



**Deuschle**<sup>®</sup>  
S I N C E 1 9 6 6



## Overview of services

### Spindle repair of all manufacturers

- Motor driven spindles
- CNC main spindle units
- Belt driven spindles
- Coupling type spindles
- High frequency spindles
- High-Speed-Cutting spindles
- Grinding spindles (OD/ID)
- Regulation spindles
- Milling spindles for wood working
- Lathe main spindles
- Lathe counter-/sub- spindles
- Sliding head stocks



- Bearings
- Release/Unclamp unit
- Tool taper/cone ISO/BT/HSK
- Clamping system ISO/BT/HSK
- Sensors
- Encoder
- Motor winding / Stator
- 3D measuring
- Test run & Final report

Inhouse-Service

### CNC machine tool service of all manufacturers

- Geometric control/check
- Adjustment tool changer
- Exchange of ball screws
- Adjustment of G7, cycle 19, cycle 800
- Damage diagnosis after collision
- Other component exchange with genuine spare parts
- Repair of CNC controls
- Siemens, Heidenhain, Fanuc

- Spindle take-out and built-in from/into machine
- Spindle condition analysis
- Vibration test analysis
- Grinding of ISO/BT/MK tapers
- Balancing of spindles at customer side
- Other maintenance works on spindle system devices
  - e.g. hydraulic device, converter, controller module, lubrication device, pneumatic unit
- Exchange coolant through unit & clamping system ISO/BT/HSK at customer side
- RENISHAW (R) measurements



Field-Service

# Repair and service of all main spindle units with ball bearings



Experience  
Precision  
Quality

## Balancing according ISO-1940 in 1 or 2 planes

Tool holders  
Tools  
Turbines  
Spindle shafts  
Grinding arbors  
Rotors  
other parts up to 200kg of part weight  
including individual balancing report



## Spindle Hotel

Regular test cycle to maintain the immediate operational readiness of the replacement spindle (grease lifetime)  
Testing & documentation of all spindle functions at a fixed price  
Warranty start will start with delivery date

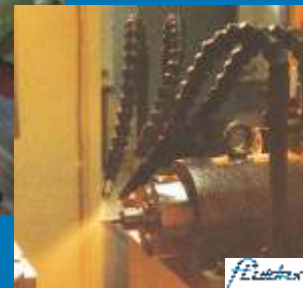


## Accessory Service

Cooling liquid additives  
Fine filtered oil for spindle lubrication  
Precision machining parts (according to your drawing) on request  
New devices like chillers, converters, etc.

TOOL POST GRINDER for lathe machines

 - Low pressure control units



## Consulting Service

Our customer service people and service technicians are there for you  
DEUSCHLE - New Spindle Systems available on request

Online-Webshop  
[www.hasajo.de](http://www.hasajo.de)

**Deuschle Spindel-Service GmbH**  
Onstmettinger Str. 3-5  
72406 Bisingen-Thanheim, Germany  
Tel + 49 7476 934 660  
Fax + 49 7476 934 669  
Email: [info@spindelservice.de](mailto:info@spindelservice.de)  
Internet: [www.spindelservice.de](http://www.spindelservice.de)

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spindle units with ball bearings