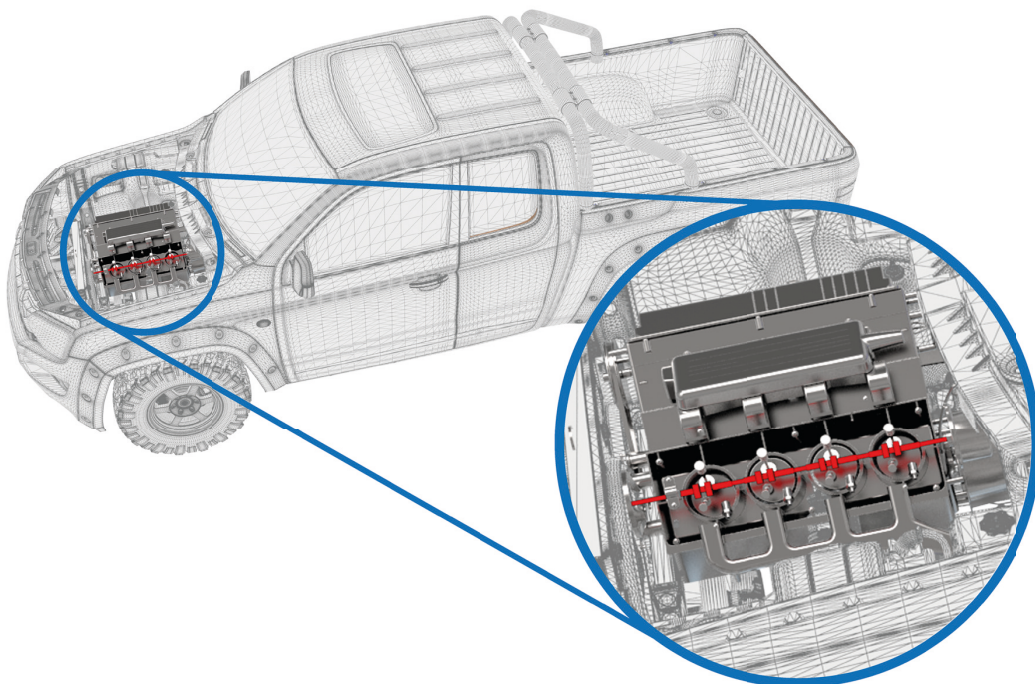


APPLICATION EXAMPLE ▶ Automotive ▶ Camshaft



Task

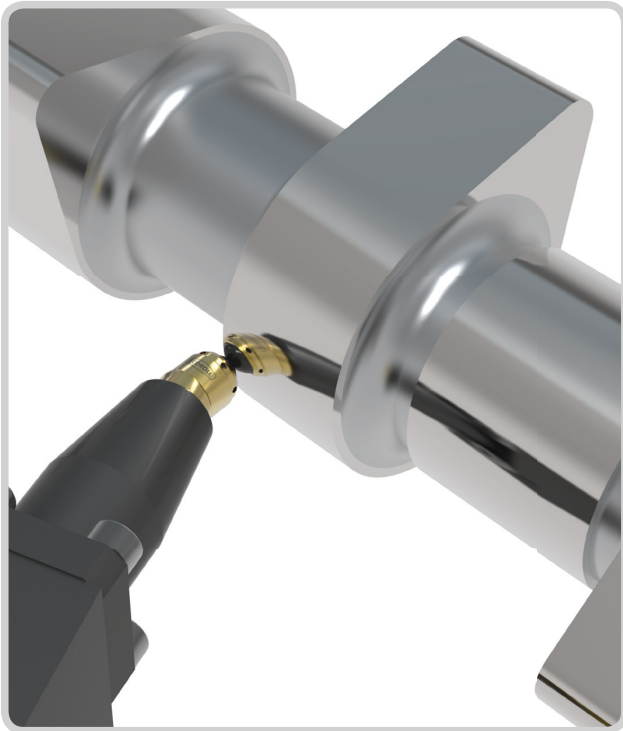
Decrease friction coefficient and increase wear resistance





Solution

Hard-Roller Burnishing of camshaft lobes with HG6-9 tool



User benefit

- Reduction of friction by about **20%**
- Increase of hardness by about **6%**

Details

- Workpiece Camshaft
- Part of Passenger car engine
- Material Chilled cast iron
- Hardness..... 55 HRC
- Demand..... $R_a \leq 1,5 \mu\text{m}$

Parameter

- Tool HG6-9
- Circumferential speed ... 40 m/min
- Feed rate 0,15 mm/rev.