



DANOBAT

UNIVERSAL HEAVY-DUTY GRINDING WITH MOVING TABLE

HG

HG

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This horizontal cylindrical 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 grinding machines 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 equipped with in-process measuring systems, automatic wheel balancing system incorporating gap and crash, axial positioning system and taper correction, etc.

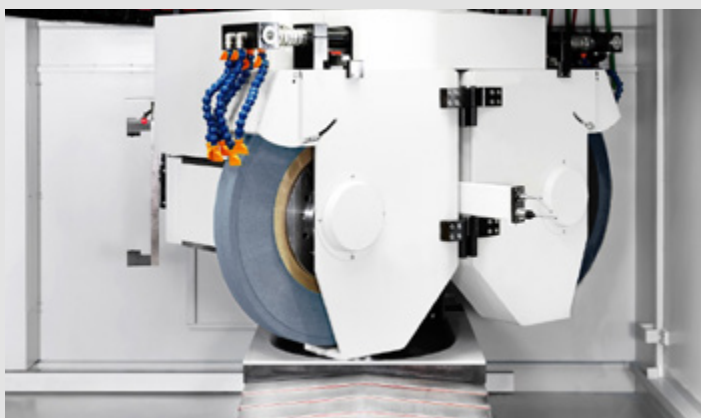
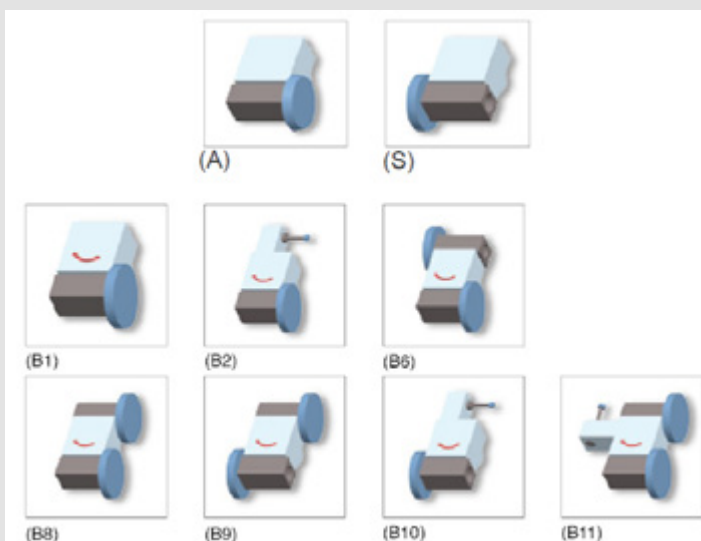


HG TECHNICAL DESCRIPTION

TECHNICAL CHARACTERISTICS (*)		HG-62	HG-72	HG-92
Distance between centres	mm	2000	4000	5000
Diameter to be ground	mm	440	840	1040
Weight between centres	kg	500	1500	5000
Grinding wheel diameter (**)	mm	760	915	1060
Wheelhead power	kW	30	45	45
Wheel peripheral speed	m/s	45/60	45/60	45/60

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

(**) Depends on wheelhead configuration



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.

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.

HG APPLICATION

EXTRUSSION SCREW



TURBINE PROPELLER



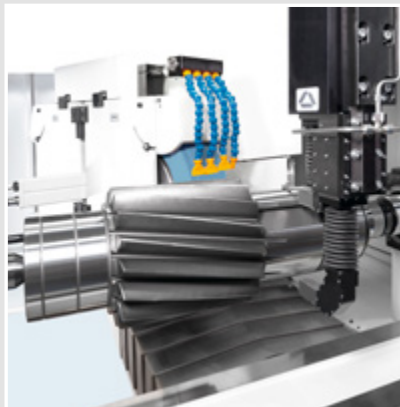
WIND ENERGY SHAFT



SPINDLE



TRANSMISSION SHAFT



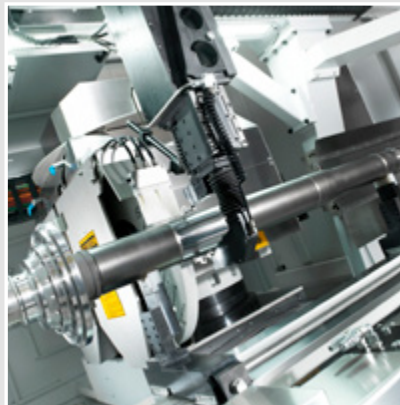
TURBINE SHAFT



RAILWAYS SHAFT



TURBINE SHAFT



COMPRESSOR ROTOR

