



Reishauer PSK | September 2023

Profile grinding of collision-critical workpieces



The profile grinding heads PSK extend the application possibilities of the Reishauer generating grinding machines. They enable the grinding of gears with very small modules and diameters that feature interfering contours.

Profile grinding is an efficient method for the production of prototypes and small lots. Gear profile modifications can be achieved by simply reprogramming the dressing path by using the existing profile grinding dressing tools.

Conversion to the profile grinding head is completed in as little as 20 minutes. On the software side, most Reishauer machines are already prepared for profile grinding. On the hardware side, a B-grinding spindle with «Performance» design is a prerequisite. Two variants of the profile grinding head are available:

PSK D10 profile grinding head (RZ 160 4.0 and RZ 260 4.0 only)

10mm shaft diameter for approaching particularly restricted machining areas

- Diameter of grinding tool: $d_{a\max}$ 50mm; $d_{f\min}$: 20.5mm
- Maximum grinding wheel rotational speed: 27 500 min⁻¹
- Module range: 0.5 – 2.5mm

Profile grinding head PSK D20

20mm shaft diameter for a wider module range

- Grinding tool diameter: $d_{a\max}$ 160mm; $d_{f\min}$: 42.0mm
- Maximum grinding wheel rotational speed: 14 500 min⁻¹
- Module range: 0.5 – 4.0mm

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Gear Grinding Technology