

**Reliable**

Reliable quality products

**Trustable**

We put our reputation in first position

**Responsible**

What we promise what we do.

***We believe, we can, we just do it.*****Suzhou Gudwill Grinding Technology Co., Ltd.****Add:** RM 1129,NO.18, LONGSHAN SOUTH RD, GUANGFU, WUZHONG, SUZHOU, CHINA**Mobile/WhatsApp:** +86-188 9696 7812, +86-173 7273 9851**Tel:** +86-0512-65580060**Email:** sales@gudwill.cn**Web:** www.gudwill.cn

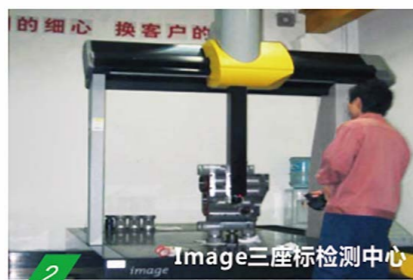
Gudwill focus on grinding technology,  
One-stop solution for  
your grinding requirement.

**CENTERLESS GRINDING MACHINES**



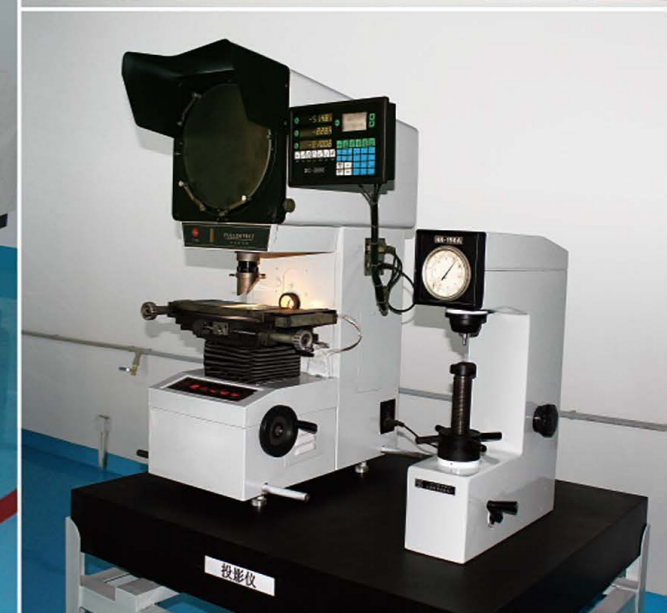
- 01 工厂装配车床
- 02 工厂粗装车床
- 03 工厂精装车床
- 04 公司大堂
- 05 公司会议室
- 06 设计研发中心
- 07 会客厅
- 08 员工娱乐室
- 09 员工休息室
- 10 员工食堂
- 11 检测室

## PROCESSING

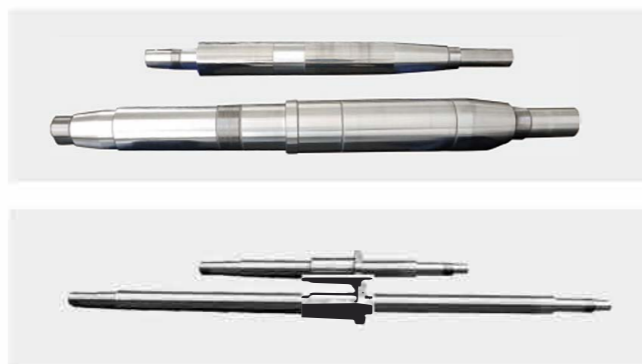
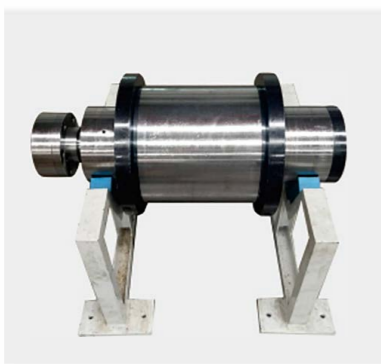


- 1 DOUBLE COLUMN GRINDING
- 2 C CONTROL
- 3 MAZAK VERTICAL MACHINING CENTER
- 4 YASDA HORIZONTAL MACHINING
- 5 SPINDEL TESTING
- 6 LASER INSPECTION

