



SUPERFINISH

Vertical machining
of crankshafts

supfina 720/4

	passenger cars	trucks
Max. distance between centers:	850 mm	1300 mm
Max. stroke:	100 mm	170 mm
LxBxH per station:	3 x 2.5 x 3 m	4 x 2.5 x 3.5 m
Loading height:	1050 mm	1000 mm





Our offer → your benefit

Vertical machine design

→ Compact machine layout, thanks to the integrated workpiece conveyor

Modular design with one or more stations

→ Adaptable equipment according to workpiece geometry and surface requirements

Loading by means of walking beam or pallet system

→ Straightforward integration into the flow of workpieces along the entire production line

→ Facility for establishing a buffer stock of workpieces

Of vertical configuration, the Supfina 720 is designed for the mass production of the most wide ranging types of crankshaft.

Loading can be performed either by a walking beam or pallet system. One lift raises the crankshaft to a position directly between the centers of the tailstock and headstock.

Under NC control, the crankshaft is clamped between the centers and set into a rotary motion which is superimposed by a short-stroke oscillating movement.

The superfinishing units are mounted to a slide above the machining plane. For maintenance operations and tape replacement, the entire slide can be traversed sideways into a servicing position. As an option, the slide can traverse automatically along the crankshaft in stages.

Single- or multi-stage processing can be carried out, depending on the quality required of the workpiece. Therefore, the machine consists of modular stations and superfinishing units equipped with special machining shoes.

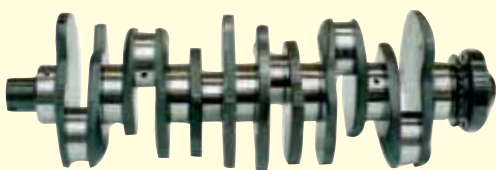


Superfinishing units mounted above the machining plane



Replaceable quick-change shoes permit adaptation to a variety of workpiece geometries

Crankshaft (steel, induction hardened)



Results

Rz < 1.6 μm
Cycle time including loading, 40 s

