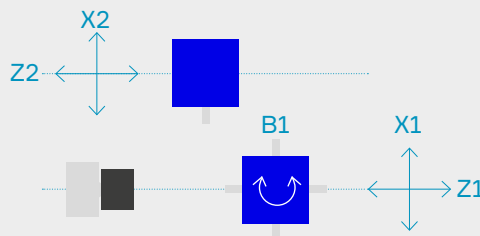


SIMULTANEOUS INTERNAL & EXTERNAL GRINDING MACHINE

IED



DESCRIPTION

The IED simultaneous grinding machine provides the fastest production times of any grinding machine in the Danobat-Overbeck range.

Given workpiece characteristics that permit simultaneous grinding, the grinding tools can be mounted on two separate cross-slides. Therefore, internal and external

diameters and faces can be ground simultaneously with the highest quality.

To maximise the productivity of the IED it is typically provided with automatic loading and unloading systems, including solutions with robots, gantries, etc.

IED. SIMULTANEOUS INTERNAL & EXTERNAL GRINDING MACHINE

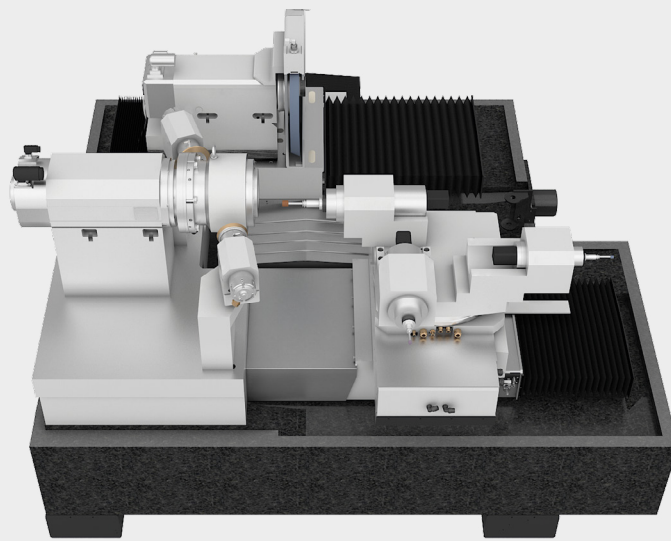
IED RANGE

IED-400

Max. internal grinding diameter	300 mm
Max. external grinding diameter	250 mm
Max. workpiece swing diameter	300 mm
Max. workpiece length incl. clamping system	250 mm
Max. workpiece weight incl. clamping system	80/100//180/300 kg/Nm
X1- and Z1-axis stroke	220/550* mm
X2- and Z2-axis stroke	320/450* mm

* Reference measurement may vary

Typical IED grinding applications include gears and injection components, pump elements, tool holders (SK/HSK) or machine parts in general.



CORE TECHNOLOGY

Natural granite machine bed

- Machine bed made of natural granite, the optimal material for achieving the highest accuracy and the best surface quality.
- Natural granite offers considerable advantages over cast iron or polymer composites in terms of precision for many grinding applications.

Linear motors

- Linear motors ensure highly dynamic transmission of power. This means, for example, that precise results can be obtained in non-round grinding.
- Fast, precise movements assure the highest productivity and quality.
- No wear parts, maintenance-free.
- High precision through active cooling.

Workheads

- Danobat-Overbeck design, built in house components for highest precision and a long life.
- Modular designs for best application.
- Selected materials and designs for stable temperature performance.
- Easy integration of clamping cylinders.

Grinding spindles

- Top quality spindles.
- High-precision bearings with oil-air lubrication or constant lifetime grease lubrication.
- Selected materials for stable temperature performance, driven by a built-in motor.
- Cutting speeds automatically controlled with frequency drives.
- Independent temperature control and efficient liquid-cooling system.