

Retrofit instead new purchase

Extend the service life of your existing machines – at low cost!



Have your end working machines been in tireless use for many years thanks to their robustness? To ensure that you can count on reliable production for years to come, we offer you **the professional general overhaul of your Hirscheider or WERAG end working machine.**



Disassembly and subsequent general overhaul



Finished general overhauled end working machine

Possible scope of a retrofit:

In advance:

1. Record the current state
2. Determining the scope of the required overhaul
3. Offer, including timeline and implementation schedule

General:

- ✓ Disassembly and transport for the overhaul in Ellwangen
- ✓ Commissioning and test run in Ellwangen including preliminary acceptance
- ✓ Return transport / installation / commissioning / final acceptance / fabrication supervision at your site

Electrical and control systems:

- ✓ Replacement of all electrical control components with current components
- ✓ Replacement of the control cabinet and operating panel, and much more

Mechanical:

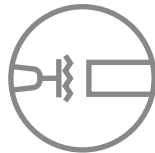
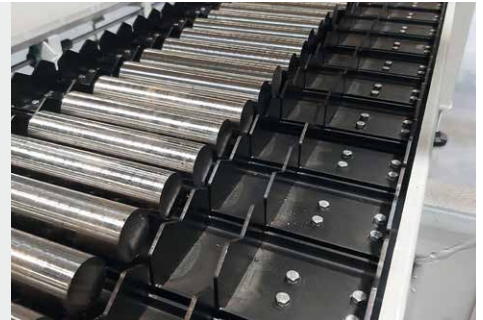
- ✓ Replacement of the machine-bed and slide-bed guide rails, including grinding of the guides
- ✓ Milling of the slide guides and smoothing of the new gliding surfaces, including hand-scraping of the new bed guide rails
- ✓ Overhaul of the processing units, including storage and grinding of the spindles
- ✓ Overhaul of the centring clamping units, the hydraulic system, the pneumatic system, the central lubrication system, the cooling lubrication system – including hose and cable runs

CE-conformity:

- ✓ Risk analysis taking into account current safety requirements in line with the CE standard

Everything from a single source

Thanks to our integration into the **Pütz Group** and the resulting **synergy effects** we are able to offer you not only end processing machines and centres but also the appropriate testing technology to test surfaces and dimensional accuracy and completeness.



Whether for a tailor-made, complete turnkey solution or individual components – we have the experience and the technology you need!

Processing options:

- Spotfacing
- Chamfering
- Turning round ends
- Centring
- OD-turning
- Tapping
- Thread rolling
- Face milling



Processing of:

- Hydraulic cylinder tubes
- Gear shafts
- Cam shafts
- Gear racks
- Crankshafts
- Non rotationally symmetric components

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HIRSCHEIDER GmbH
 Ferdinand-Porsche-Str. 5
 73479 Ellwangen
 GERMANY

info@hirscheider.com
 Phone +49 7961 56499-0
 www.hirscheider.com