



We overhaul them all ...

Professional retrofits and HIRSCHEIDER-WERAG endworking machines

Your Hirscheider endworking machines have been contributing to your company's success for many years and perform tirelessly for you thanks to their robust nature. To ensure that they will continue to do so over the coming years, we offer professional retrofits for your Hirscheider and Hirscheider-WERAG endworking machines.



Before



Disassembly and retrofit



After

Possible scope of a machine retrofit:

General:

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

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
- + Overhaul of the hydraulic system, including hose and cable runs
- + Overhaul of the pneumatic system, including hose and cable runs
- + Overhaul of the central lubrication system, including hose and cable runs
- + Overhaul of the cooling lubrication system, including hose and cable runs

Electrical and control systems:

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

CE-conformity:

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

A Successful Retrofit at Daimler

Overhaul of a WERAG endworking machine at the Mercedes Benz works in Mannheim.

Here, we were able to convince entirely:

„Such interventions show how quickly things get ‘old’ and a year goes by. The system is running smoothly and is very stable in terms of production volumes.“

Peter Galley
 Operating Technician, Maintenance,
 External Company Coordinator for Pre-Cast Machining

„I can only agree with Mr Galley. Thank you very much for the great performance you and your staff have provided. We will gladly contact you again when the time comes. I would also like to thank you for the good co-operation. We are very happy with the work you and your employees have

carried out. There was also a lot of internal praise for the proper and timely implementation.“

Süleyman Yaman
 Operating Technician, Maintenance,
 Maintenance Life Cycle Management

**We will be glad to overhaul
 YOUR HIRSCHEIDER
 and HIRSCHEIDER-WERAG
 endworking machine.**

To do this, we first record the **CURRENT** state of your machine, in order to then be able to determine the scope of the required retrofit. Based on this, we will then send you **a quote, including timeline and implementation schedule.**



A HIRSCHIEDER-WERAG endworking machine after a successful retrofit.

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 endworking machines and centres but also the appropriate testing technology to test surfaces and dimensional accuracy and completeness.

Good reasons for HIRSCHEIDER ...

With more than 35 years of experience in machine tool construction we are experts in special design solutions with a high degree of automation.

**We look forward
to hearing from you!**

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