

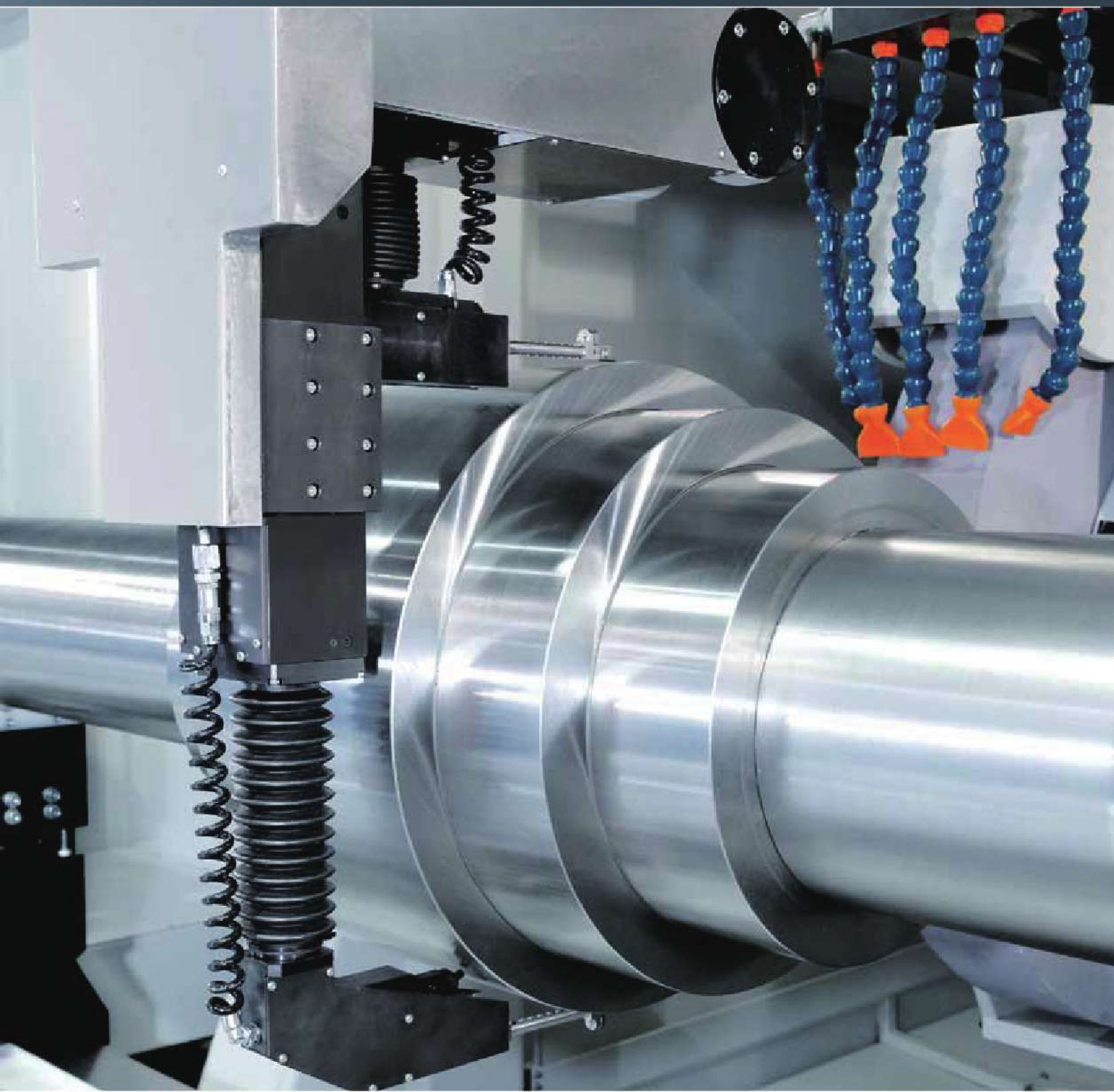


DANOBAT

HG/WT

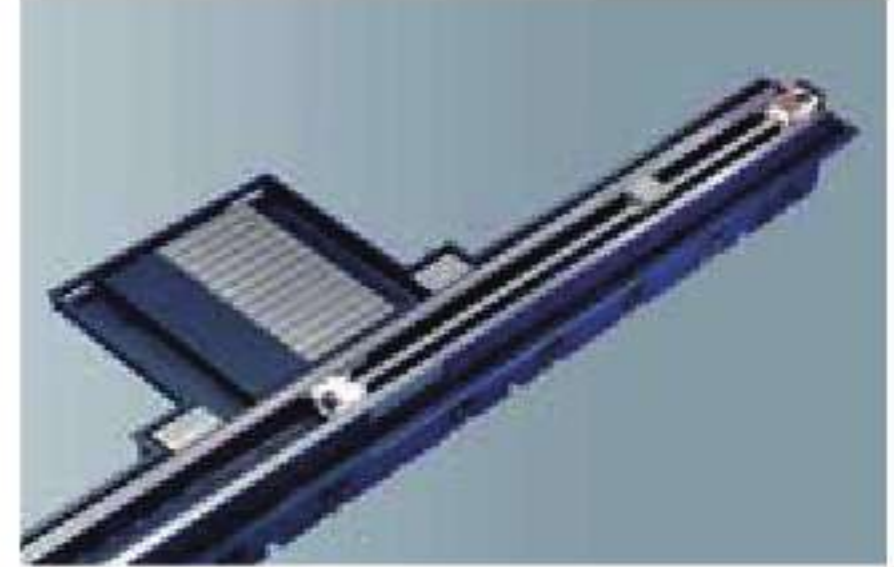
GRINDING SOLUTIONS FOR
MEDIUM AND HEAVY PARTS

中型和大型零件磨削解决方案



DANOBAT ENGINEERING & TECHNOLOGY

达诺巴特工程和技术



State of the art machines 先进的设备

- Stability & dynamics for the maximum rigidity.
- Design by finite elements method.
- 稳定性和动态性用于高刚性
- 有限元法设计

Ergonomics-modularity-aesthetics 人机工程-模块化-机械美学

- Updating the design to the customer requirements.
- End-users security, accessibility and flexibility.
- 先进的设计满足用户的需求
- 用户的安全性, 易操作性和柔性化

Rigidity, stability and precision 高刚性、高稳定性和高精度

- One piece perlitic cast iron machine base and sub assemblies. Greater rigidity.
- Machine alignments are hand scrapped to ensure positioning accuracy and repeatability. Correct surface contact and lubrication retention.
- All axes driven through the centre of gravity. Eliminating vibration.
- 整体珠光体铸铁床身和主要部件确保高刚性
- 设备导轨采用手工刮研, 确保定位精度和重复定位精度, 保持良好的表面接触和润滑。
- 所有轴驱动通过重力中心, 减少震动。

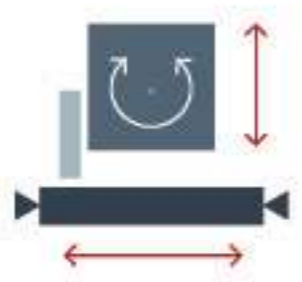


DANOBAT latest high technology 达诺巴特的最新技术

- DANOBAT high frequency electro spindles with thermal control, improving grinding power and accuracy, minimizing vibrations.
- "B"-axis with integrated high precision torque motor giving less maintenance, longer product life and zero backlash.
