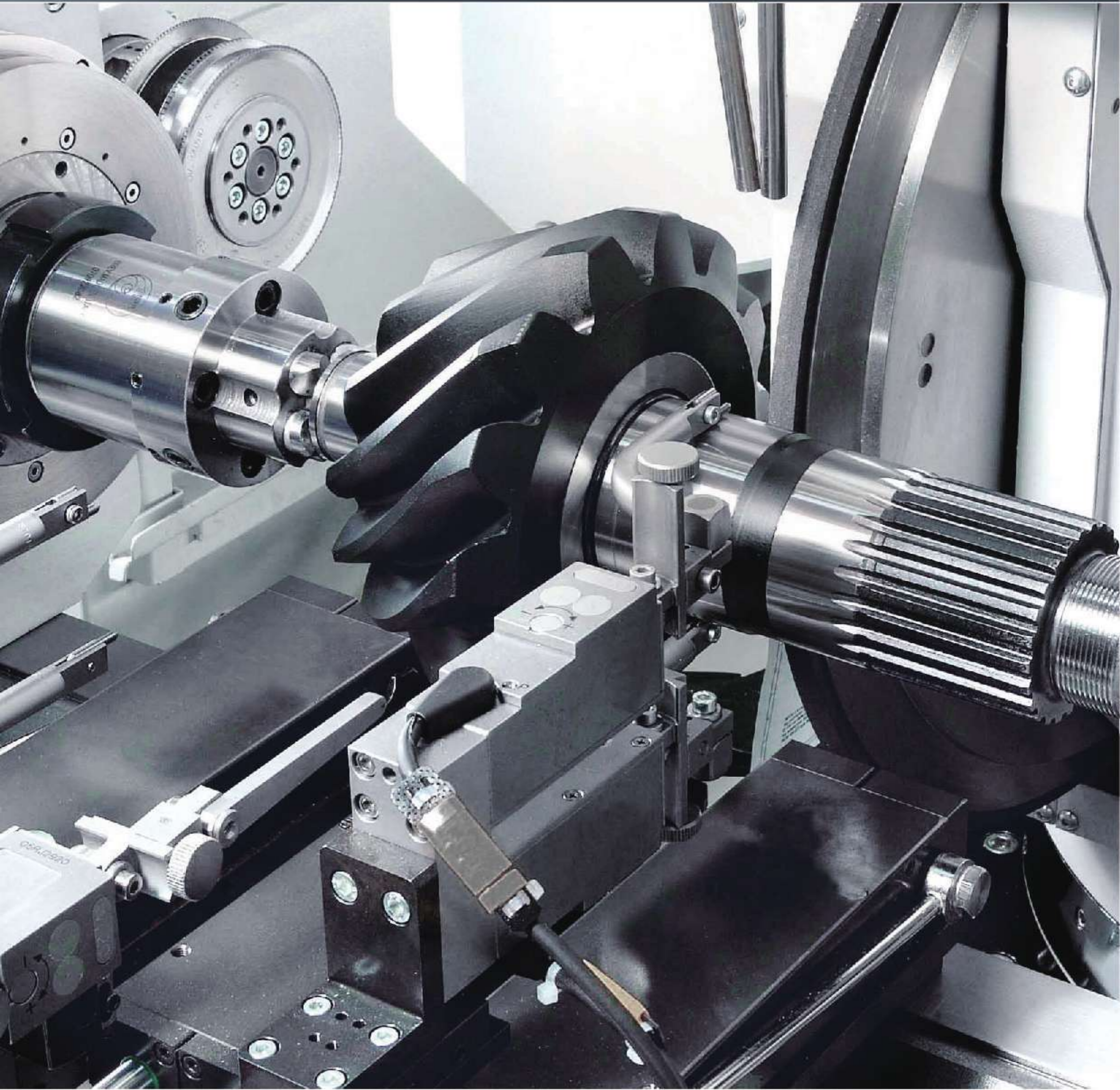




**DANOBAT**

## HIGH PRECISION GRINDING SOLUTIONS

高精度磨削解决方案



# HIGH PRECISION GRINDING SOLUTIONS DANOBAT

## 高精度磨削解决方案



### The widest grinding machine range of the market

DANOBAT presents the range of grinding machines, from the small cylindrical grinding machine to the large slide way grinding machine, machines suitable for the single part batches or for high production.

