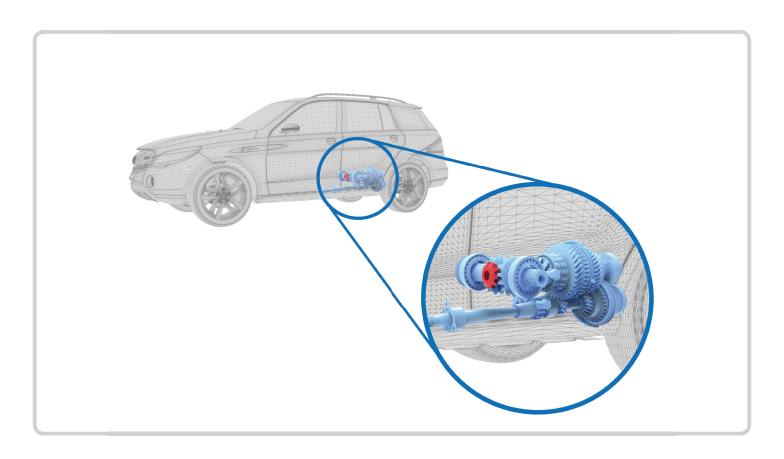


APPLICATION EXAMPLE ▶ Automotive ▶ Bevel gear



Task $Improvement\ of\ surface\ roughness\ of\ spherical\ bevel\ gear\ to\ \ R_Z=2\ \mu m$





Solution

Concurrent roller burnishing on both sides of a disc brake with HG6-29 tool





User benefits

- Reduction of process time by about **20**%
- Compensation of tool costs by about **15**%
- **Higher process reliability** by HG-following system

Details

Workpiece	Bevel gear
Part of	Differential gear
Material	16CD4
Tensile strength	1000 N/mm²
Hardness	42 HRC

Parameter

Tool	HG6
Circumferential speed	250 m/min
Feed rate	0,1 mm/rev.
Rolling force	750 N
Cycle time	4 seconds