

KESSLER Academy

Training program





Become an expert and generate reliable manufacturing quality

We support your experts on-site in order to generate more output during everyday production.

The fascination of the machining process, is the precision of machining surfaces of the highest quality. The smallest motor spindle imperfections can lead to faults.

In our KESSLER certified academy training program your employees will learn in advance how to avoid this and other problems.

Our courses are aimed at machine tool manufacturer service personnel, machine operators, machine tool setup and maintenance personnel, buyers, quality assurance and sales personnel as well as machine tool construction engineers.



KESSLER academy training program

- **Basic course – motor spindle**
Theory and practical application of a motor spindle
- **Advanced course – motor spindle**
Practical procedures of a motor spindle
- **Basic course – rotary tilt table** www.precise-rotation.ru
Theory and practical application of a rotary tilt table
- **Basic course – 2-axis head**
Theory and practical application of a 2-axis head
- **Individual customer seminars**
Tailor-made courses for your individual needs. Would you like to get an individual offer?
Please contact us for details: akademie@kessler-group.biz / +49 7582 809 -0

Basic course – motor spindle

Facts

Duration

- 2 days

Participants

- Target group is maintenance personnel and production planners

Dates

- upon request

Theory and practical application of a motor spindle

- Motor spindle **basics**
- **Function and design** of a synchronous/asynchronous motor
- **Cooling principles**
- **Spindle bearings** and their lubrication
- **Power drawbar** design
- Incorporated **spindle sensor system**
- Operating principle **release unit and rotary union**

Practical seminar

- **Preventive maintenance**
Rotary union according to check lists
- **Tool clamping system and rotary union**
maintenance / checks / setup
- **Lubrication, cooling and sealing air**
checking / lubricating / cleaning
- **Measuring methods** concentricity / axial clearance / clamping force
- **Visual inspection** leakage / running noise / sensor system
- **Early detection of spindle damages**

Advanced course – motor spindle

Facts

Duration

- 1 day

Participants

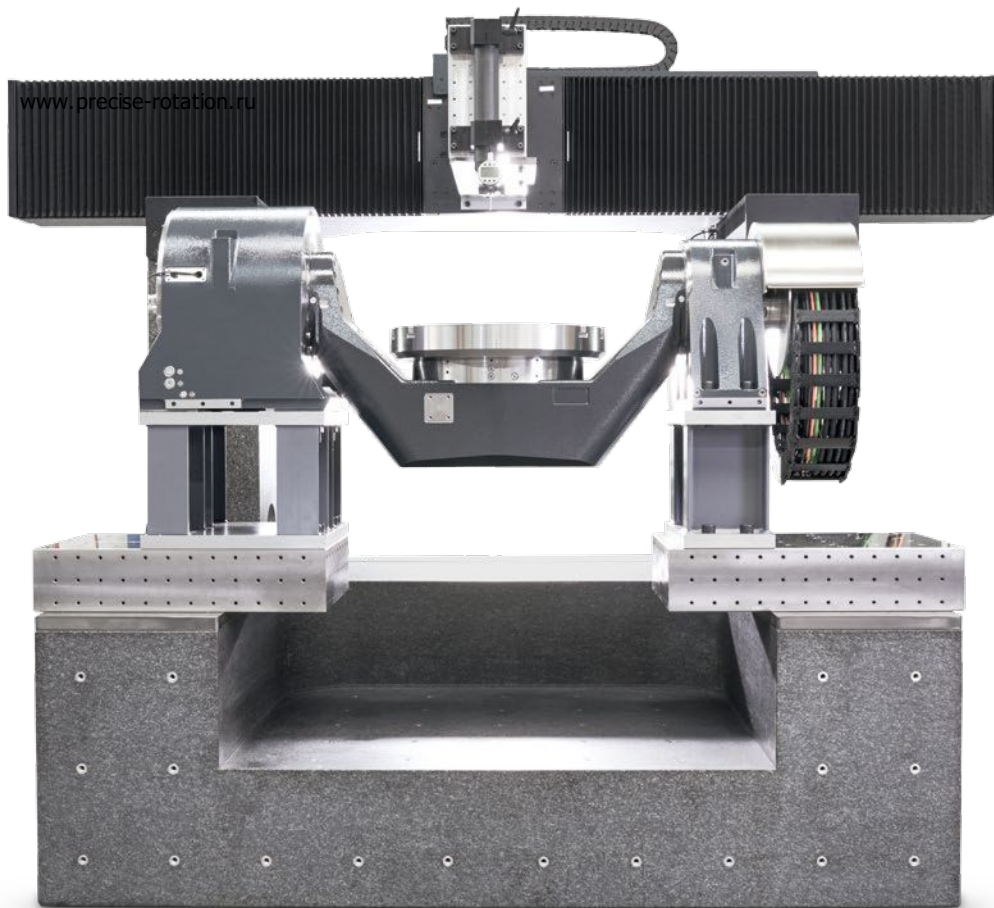
- Participation requirement: Qualified technical staff or mechatronics basic course