We specialise on the construction of grinding machines suited for your application. We design machines for specific applications for our customers.

The finest technologies are utilised to achieve the highest rigidity and precision. The modularity in the design gives us flexibility to achieve the shortest lead time and the optimum cost for a machine made to order. Our machines provide an ergonomic and quality solution with a user friendly and powerful software being at the same time friendly with the environment.

### 市场最广阔的磨床系列

达诺巴特提供的磨床范围包括从小型的磨床到大型的导轨磨床，既适合于单件生产也适合于大批量生产。

我们专业生产制造满足您需要的磨床，并且可以按照客户的特定需求设计磨床。

采用先进技术获得高刚性和高精度。设计中采用的模块化方案使设备具有更快的交货期和更好的性价比。我们的设备提供人机一体的高质量解决方案，带有操作方便和功能强大的软件，同时环保。



- 01. DANOBATGROUP
- 02. DANOBAT-OVERBECK
- 03. DANOBAT-NEWALL

# APPLICATIONS

## 应用行业

### Aerospace and power generation

#### 航空和风力发电



▲ Rotor. 转子



▲ Stator. 定子



▲ Landing gear. 起落架



▲ Rotor shaft. 转子轴



▲ Eolic generator. 发电机轴



▲ Transmission. 车轴

### Capital goods

#### 通用机械



▲ Extrusion shaft. 压挤机轴



▲ Railway shaft. 铁路车轴



▲ Printing roll. 印刷机轴



▲ Coordinate grinding. 坐标磨



▲ Automotive industry. 汽车行业



▲ Hydraulic industry. 液压行业

# LG

## External grinding machines

Equipped with linear motors technology direct driver jeindles, natural granite bed.

Combination of conventional abrasive and high speed grinding by using "B" axis with spindles to suit potential customers needs. Automatic loading/unloading system as an option.

Ideal for large batch production components such us, cutting tools, ultra precision hydraulic parts, automotive components and out of round grinding i.e. cam grinding.

## 外圆磨床

配有直线电机、天然大理石床身、静压导轨、回转轴直接驱动。

传统磨削和高速磨削的组合采用B轴主轴以适应潜在用户的需求, 自动上下料系统为选项。

是进行切削刀具、超精度液压件和非圆零件(如凸轮磨削)的理想设备。



		LG-200	LG-400	LG-600
<b>Grinding length</b> 磨削长度	mm	200	400	600
<b>Max. grinding diameter</b> 最大磨削直径	mm	200	300	300
<b>Max. weight between centres</b> 两顶尖最大承重	kg	30	80	80
<b>Wheel size</b> 车轮尺寸	mm	350 / 400	500	500
<b>Max. peripheral speed</b> 最大线速度	m/s	35 - 120	35 - 120	35 - 120



# ID / IRD

## Internal and radii grinding machines

High precision internal grinding machine with linear motors technology and natural granite bed for stability.

Radius grinding with front-end software for form grinding with the ability to use in-process / post-process gauging.

## 内圆和圆弧磨床

采用直线电机技术和稳定的纯天然大理石床身的高精度磨床。采用先进软件的圆弧磨削具有在线/离线测量功能。



		ID/IRD 200	ID/IRD 400	ID/IRD 400L	ID/IRD 600
<b>Max. internal grinding diameter</b> 最大磨削内径	mm	100	200	300	700
<b>Max. workpiece length</b> 最大工件长度	mm	100	190	1300	600
<b>Max. swing diameter</b> 最大回转直径	mm	200	400	500	900
<b>Max. part weight</b> 工件最大重量	kg	30	170	350	500



# CG / PG

## High production grinding machines

Equipped with large capacity wheels, automatic loading, multi diameter in process and post process absolute gauging system, CNC controlled tailstock and hydrostatic technology.

