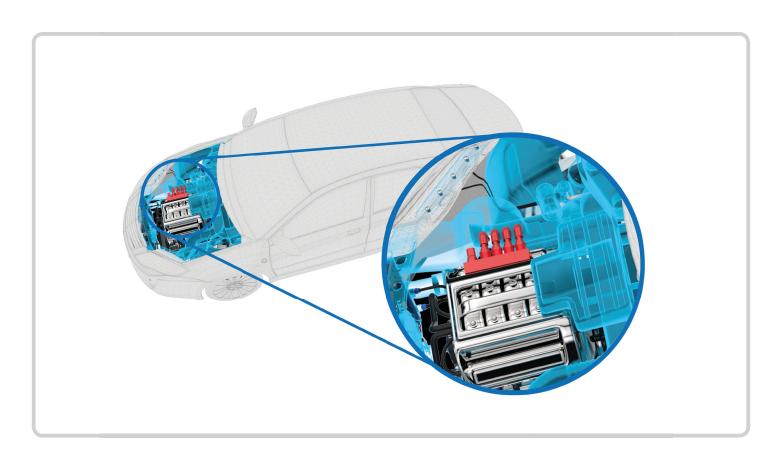


APPLICATION EXAMPLE ▶ Automotive ▶ Guide sleeve



Task Roller Burnishing of the cylindrical inner diameter to surface finishes of about R_{Z} = 2 μm





Solution

Processing with GMI Roller Burnishing tool on Swiss type CNC-automatic lathe





User benefits

- Depth of roughness of $R_a = 0.12 \mu m$ reached
- Reduction of scrap rate (12%) by reaching process stability
- Shortening of process time by about **8%**

Details

Workpiece	Guide sleeve
Part of	Gas valve
Material	Stainless steel
Tensile strength	650-850 Mpa
Hardness	200-205 HB

Parameter

Tool	GMI
Circumferential speed	75 m/min
Feed rate	0,1 mm/rev.
Cycle time	2 seconds