



**DANOBAT  
OVERBECK**

# GRINDING SOLUTIONS FOR LARGE WORKPIECES

## ILD

### ILD GRINDING SOLUTIONS FOR LARGE WORKPIECES

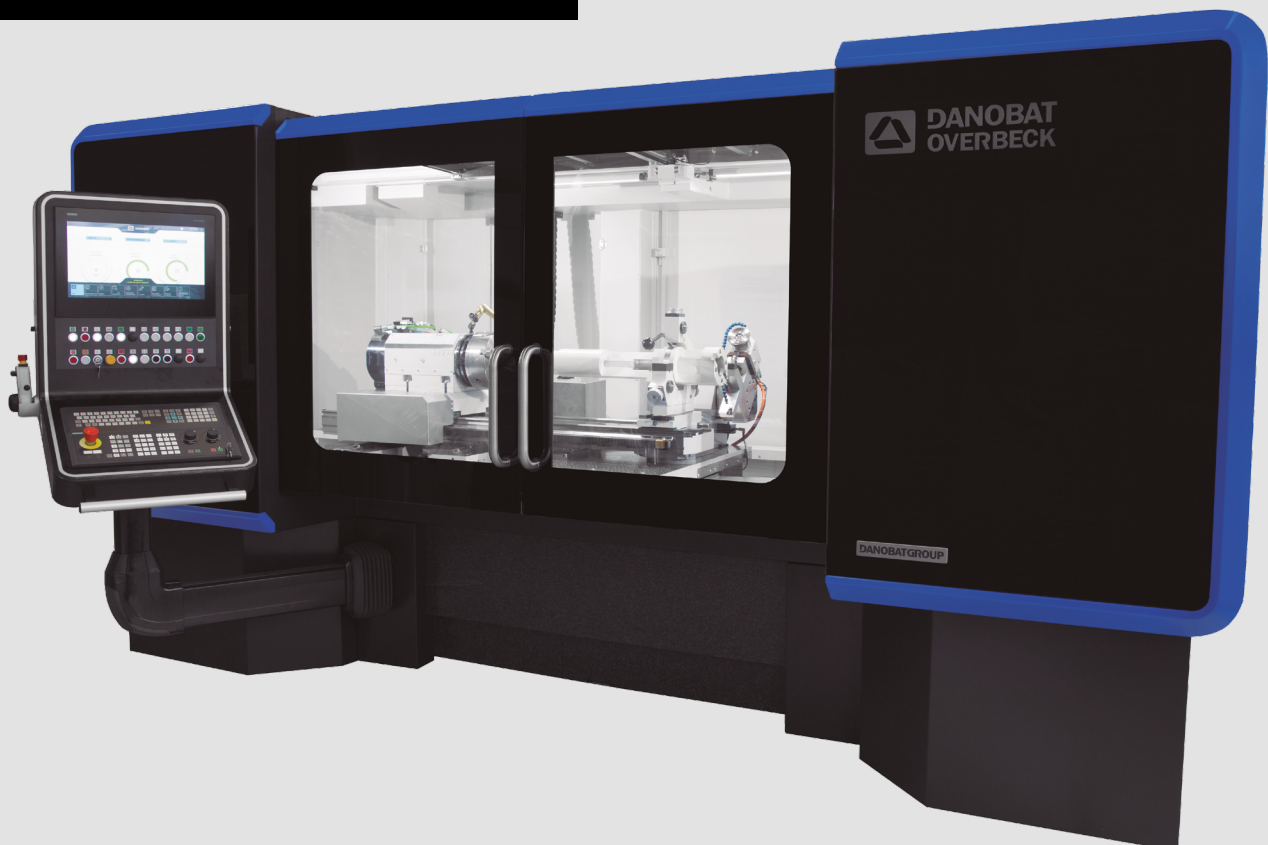
The ILD internal universal grinding machines provide high-precision tool machining for internal, external and face grinding of large workpieces, until 1300 mm long (ILD 500) or until a work swing over table of 760 mm.

Depending on the requirements, the machines can be equipped with up to four grinding spindles and a measuring probe.

Linear motors ensure a highly dynamic transmission of power and precise results even for the most complicated operations as non-round or thread grinding for example.

The user-friendly grinding software with high performance program templates facilitates quick and easy workpiece changeover. The meticulously engineered ergonomic machine design completes the machine package.

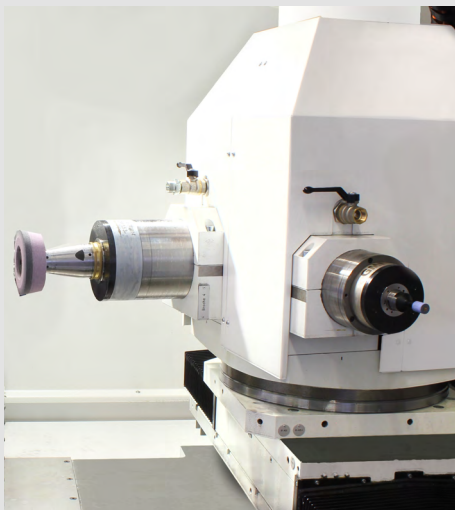
Spindle housings, shafts, tool holders, roller bearings, hydraulic components and machine tool components can be machined with the ILD series using the latest technology.



## ILD TECHNICAL DESCRIPTION

TECHNICAL CHARACTERISTICS (*)		ILD-400	ILD-500	ILD-700	ILD-700 U
Workpiece swing	mm	600	600	700	760
Swivelling range B axis	°	+20/-10	+20/-10	(opcional) +25/-25	+25/-25
Workpiece length (incl. clamping tool)	mm	800	1300	500	500
Grindable bore length	mm	250	250	400	400
Grindable external length	mm	150	150	400	400
Workpiece weight (incl. clamping tool)	kg	500	500	500	500
X and Z axis stroke	mm	425/475	425/475	700/700	425/700 eje U 700

(\*) Based on customers requirements, other machine capacities & configurations could be taken into account.



- Precision internal universal grinding machine series specially designed for the machining of larger dimension workpieces with up to four grinding spindles for internal, external, face and other grinding applications.
- W axis for grinding long workpieces.

### Rigidity, stability and precision

Precision as a basis: all DANOBA-TOVERBECK grinding machines have a basic equipment, which provides a perfect platform for high-precision applications.

- Assembly groups such as motor spindles, axes etc. are pre-assembled in the factory-owned and temperature controlled room.
- The natural granite machine base guarantees the highest thermal and dynamic stability.
- All axes as well as the spindle revolver are direct driven.

### Expansion of the machine concept for demanding grinding tasks

- Grinding spindle revolver: The positioning of the grinding spindles takes place via an integrated and maintenance-free torque motor and with a high-precision encoder.
- Rotating dresser with monitoring during the dressing process.
- Fluid sensor with contact detection for an ideal grinding process.
- Measuring probe for axial and radial measurements.
- C axis for high-precision non-round machining.
- DANOBA-TOVERBECK operator software with 2D / 3D simulation.

Grinding trials with special requirements or for presentation purposes can be performed in our state of the art test centre and measuring laboratory. Here, high precision grinding machines, tools, workpieces, high precision measuring devices and experienced machine operators come together to develop the most effective processes.

Optionally the machine package can also be expanded with automatic loading and unloading systems, including solutions with robot, gantry, etc.

