

KESSLER Academy

Training programmes





Become an expert and generate dependable manufacturing quality

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

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

In our KESSLER certified academy training programme, your employees will learn how to prevent problems occurring in the first place.

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 programme

- **Basic course – motor spindles**
Theory and practical application of motor spindles
- **Advanced course – motor spindles**
Practical procedures for maintenance and minor repairs of motor spindles
- **Basic course – rotary tilt tables**
Theory and practical procedures for maintenance and minor repairs of rotary tilt tables
- **Basic course – 2-axis heads**
Theory and practical procedures for maintenance and minor repairs of 2-axis heads
- **Individual customer seminars**
Tailor-made courses for your individual needs. For an individual offer, please contact us for details: akademie@kessler-group.biz / +49 7582 809-180

Basic course – motor spindles

Facts

Duration

- 2 days

Target group

- Maintenance personnel and production planners

Dates

- On request

Theory and practical application of motor spindles

- Motor spindle basics
- Design and function of a synchronous/asynchronous motor
- Cooling principles
- Power drawbar design
- Incorporated spindle sensor systems
- Operating principle of the release unit and rotary union

Hands-on seminar

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

Advanced course – motor spindles

Facts

Duration

- 1 day

Target group

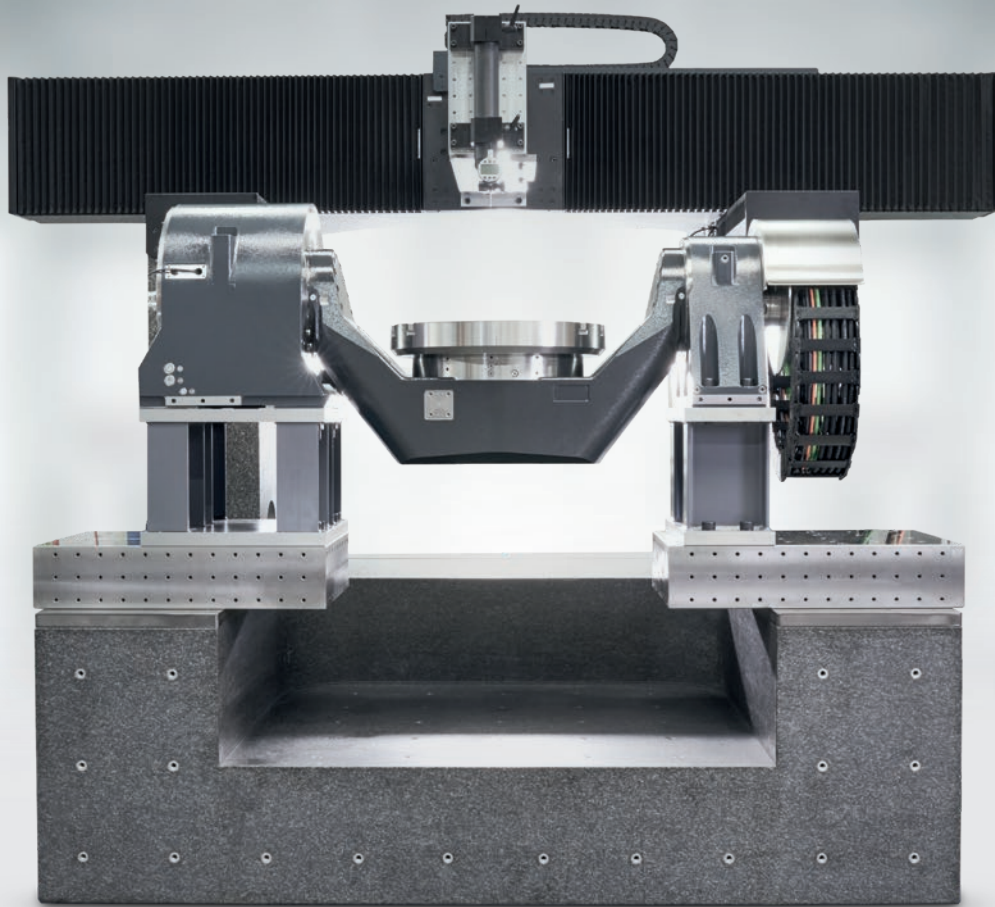
- Qualified technical staff or mechatronics

Dates

- On request

Practical procedures for maintenance and minor repairs of motor spindles

- 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 inspection
Inspection of electrical and mechanical functions



Rotary tilt table

Basic course – rotary tilt tables

Facts

Duration

- 2 days

Target group

- Qualified technical staff or mechatronics

Dates

- On request

Theory and practical procedures for maintenance and minor repairs of rotary tilt tables

- Design and function of the rotary tilt table
- Maintenance and replacement of wear parts
- Fault analysis
- Setting up and checking the rotary encoder system
- Checking the geometry

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

Basic course – 2-axis heads

Facts

Duration

- 3 days

Target group

- Maintenance personnel and production planners

Dates

- On request

Theory and practical procedures for maintenance and minor repairs of 2-axis heads

- Design and function of the 2-axis head
- Maintenance and replacement of wear parts
- Fault analysis
- Setting up and checking the sensor system
- Checking the geometry

Individual customer seminars on KESSLER products

Facts

Duration

- Up to 5 days

Dates

- On request

Tailor-made courses for your applications

Please contact us if you would like us to put together a bespoke course for your specific requirements.

