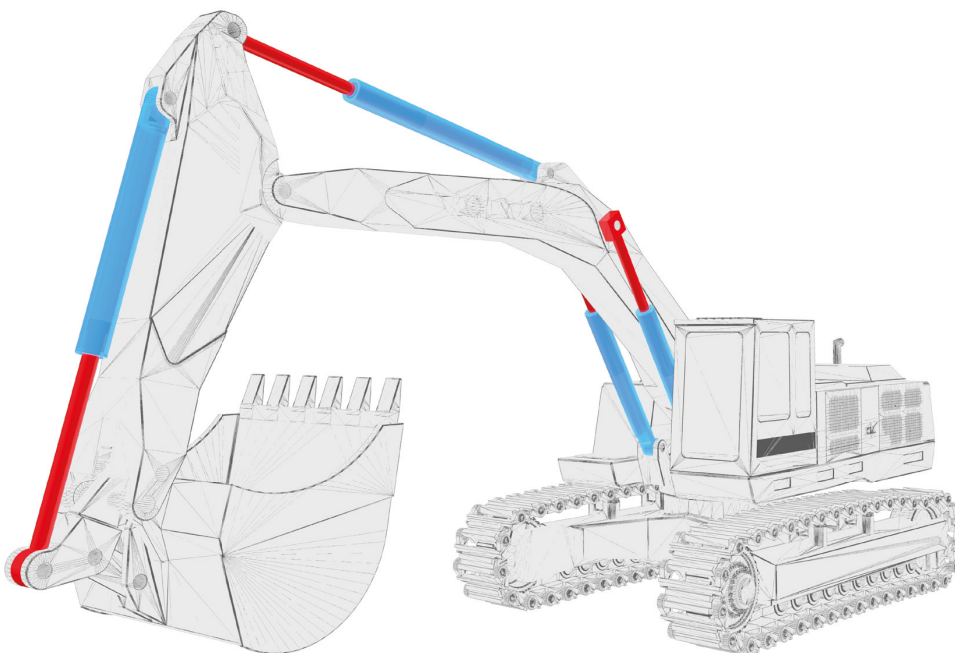


## APPLICATION EXAMPLE ▶ Construction machine ▶ Piston rod



### Task

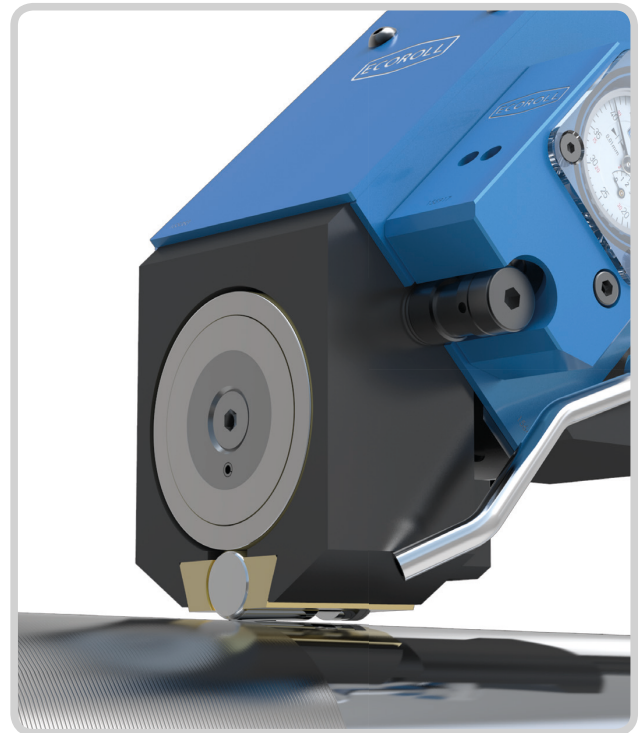
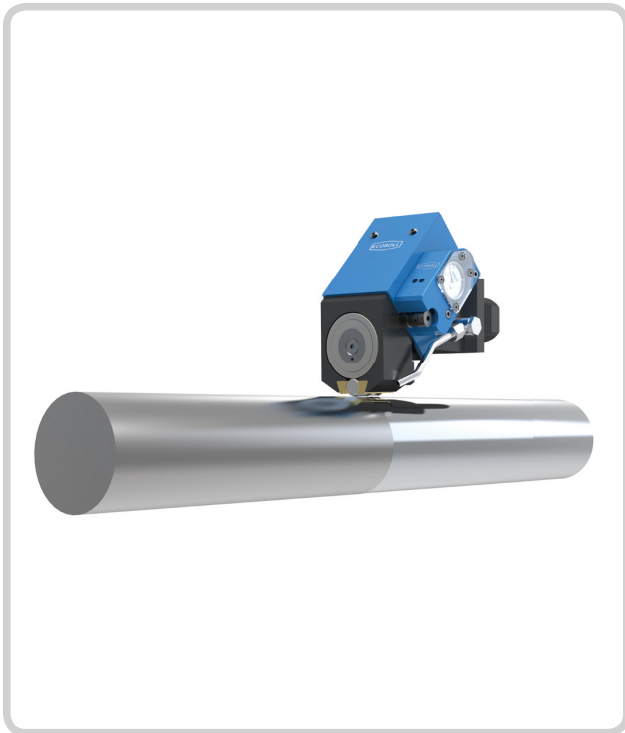
Improve sliding and sealing quality of piston rod to eliminate grinding process





## Solution

Roller Burnishing of piston rod with EG14 tool in preparation for chrome plating



## User benefits

- Reduce coating costs by about **14%**
- **Elimination** of grinding process
- **Considerable improvement** of sealing and sliding properties

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## Details

- Workpiece ..... Piston rod
- Part of ..... Hydraulic cylinder
- Material ..... Forged steel
- Tensile strength ..... 1000 N/mm<sup>2</sup>
- Hardness ..... 40 HRC

## Parameter

- Tool ..... EG14-1-VDI50
- Circumferential speed .... 20 m/min
- Feed rate ..... 0,2 mm/rev.
- Rolling force ..... 5-6 kN