- Multi diameter in-process / post-process measuring systems MDM 300 & MDM 500.
- All the critical sub-assemblies are carefully designed and produced; with a strict 3D measuring inspection procedure and then assembled in a CLEAN ROOM environment with humidity and temperature control $\pm 1^\circ$.
- Reliable and tested designs to ensure optimum equipment performance.

- 达诺巴特带温度控制的高频电主轴, 提高了磨削功率和精度, 减少了震动
- B 轴带内装式高精度扭矩电机, 免维护, 寿命长, 无反向间隙。
- 多直径在线测量系统MDM 300 & MDM 500
- 所有的关键零部件经过精心设计和制造, 严格的三坐标测量, 并在温度控制达到 $\pm 1^\circ$ 的洁净环境中装配
- 可靠的和经过检测的设计确保设备实现高性能

HG-62/72/92



Medium and heavy duty grinding machine range with moving table configuration

- Ergonomic, rigid and stable design for higher accuracy.
- Machine base and sub-assemblies made of stabilized perlitic cast iron.
- Wide range of wheelhead configurations, straight, angular and "B"- axis with integrated torque motor; direct transmission with hydrostatic or DANOBAT electro spindles.
- Conventional, CBN and diamond grinding wheels.
- DANOBAT multi diameter absolute in-process / post-process measuring system: MDM 300 & MDM 500.
- Ideal machine for high demanding sectors such as transmissions, electrical generators, aerospace, railway industry, printing industry, cold mills, automotive industry, industrial vehicles, spindles for mechanical engineering applications, etc...

