

Precision guide shafts 21595 technical information

The precision guide shafts are induction-hardened and therefore have a uniform radial and axial surface hardness.

Selection criterion for precision guide shafts

Specifications	Material and version	Surface hardness	OD tolerance	Available Ø
- Very high surface hardness - Not corrosion-resistant	Solid shafts, inductively hardened and ground Cf 53 (steel 1.1213)	62 ±2 HRC	h6	3-30 mm
- OD hardened and ca. 10 µm hard-chromed - Corrosion-resistant	Chrome-plated solid shafts, inductively hardened and ground Cf 53 (steel 1.1213)	65-70 HRC	h7	5-30 mm
- High surface hardness - Corrosion-resistant	Corrosion-resistant solid shafts, inductively hardened and ground X46Cr13 (stainless steel 1.4034)	51-55 HRC	h6	6-30 mm
- High surface hardness - Resistant to corrosion and acid	Corrosion and acid-resistant solid shafts, inductively hardened and ground X90CrMoV18 (stainless steel 1.4112)	52-56 HRC	h6	3-30 mm

Roundness	1/2 diameter tolerance
Straightness acc. to DIN ISO 13012	Ø 5–6 mm = 0.15/1000 mm; Ø 8–10 mm = 0.12/1000 mm; from Ø 12 mm = 0.10/1000 mm
Surface	Ra ≤ 0,3 µm