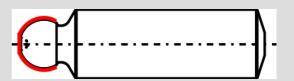
Modern Finishing Technology



Finishing of different ball pins



Superfinishing Machine type 2 SPHK 3 automatic loading and unloading





Rough and final finishing of the ball



Different ball pins

Advantages and machine features

- ♦ No running-in behaviour
- Improvement of surface and shape after turning and hardening
- High life time of cup wheels by means of CNC controlled tools
- Using of CBN and ceramic cup wheels

Ra 0,6 µm

Ra 0,05 µm

Quick change over time

Machining Data

Material steel
Hardness nitrided surface
Coolant Honilo 987
Cycle time 7,5 s
stock removal 0,020 mm

Roughness fine turned finished

Ball shape fine turned

Ball shape fine turned $3 - 5 \mu m$ finished $1 - 1,5 \mu m$ ball diameter tolerance 0,007 mm