## “SOLVE PROBLEMS INSIDE FACTORY”



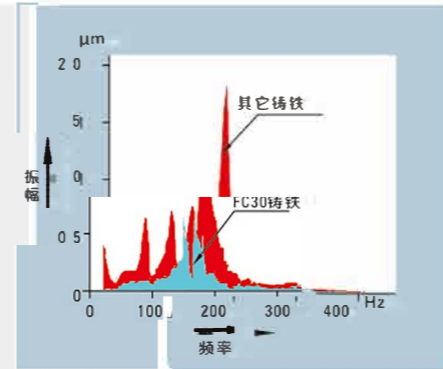
## COMPONENTS CONTROL



### Precision inspection equipment implements comprehensive quality control

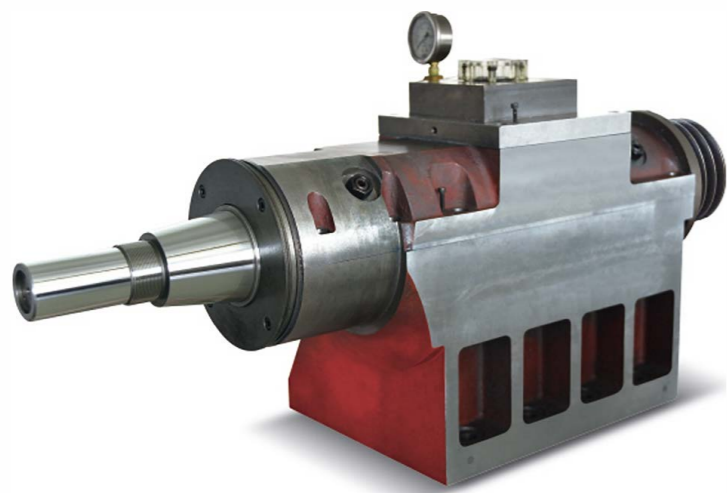
提供最佳性能的机械,是立业之本。每一台磨床从材料开始到交机,整个制造过程都经全面品质控管,品管部门拥有多台精密测试仪器,杜绝一切不良零件入库,装配过程中每个环节都按标准严格执行,确保我们优良可靠的机器交付客户。

**精密机构**



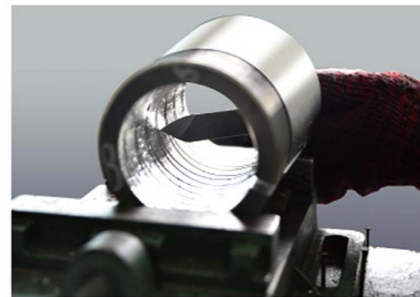
**高刚性机体结构/HIGH RIGIDITY STRUCTURE DESIGN**

- The base of the centerless grinder is made of high-grade cast iron (FC 301 cast, and normalized heat treatment, double-eight-type track clearing design, to ensure that the body is not deformed after long-term use. The main lower feed fine-tuning can reach 0.001mm.



**砂轮主轴座总成GRINDING WHEEL SPINDLE UNIT**

- The main shaft is made of Japanese high-grade SNCM-21H alloy steel, after quenching and tempering, heat treatment and then cryogenic treatment, the surface hardness reaches HRC-62.



合金铜瓦轴承精密刮铲



主轴与合金轴承精密装配，以获得最佳研磨精度，也是主轴使用寿命的前提



主轴旋转跳动精度测试，要求跳动不超过2μm

**精密机构**



**调整轮主轴座总成/ADJUSTING SPINDLE UNIT**

- The main shaft is made of Japanese high-grade SNCM-21H alloy steel, after quenching and tempering, heat treatment and then cryogenic treatment, the surface hardness reaches HRC-62.