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



Spindle maintenance case

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

Case content

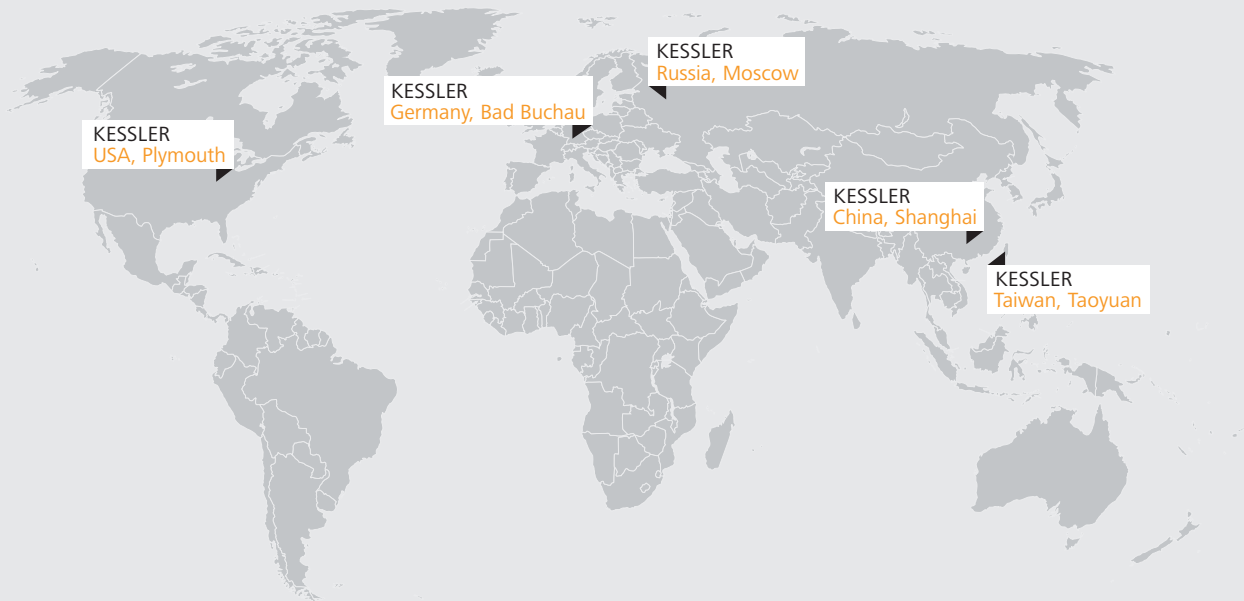
- Torque wrench
- Special tool M8x160
- Various hexagon drives with T-grip
- Collect chuck key
- Open-ended spanners
- Draw bolt
- Flat nose pliers
- Landscape folder
- Lubricating grease
- Cone cleaner
- Metaflux
- Measuring tripod
- Test dial indicator
- Precision indicator measuring gauge
- Test mandrill
- Depth gauge
- Powercheck device
- Powercheck adapter
- Operating Instructions



Order at

Tel. +49 7582 809-180
akademie@kessler-group.biz

Operating Worldwide for our Customers



Germany

Franz Kessler GmbH
 Franz-Kessler-Straße 2
 88422 Bad Buchau, Germany
 Tel.: +49 7582 809 - 0
 Fax: +49 7582 809 - 170
info@kessler-group.biz

USA

KESSLER USA Inc.
 44099 Plymouth Oaks Blvd.
 Plymouth, MI 48170, USA
 Tel.: +1 734 404 0152
 Fax: +1 734 404 0153
info.usa@kessler-group.biz

Russia

KESSLER East Ltd.
 Dorogobuzhskaja str., 14, bld. 6
 121354, Moscow, Russia
 Tel.: +7 495 204 2450
info.ru@kessler-group.biz

Taiwan

KESSLER Taiwan Ltd.
 No.347, Sec. 1
 Nanshan Rd
 Luzhu District
 Taoyuan City 33861
 Taiwan (R.O.C.)
 Tel.: +886 3 326 2256
 Fax: +886 3 355 5014
info.tw@kessler-group.biz

China

**KESSLER (Shanghai)
 Spindle Service Co., Ltd.**
 Building #12
 No.318 Yuanshan Rd
 Minhang District
 201108 Shanghai, China
 Tel.: +86 21 6489 7034
 Fax: +86 21 6489 7134
info.cn@kessler-group.biz