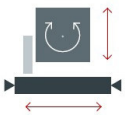
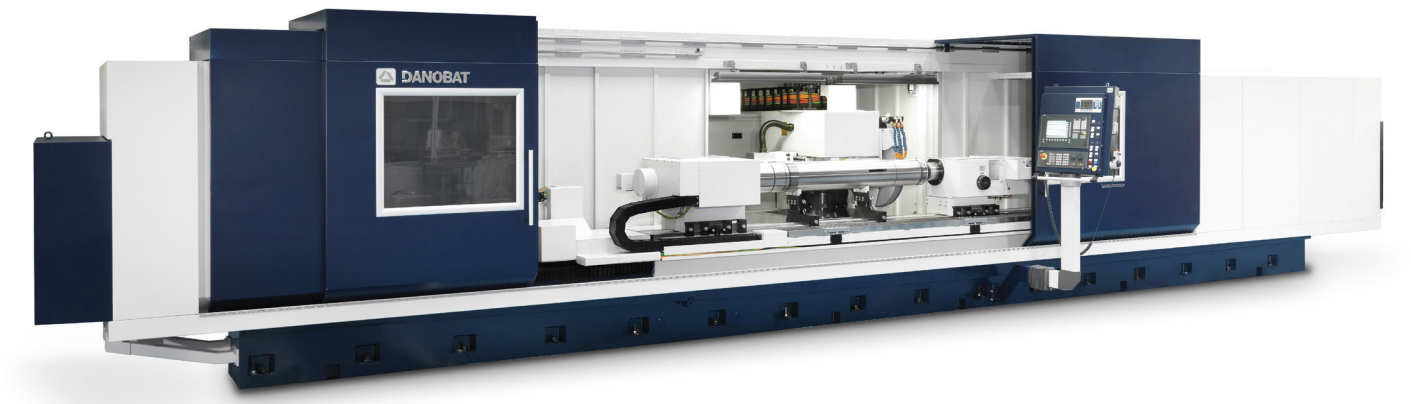
DANOBAT

HG HEAVY DUTY GRINDING MACHINES

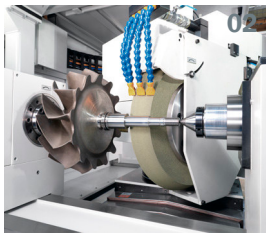


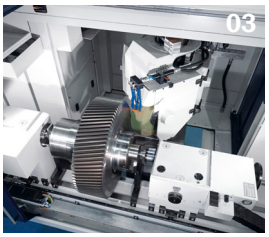


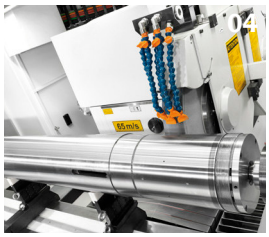
This moving table grinding machine range has been designed to fulfil the requirements of a wide range of applications that combine external, internal, face and taper grinding of components such as: transmission shafts, electric motor shafts, gas and wind turbine shafts, railway shafts, machine tools shafts, landing gear components, etc. Depending on the application corundum, CBN or diamond wheels can be used.

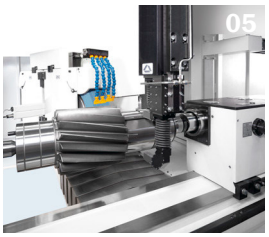
The machine base and sub-assemblies are made of stabilized pearlitic cast iron. HG grinders can be equipped with a wide range of wheelhead configurations: straight, angular and “B”-axis which is driven by an integrated torque motor. Wheels are assembled on hydrostatic bearing spindles,roller bearing or on DANOBAT designed electric-spindles.

In order to obtain the maximum machine performance HG machines can be equiped with in-process measuring systems, automatic wheel balancing system incorporating gap and crash, axial positioning system and taper correction, etc.







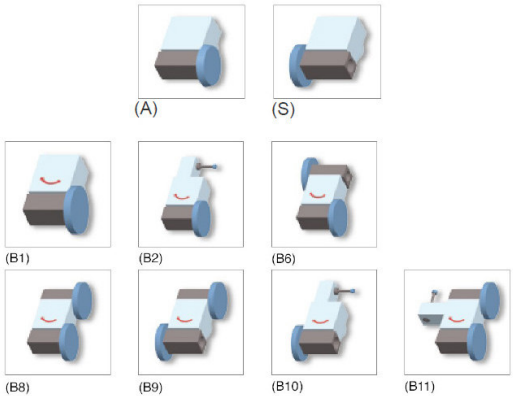


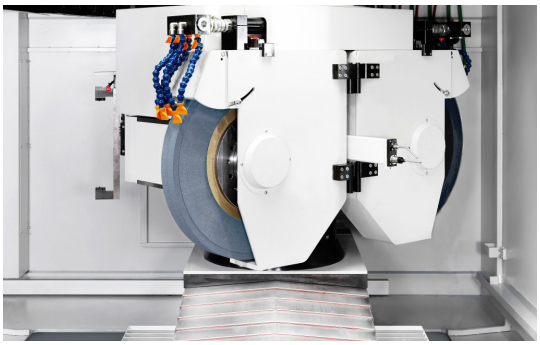
01 External grinding of extrussion screw | **02** External grinding of turbine propeller | **03** Face grinding of wind energy shaft| **04** External grinding of spindle | **05** External grinding and measuring of transmission shaft | **06** External grinding and measuring of printing roll | **07** Grinding of railways shaft in a grinder with double grinding wheelhead

HG | UNIVERSAL GRINDING MACHINES

TECHNICAL CHARACTERISTICS		HG-62	HG-72	HG-92
Distance between centres (max.)	mm (in)	2000 (78.7)	4000 (157.4)	5000 (196.8)
Diameter swing (max.)	mm (in)	440 (17.3)	840 (33)	1300 (51)
Weight between centres (max.)	kg (lb)	500 (20)	1500 (3307)	5000 (11023)
Grinding wheel diameter (max.)	mm (in)	760 (30)	915 (36)	1060 (40)
Wheelhead power (max.)	kW (hp)	30 (40)	45 (60)	45 (60)
Wheel peripheral speed (max.)	m/s (f/m)	45/60 (9000/12000)	45/60 (9000/12000)	45/60 (9000/12000)

MACHINE TECHNICAL DESCRIPTIONS





Ergonomics-Modularity-Aesthetics

- Updating the design to the customer requirements
- Wide range of wheelhead arrangements for OD and ID grinding operations
- Single or double wheelhead configuration machine
- End-users security, accessibility and flexibility

Rigidity, stability and precision

- One piece stabilized pearlitic cast iron machine base and sub assemblies. Greater rigidity
- Machine V and flate guides are hand scraped to ensure positioning accuracy and repeatability, correct surface contact and lubrication retention
- All axes driven through the centre of gravity, eliminating vibration
- Stress relieve tests
- Coolant circulation on the machine surfaces

DANOBAT latest high technology

- DANOBAT high frequency electro spindles with thermal control, improving grinding power and accuracy, minimizing vibrations
- “B”-axis with integrated high precision torque motor for high positioning accuracy giving zero backlash, less maintenance and longer product life
- Multi diameter in-process / post-process measuring systems MDM-300 & MDM-500
- Additional contact or non contact in/post process measuring devices
- Grinding of all type of materials: HVOF, crystal, tungsten carbide, etc.

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