

Precision Turned Shaft

CNC Turned (live tooling) · Ø30 × 160 mm

A stepped drive shaft turned between diameters with a ground Ø25 g6 bearing journal, a keyway and a retaining groove. The g6 journal and 0.02 mm runout are what let it drop straight into a bearing bore.

DIMENSIONS

Major diameter	Ø30 mm
Bearing journal	Ø25 mm g6 (−0.007 / −0.020)
Nose diameter	Ø20 mm
Keyway	6 × 3.5 mm
Retaining groove	Ø23 × 1.6 mm
Overall length	160 mm
Journal finish	Ra 0.8 µm
Runout (TIR)	0.02 mm

AVAILABLE MATERIALS

Material	Family	Rm / Rp0.2 (MPa)
4140 (Q&T)	Chromoly alloy steel	1020 / 900
304 Stainless	Austenitic stainless	515 / 205
17-4 PH Stainless	Precipitation-hardening stainless	1070 / 1000