Dates

- upon request

Practical procedures of a motor spindle

- **Sensor system**
Precise adjustment of the analogue and proximity sensors
- Adjustment of the **rotary encoder**
- **Replacing the rotary encoder** in the spindle
- Replacing the **power drawbar, clamping set, integrated chuck-head, release unit**
- **Final check** www.precise-rotation.ru
Mechanical check



Rotary tilt table

Basic course – rotary tilt table

Facts

Duration

- 2 days

Participants

- Max. 4 persons

Dates

- upon request

Theory and practical application of a rotary tilt table

- **Design and function** of the rotary tilt table
- **Maintenance and replacement** of worn parts
- Setting up and checking the **rotary encoder system**
- **Fault analysis** and resulting fault costs
- **Inspection accuracy**

Due to the number of different types, this course can only be offered on an individual customer basis.

Basic course – 2-axis head

Facts

Duration

- 3 days

Participants

- Target group is maintenance personnel and production planners

Dates

- upon request

Theory and practical application of a 2-axis head

- **Design and function** of the 2-axis head
- **Maintenance and replacement** of worn parts
- Setting up and checking **the sensor system**
- **Fault analysis** and resulting fault costs
- **Inspection accuracy**

Individual customer seminars on KESSLER products

Facts

Duration

- up to 5 days

Dates

- upon request

Tailor-made courses for your applications

Please contact us if you wish to do a course which meets your requirements.

We will be happy to discuss your tailor-made seminar contents which **will exactly meet your needs**.



Spindle maintenance case

The KESSLER service kit includes everything you need for **spindle checks and maintenance** – compatible with your **SK-40/50- or HSK-63/80/100 spindle!**

Case content at a glance

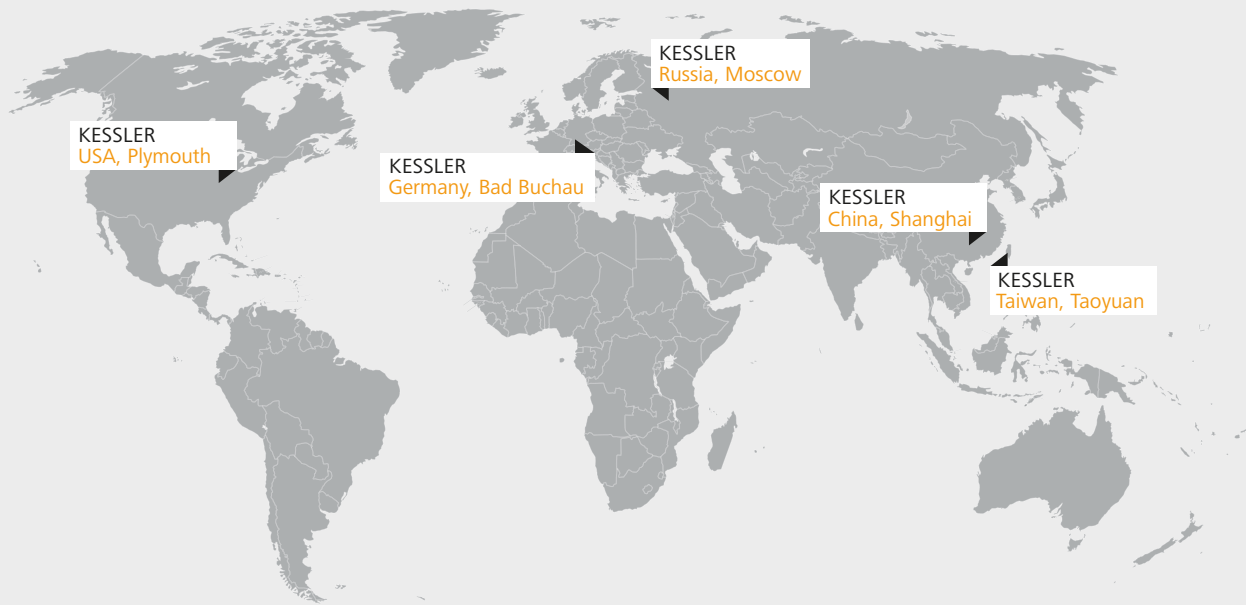
- Plastic case with fittings
- Torque wrench
- Special tool M8x160
- Different hexagons with T-grip
- Collect chuck key
- Open-ended spanner
- Draw bolt
- Flat nose pliers
- Long (landscape) folder
- Lubricating grease
- Cone cleaner
- Metaflux
- Measuring tripod
- Dial test indicator
- Precision indicator measuring gauge
- Test mandrill
- Depth gauge
- Powercheck device
- Powercheck adapter
- Operating Instructions



Order

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Operating Worldwide for our Customers



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www.precise-rotation.ru