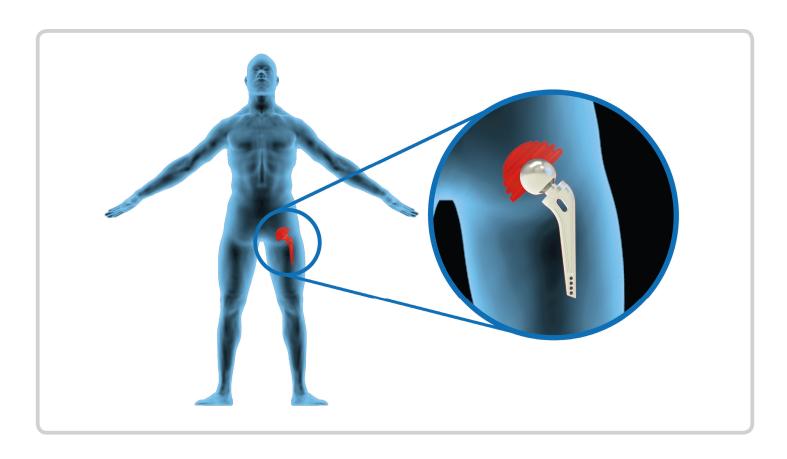


# APPLICATION EXAMPLE ▶ Medical technology ▶ Ball joint of hip-prosthesis



**Task**Improve the surface quality of a ball joint for a hip-prosthesis





### **Solution**

Roller Burnishing of the ball joint surface and shortening the polishing process





#### **User benefits**

- Shortening of the polish process
- Reduction of production costs by about **27%**
- Achievement of surface quality R<sub>z</sub> < 0,6 µm

## **Details**

Workpiece	Ball joint
Part of	Implant
Material	Titan alloy
Tensile strength	1000 N/mm
Hardness	39 HRC

#### **Parameter**

Tool	HG6-9K
Circumferential speed	150 m/min
Feed rate	0,1 mm/rev.
Rolling force	750 N