Designed towards medium to large size batches i.e. automotive components.

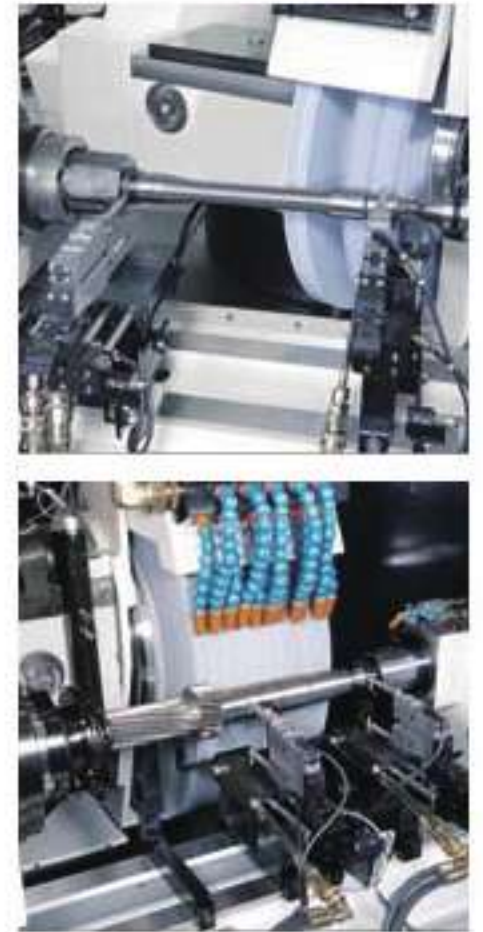


## 用于大批量生产的磨床

配有大规格砂轮；自动上料；多直径在线和离线绝对测量系统；数控尾架和动静压技术。

设计用于中型到大型尺寸批量生产，如汽车业零件。

		CG	PG
<b>Max. distance between centers</b> 两顶尖最大距离	mm	600 1000	600 1000
<b>Max. weight between centers</b> 两顶尖最大承重	kg	80 / 250	500
<b>Max. diameter to be ground</b> 最大磨削直径	mm	440	440
<b>Max. grinding wheel diameter</b> 砂轮最大直径	mm	760	910
<b>Max. peripheral speed</b> 最大线速度	m/s	60	60



# ESTARTA

## Centerless grinding machines

Wide range of centerless grinding machines for high precision and production work that have been designed to easily incorporate peripheral equipment such as loading systems, measuring equipment and coolant systems.



## 无心磨床

多种规格的心磨床用于高精度和大批量生产，并设计提供相关辅助设备，如上料系统、测量设备和冷却系统。

		ESTARTA 301 - 302 - 305 315 - 318 - 327
<b>Component size (min-max) diam.</b> 工件尺寸（最小到最大）直径	mm	0,5 - 250
<b>Grinding wheel dimensions</b> 砂轮尺寸	mm	325 x 125 - 650 x 500 (660)
<b>Main motor power</b> 主电机功率	kW	7,5 - 90
<b>Machine weight</b> 毛重量（约）	kg	1800 - 16500



# HG / WT

## Grinding machines for medium and heavy parts

High precision and large capacity universal grinding machines. Hydrostatic technology. Multi-diameter absolute gauging systems for in-process and post-process measuring.

