

**NEW**KELLENBERGER K100
with center distance
1700 mm

KELLENBERGER K100

Platform concept offering the widest possible range of configuration options

 **User-friendly, ergonomic design**

 **Simple operation via intuitive touchscreen interface**

New technical highlights:

- Workpiece weight capacity up to 200 kg (Center height up to 250 mm)
- For workpieces up to 1700 mm

Technical highlights proven over 350 times:

- Fanuc CNC system with 19" touchscreen
- Temperature stability thanks to integrated cooling circuit
- Innovative compact wheelhead with 10 versions and 11.5 kW (max. 15.5 kW) direct drive output
- Collision-free grinding configuration of 3 tool positions and one measuring position on wheelhead
- Measuring sensor configuration without tilting mechanism for increased measurement precision
- High dimensional precision for non-circular grinding thanks to direct drive at the workpiece

- Replacement of belt-driven internal grinding spindles with lower-cost motor spindles
- Large capacity with 200 mm or 250 mm centre height and up to 200 kg workpiece weight
- Dressing concept with optimized, generous stroke ratios
- Open system for automation, electrical driving unit for sliding door
- Integrated lifting system for changing grinding wheels and tailstock installation
- Servicing-friendly machine design

KELLENBERGER K100



Base:

- FEM-optimised cast bed
- Optimised slideway on Z-axis
- Linear guide on X-axis

Modular wheelhead with high-precision B-axis:

10 compact wheelhead versions for optimal machine design based on the parts to be processed. Diagonal configuration and new collision-free universal design with 500 mm grinding wheel diameter.

Workhead and tailstock:

- Standard design with 100 kg workpiece weight
- Strengthened version with max. 200 kg
- High torque for non-circular grinding
- Synchronous tailstock including automatic fine adjustment for production applications

BLUE Solution software:

- **Intelligent data entry:** A control system with plausibility monitoring supports the operator and reports incorrect entries at an early stage.
- **Simple machine configuration:** Clear division into main areas (set-up, programming, production) and secondary areas (diagnostics, settings, functions) makes it easier to set up new production processes.
- **Complex programs:** Creation of complex grinding programs without ISO code knowledge, which reduces the entry hurdles for users.
- **CAD data integration:** Direct import of workpiece information from CAD data for automatic determination of collision-free grinding positions and optimum technology data.
- **gSHAPE:** Workpiece-related graphical programming enables the visual and intuitive creation of machining programs.

Special features:

- **Drive power:** The drive power is S1 = 11.5 kW, S6 = 15.5 kW.
- **Automation:** Various automation solutions for any components
- **Z2 axis:** for faster set-up of workpieces between centers (also in relation to fully automated machines).

Technical data:

Distance between centres	mm	600 / 1000 / 1700
Centre height	mm	200 / 250
External grinding power	kW	11.5
Weight max.	kg	200
Z-axis travel	mm	750 / 1150 / 1800
X-axis travel	mm	370
Space requirements (length x width)	mm	3000 x 3600 / 3400 x 3600 / 4800 x 3600

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