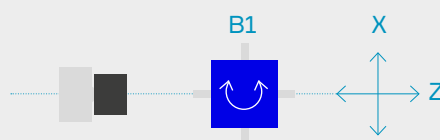


INTERNAL, EXTERNAL AND FACE GRINDING MACHINE

ID



DESCRIPTION

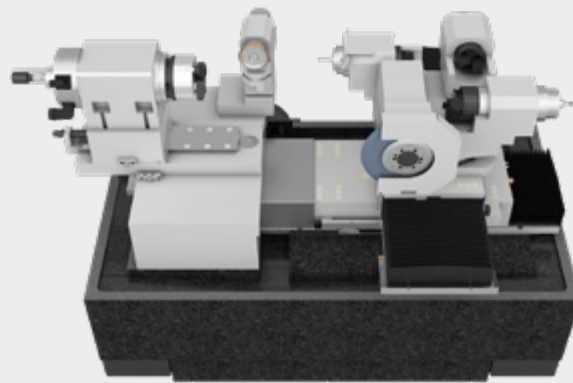
ID series machines provide high-precision machining for internal, external and face grinding of workpieces such as bearing rings, gears wheels, cutting tools, injection elements, non-round discs or hydraulic parts.

Individual workpieces or high volumes of production can be ground with great efficiency without compromising versatility.

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

ID. INTERNAL, EXTERNAL AND FACE GRINDING MACHINE

ID RANGE		ID-200	ID-400
Max. internal grinding diameter	mm	100	200
	in	3.94	7.87
Max. internal grinding length	mm	100	200
	in	3.94	7.87
Max. workpiece swing diameter	mm	215	560
	in	8.46	22.04
Max. workpiece length incl. clamping system	mm	200	400
	in	7.87	15.74
Max. workpiece weight incl. clamping system	kg/nm	40/45	80/100//180/300
	lb/ft-lb	88/33	175/70//400/220
X and Z axis stroke	mm	400/200	425/475
	in	15.75/7.87	16.73/18.70



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.