

Spindle-Repairs and Spindle-Service

Our spindle repairs guarantee the highest quality and top service.

Get your machine ready for maximum productivity. Whether high-frequency spindles or spindle units, our spindle service repairs Diebold spindles and also spindles from other brands and manufacturers. With over 40 years of experience as a spindle manufacturer for the most well-known machine builders, we offer you the best and most professional spindle service. Here's why this is so.



Our well trained service staff repairs your spindles reliably, cost-effectively and, above all, quickly, so that your machines are ready for use again as quickly as possible. Only with professional spindle service is it guaranteed that your spindle will run like a new spindle. This is not guaranteed with every spindle "doctor". If an apparently inexpensive repair does not achieve the desired service life of the spindle, it will cost you twice as much. Therefore: go to the specialist right away. Rely on uncompromising quality.

Diebold has a fully air-conditioned factory, spindle assembling in an air-conditioned clean room and a class 2 CMM room with a temperature constant of 0.2 degrees per meter. We run two Hexagon-Leitz CMM machines of the highest accuracy class. The air conditioning system and measuring equipment is probably unique worldwide in the area of spindle production.

Repairs with warranty

A spindle repair includes replacement of the bearings, rework of the spindle taper, sensor checking, the test run and the documentation of the spindle repair and test run including the test report. All technically relevant parts are checked and, if necessary, renewed or reworked. The repair is done after approval from the customer.

Diebold relies on the „one man - one spindle“ principle. This assembly principle means that a spindle is revised and checked by a single specialist. Each spindle receives an acceptance report which the respective engineer signs with his name and therefore guarantees the professional testing and assembly.



Extensive spare parts warehouse

We stock spare parts for all spindles we manufacture and for many other makes and offer you an emergency service with repairs within 5 working days. Then you have your spindle back, in mint condition with test run, documentation and 1 year guarantee!

Our „Spindle-hotel“ guarantees an exchange service within a day on request and therefore minimizes the downtimes of your machines.



Spare parts warehouse

Equipment and competence

Every repaired and rebuilt spindle goes through various tests. When setting the rotary encoder, positions, speeds and rotation angles are checked. On the test stands developed by Diebold, the spindle is subjected to a test run lasting several hours in which the bearing temperature, concentricity, vibration speed and pull-in force are measured several times. All data is summarized in a detailed test report and delivered to the customer together with the spindle. We guarantee: „Your spindle runs like new!“



Test run and vibration analysis



Cleaned parts



HSK Taper Check



CMM Room class 2

The measuring devices such as Pull Force Testers, Taper Gauges and Runout Test Bars are from the Diebold measuring technology product range. Due to regular in house calibration finest quality and the highest level of accuracy are always guaranteed!



Diebold Gauge for drawbar position setting



Diebold Pull Force Gauges

Diebold Test arbors



Maintenance Set with Pull Force Gauge

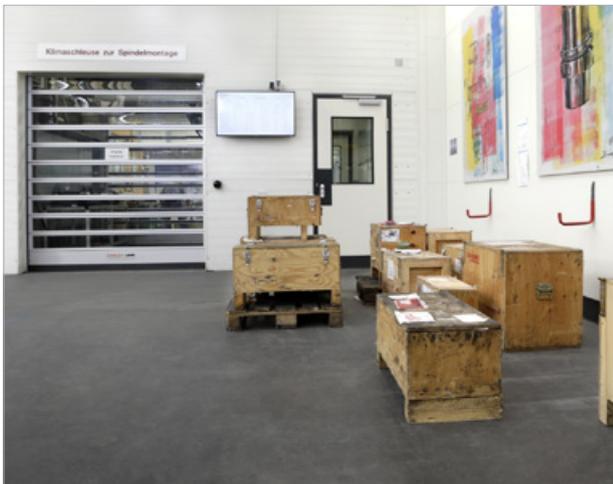


Video:
Diebold mechanical
Pull Force Gauges in action

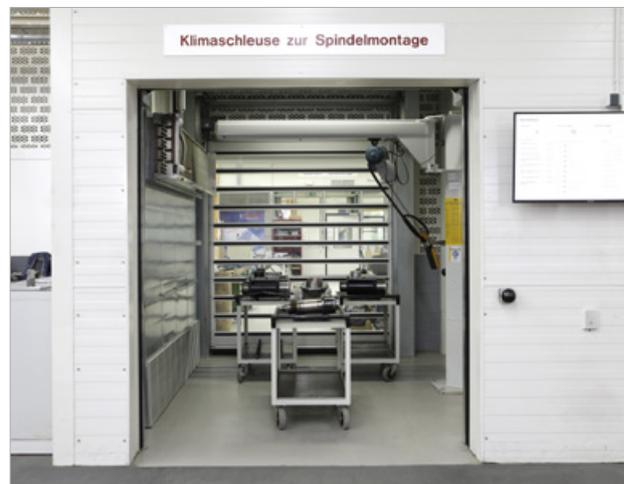
<https://youtu.be/OcX58cOfsY>

Repair process

Incoming spindles are usually covered with chips and full of oil or coolant are first disassembled in a separate room. The individual parts are then washed to “clinically clean” in the washroom. After the parts have been checked, the findings report is created. Defective parts are replaced, non-defective parts are reconditioned and reassembled. The ball bearings are measured and paired with the spindle and the rotating parts are pre-balanced. All electrical components are tested and replaced if necessary. The spindle is then professionally rebuilt and goes through a several hour test run.



Incoming spindles for repair



Waiting area and tempering



Ready for assembly



Dismounting area



Washroom for spindle parts



Cleaned parts



Test stand and test run



Spindle ready for shipping

500 new spindles and 500 spindle repairs go through our spindle department every year. The life cycle file of every spindle manufactured by Diebold or all third-party products that have ever come to us for repair, is kept in the spindle database. In this way, it is always possible to follow up what the report on the spindle was, which parts were installed and what was replaced. Access to the respective measurement protocols from the measurement room is also guaranteed from there. This is a very „lean“ and cost-saving process in which all information about the life cycle of a spindle is available in a matter of seconds.

On-site service

If an on-site service is requested by customers, our service technicians will come to your factory. They will bring all the tools and parts that are needed for on-site repairs. In advance we clarify which spare parts are required so that there is no delay due to missing spare parts.

You will find more information on our website at:

<https://www.hsk.com/service/?L=1>



Diebold Service Technician and service-van



Service case with Pull Force Gauge



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