312



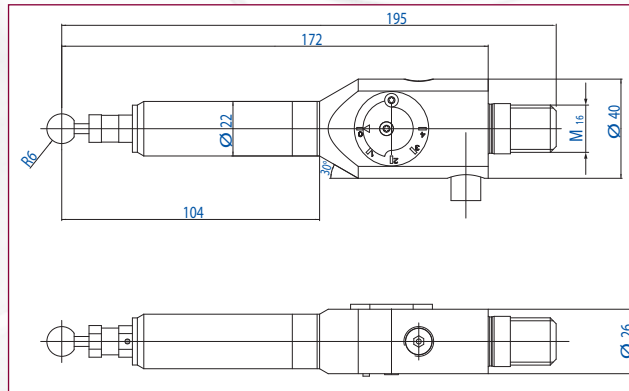
Surface after ball milling with pronounced roughness peaks



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

Development partner
and Sales distribution:

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pokolm
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 a robot 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 finishing in 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.

FORGEfix® P - RANGE OF PRODUCTS:

Catalogue no.	Article
	Three Sets of Cold forging systems are available: - Hit energy approx. 250, 500 or 1000 N - Ram long cone for knock balls - Knock ball as attachment to ram, diameter 12 mm
FFP-HP-A	Set, hit energy approx. 1000 N
FFP-SP-A	Set, hit energy approx. 500 N
FFP-LP-A	Set, hit energy approx. 250 N
FFP-ZB-DV-HP	Kit pressure distribution HP
FFP-ZB-DV-SP	Kit pressure distribution SP
FFP-ZB-DV-LP	Kit pressure distribution LP
FFP-ZB-K-10	Knock ball, diameter 10 mm
FFP-ZB-K-12	Knock ball, diameter 12 mm
FFP-ZB-K-16	Knock ball, diameter 16 mm
FFP-ZB-K-20	Knock ball, diameter 20 mm
FFP-ZB-ST-L	Ram long cone for knock balls, diameter 10 - 20 mm
FFP-ZB-ST-L-3	Ram long, diam. 3 mm, ram shaft 4 mm conical, grinded ball on carbide ram (one unit)
FFP-ZB-ST-L-4	Ram long, diam. 4 mm, ram shaft 4 mm conical, grinded ball on carbide ram (one unit)
FFP-ZB-ST-L-6	Ram long, diam. 6 mm, ram shaft 4 mm conical, grinded ball on carbide ram (one unit)
FFP-ZB-ST-L-8	Ram long, diam. 8 mm, ram shaft 4 mm conical, grinded ball on carbide ram (one unit)