**精密丝杆BALL SCREW**

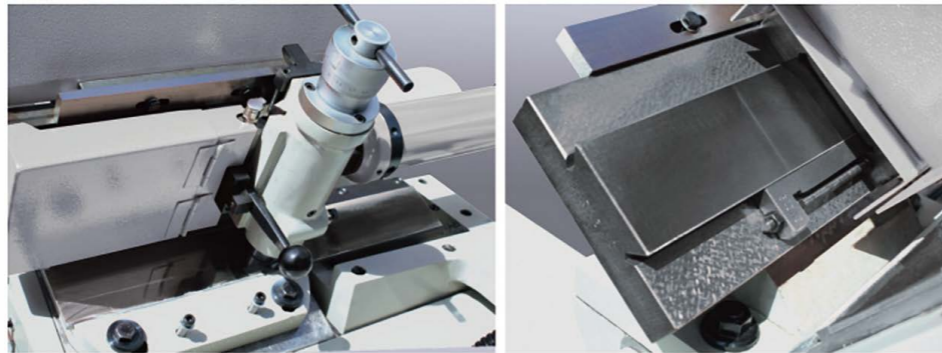
- The feed screw adopts a ball screw with high positioning accuracy. Excellent friction, high reversibility, positioning accuracy of μm level can be achieved.



**进刀滑板 FEEDING CARRIAGE**

- Use high-grade castings and materials, eliminate internal stress, high strength, and extremely low deformation due to temperature differences.

## 精密机构



### 修整装置 DRESSING DEVICE

the grinding wheel and the repair cover are hydraulically driven in the device, with stepless speed change, smooth dressing and special alloy cast iron for the dressing seat

## 油压系统



### 主轴油压表 OIL PRESSURE

Observe the pressure of the workpiece in real time to encourage the spindle to work under normal oil pressure. When the pressure is lower than the set value, it will automatically stop to avoid spindle loss.

### 压力开关 PRESSURE SWITCH

The pressure switch of the automatic lubrication system of the grinding wheel spindle bearing. When the lubricating oil pressure does not reach the rated value, the spindle motor cannot be started or will automatically stop rotating to avoid damage to the spindle due to low-pressure operation.

### 冷却风扇 COOLANT FAN

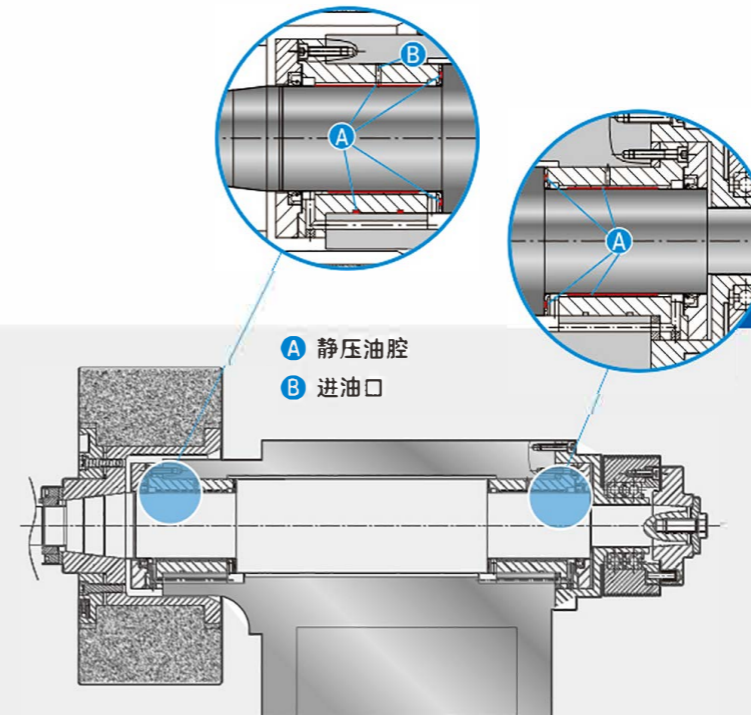
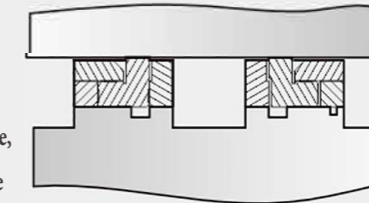
## 精密机构

选配静压导轨\静压主轴 Optional hydrostatic guide rail and hydrostatic spindle  
可满足更高精度、更强磨削能力的需求！  
Can meet the needs of higher precision and stronger grinding ability

## 静压导轨

### 优点 ADVANTAGE

- Since the rail painting is pure liquid friction, the friction coefficient is extremely small; (about 0.0005 mm), the driving power can be greatly reduced.
- Due to pure liquid friction, the guide rail will not wear out, has a long life, can guarantee the manufacturing accuracy for a long time, and reduces the maintenance work.