工作台移动式的中型和重型磨床

- 用于高精度磨削的人机工程性、高刚性和稳定性。
- 床身和主要部件采用稳定的珠光体铸块。
- 砂轮头架有多种形式，直砂轮头架、角度砂轮头架和带有内置扭矩电机B轴，直驱静压主轴或电主轴。
- 常规砂轮、CBN砂轮和金刚石砂轮。
- 达诺巴特适应不同直径的在线测量系统MDM 300 & MDM 500。
- 用于加工高技术要求行业，如传动系统、电机、航空、铁路工业、印刷机械、冷轧辊、汽车工业、工程机械、用于机械行业的轴类等。



Turbine rotor / 涡轮转子

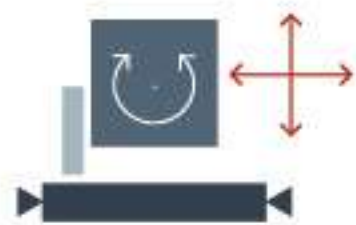


Rotor shaft / 转子轴



Wind Energy shaft / 风力发电机组的轴类零件

WT-62/72/92



Medium and heavy duty grinding machine with cross slide configuration

- Compact, flexible and modular cross-slide structure to minimize the machine foot print.
- Machine base and sub-assemblies made of stabilized perlitic cast iron.
- Wide range of wheelhead configurations, optional "B"-axis and direct transmission with hydrostatic or DANOBAT electro spindles.
- Optional double wheelhead to work simultaneously and reduce the machining cycle time.
- DANOBAT multi diameter absolute in-process / post-process measuring system MDM 300 & MDM 500.
- Gap bed option to allow for large diameter swing components.
- Machine especially designed for heavy parts such as energy generation shafts, printing rolls, cold mills, industrial vehicle rear axle, etc....

砂轮头架移动式的中型和重型磨床

- 紧凑、柔性化和模块化，固定工作台结构，减少设备占地面积
- 床身和主要部件采用稳定的珠光体铸铁
- 砂轮头架有多种形式，可选配B轴和直驱的电静压主轴。
- 可选配砂轮头架同时加工零件，提高加工效率
- 达诺巴特适应不同直径在线绝对测量系统MDM 300 & MDM 500.
- 带空隙的床身选项用于大回转范围的零件。
- 设备主要用于大型零件，如能源动力等轴类零件，印刷机滚筒、冷轧辊、工程机械后轴等。



Boring spindle / 镗杆



Printing roll / 印刷机滚筒



Energy shaft / 能源行业轴类零件

MAIN SECTORS / 主要应用行业

ENERGY AND AEROSPACE 能源和航空



TRANSMISSIONS 传动



RAILWAY AND INDUSTRIAL VEHICLE SECTOR 铁路和工程机械



CAPITAL GOODS 通用机械



		MOVING TABLE 工作台移动			MOVING WHEELHEAD 砂轮头移动		
		HG-62	HG-72	HG-92	WT-62	WT-72	WT-92
SPECIFICATIONS 技术规格							
Max. distance between centres 两顶尖中心距	mm	2000	4000	5000	2000	8000	10000
Max. diameter to be ground 最大磨削直径	mm	440	640	1000	440	640	1500
Max. weight between centres 两顶尖最大承重	kW	500	1500	5000	500	1500	8000
Max. grinding wheel diameter 最大砂轮直径	mm	760	915	1060	610	1060	1220
Max. wheelhead power 最大砂轮头架功率	mm	30	45	45	15	45	45
Max. wheel peripheral speed 最大线速度	mm	45/60	45/60	45/60	45/60	45/60	45/60

* Based on customers requirements, other machine configurations could be taken into account.
Weitere Maschinenkonfigurationen können entsprechend den Kundenanforderungen berücksichtigt werden.

SPECIALIZED MULTI-TECHNOLOGICAL SOLUTIONS

特殊的多技术解决方案



Vertical grinding machines.
立式磨床



Centerless grinding machines.
无心磨床



Horizontal and vertical turning machines.
卧式和立式车削中心



Bandsawing machines and drilling units.
锯床和钻削单元



Composite.
复合材料生产线

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MORE INFORMATION ABOUT GRINDING SOLUTIONS FOR MEDIUM AND HEAVY PARTS

有关中型和大型零件磨削的更多解决方案

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