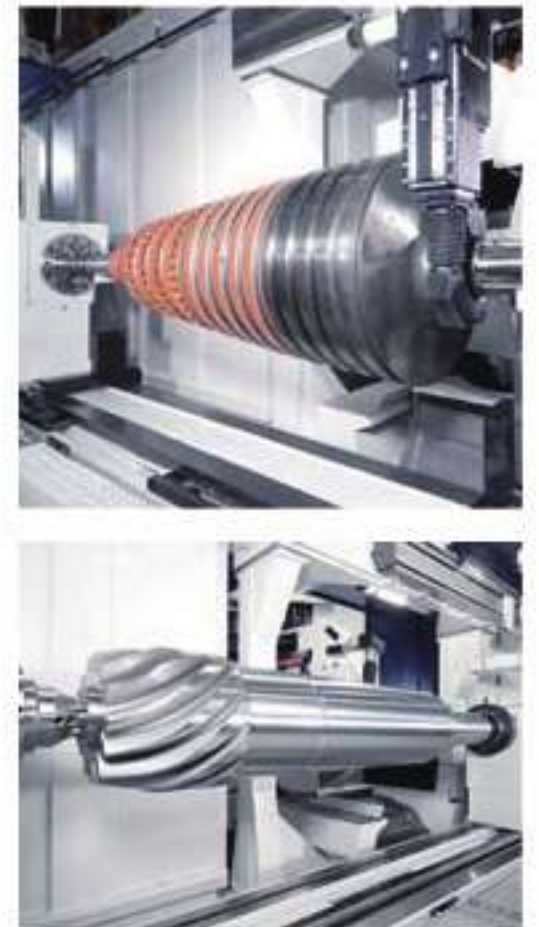
Grinding of printing and steel rolls, gas and wind turbines shafts, generator shafts, railway shafts, precision transmission shafts, gears, etc.

## 用于中型和大型零件的磨削解决方案

高精度和多功能万能磨床，静压技术。万能磨床范围广；高精度；静压技术；多直径绝对测量系统用于在线和高线测量。用于加工印刷机滚筒和钢制辊、发电机主轴、铁路车轴、精密转动轴和齿轮。



		HG 62	HG 72	HG 92	WT 62	WT 72/92
<b>Max. distance between centers</b> 两顶尖最大距离	mm	2000	4000	5000	1000 1500 2000	8000
<b>Max. length to be ground</b> 最大磨削长度	mm	2000	4000	5000	1000 1500 1800	8000
<b>Max. weight between centers</b> 两顶尖最大承重	kg	500	1500	5000	500	8000
<b>Max. diameter to be ground</b> 最大磨削直径	mm	440	640	850	440	1000
<b>Max. grinding wheel diameter</b> 最大砂轮直径	mm	760	915	1015	610	1060



# VG / IEV

## Vertical grinding machines

Large capacity vertical grinding machines. Internal/external and coordinate grinding. Independent base and column structure and cross slides. Linear technology. Multifunction machine, hard turning and grinding. "B"-axis as an option with mutable spindles. Hydrostatic table.

Grinding of aircraft engines stators, wind turbine gears, maritime transmission gears, bearings, etc.

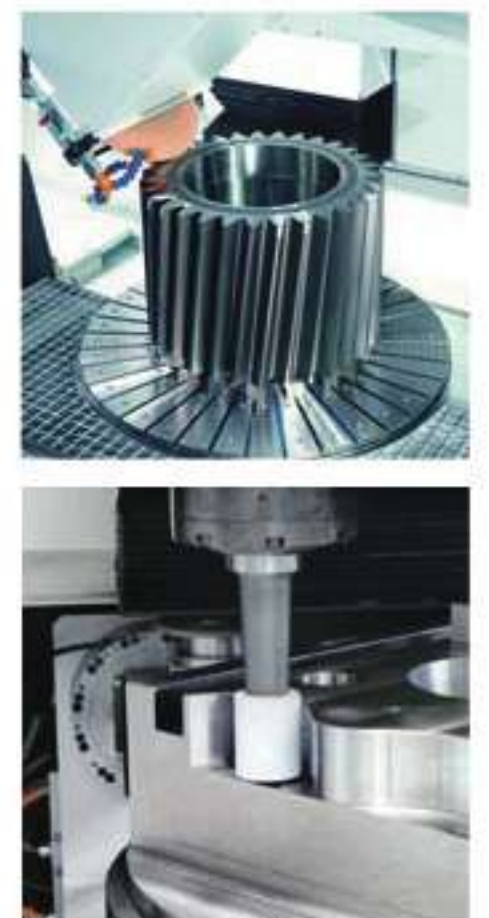
## 万能立式磨床

多功能立式磨床；内圆/外圆盒插补磨削。独立的床身和立柱结构和横向溜板，直线导轨技术，多功能设备，硬车和磨削，B轴带可变主轴为选项，静压工作台。

用于航空发动机转子、风力发电齿轮、转动齿轮、轴承、通用零件。



		IEV	VG
<b>Max. diameter to be ground</b> 最大磨削直径	mm	800	2000
<b>Max. height to be ground</b> 最大磨削高度	mm	800	1500
<b>Nr. of spindles in "B"-axis</b> 在B轴的主轴数量		4	4
<b>Max. wheelhead power</b> 砂轮头架最大功率	kW	17,5	24



# SGU / SGT / SGD

## Double column special grinding machines

Double column slide way grinding machines with fixed or mobile cross rail and tangential and/or universal wheelheads.

Grinding of machine tool beds and guideways and high precision heavy and large components.

## 双立柱专用磨床

双立柱导轨磨床带固定或移动横架和切线方向的万能砂轮头架。用于加工机床床身和导轨、高精度重型和大型零件。



		SGU / SGT / SGD
<b>Max. table length</b> 工作台最大长度	mm	14000
<b>Max. table width</b> 工作台最大宽度	mm	3000
<b>Max. wheel dimensions</b> 砂轮最大尺寸	mm	760 x 200
<b>Max. height to be ground</b> 最大被磨削中心高	mm	2000
<b>Max. wheelhead power</b> 砂轮头架最大功率	kW	37



# MC / MT

## Creep feed grinding machine

Creep feed grinding machines. Continuous dressing. Coolant nozzles compensation. Five axes interpolation.

Grinding of aerospace and land based gas turbines blades, pump rotors, hydraulic distributors, etc.

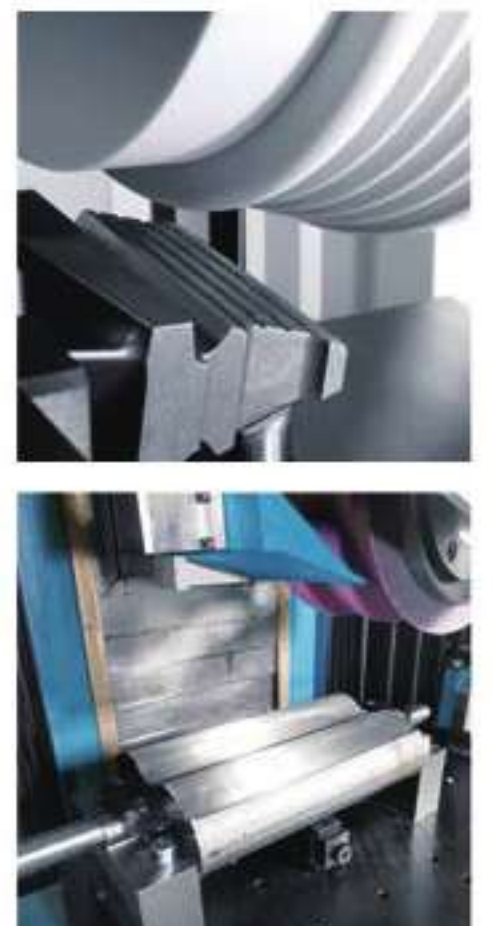
## 蠕动磨床

蠕动磨床；连续修正；冷却喷嘴；补偿；五轴插补。

用于加工航空航天和透平机的叶片、泵的转子、液压分离器等。



		MC	MT
<b>Max. table length</b> 工作台最大长度	mm	800	2000
<b>Max. table width</b> 工作台最大宽度	mm	600	600
<b>Max. wheel dimensions</b> 砂轮最大尺寸	mm	508 x 225	508 x 150
<b>Max. wheelhead power</b> 砂轮头架最大功率	kW	90	90



# SPECIALISED MULTI-TECHNOLOGICAL SOLUTIONS

## 特殊的多技术解决方案



Grinding machines for aerospace components.  
特殊的多技术解决方案



Vertical and horizontal turning centres.  
立式和卧式车削中心



Drilling units.  
钻削单元



Bandsawing machines.  
锯床



Composite.  
复合材料

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