## 静压主轴

### 优点 ADVANTAGE

- The rotation accuracy is high, and extremely high roundness and shape accuracy of the workpiece can be obtained.
- Excellent shock absorption, no texture on the surface of the workpiece due to vibration.
- Extremely high precision, excellent surface quality of the workpiece.

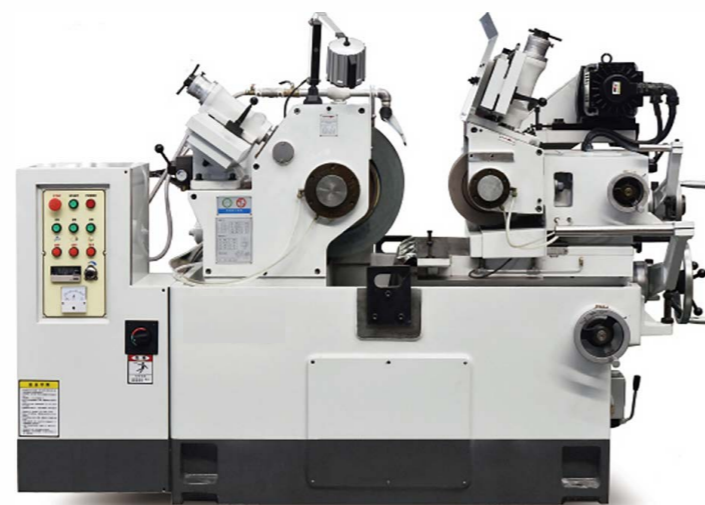


传统型

· GC12S



· GC18S



优点ADVANTAGE

This machine is made of Meehanite cast iron with high shock absorption and high stability. After proper heat treatment, the internal stress is eliminated to ensure the thermal stability of the machine body for long-term use.

The adjusting wheel is driven by a servo motor to obtain higher rotation accuracy, and is controlled by digital control for stepless speed change.

技术参数TECHNICAL DATA

Items	UNIT	GC12S	GC-12HS	GC-18S	GC-18HS	GC-18AS	GC-18BS	GC-20S
GRINDING RANGE	mm	φ 0.5~40	φ 0.5~40	φ 0.5~60	φ 0.5~60	φ 0.5~60	φ 0.5~60	φ 1~60
WHEEL SIZE	mm	φ 305x150x φ 120	φ 305x 150x φ 120	φ 455x205x φ 228.6	φ 455x205x φ 228.6	φ 455x255x φ 228.6	φ 455x305x φ 228.6	φ 510x 205x φ 254
ADJUSTING WHEEL	mm	φ 205x150x φ 90	φ 205x150x φ 90	φ 255x205x φ 111.2	φ 255x205x φ 111.2	φ 255x255x φ 111.2	φ 255x305x φ 111.2	φ 305x205x φ 127
GRINDING WHEEL	R.P.M	1950	1950	1520	1520	1520	1520	1350
ADJUSTING WHEEL	R. P.M	0~320	0~320	0~250	0~250	0~250	0~250	0~250
GRINDING MOTORR	HP	7.5	7.5	15	15	20	20	20
ADJUSTING MOTORR	KW	2.0 (SERVO)	2.0 (servo)	3.0 (SERVO)	3.0 (SERVO)	3.0 (SERVO)	3.0 (SERVO)	3.0 (SERVO)
HYDRAULIC MOTORR	HP	1HP	1	2	2	2	2	2
COOLANT MOTORR	HP	1/8HP	1/8	1/4	1/4	1/4	1/4	1/4
ADJUSTING HANDWHEEL	mm	3.5/R0.02/SCALE	3.5R 0.02/SCALE	3.5/R0.05/	3.5/R0.05/	3.5/R0.05/刻度	3.5/转0.05/刻度	3.5/转0.05/刻度
MICRO HANDWHEEL	mm	0.1/R0.001/SCALE	0.1/R0.001/SCALE	0.1R0.001/	0.1/R0.001/	0.1/R0.001/刻度	0.1/转0.001/刻度	0.1/转0.001/刻度
GRINDING HHANDWHEEL	mm	7.0/R0.10/5C	7.0/R0.10/5C	9.0/R 0.10/	9.0/R0.10/	9.0/转0.10/刻度	9.0/转0.10/刻度	9.0/转0.10/刻度
MICRO HHANDWHEEL	mm	0.2/R0.001/5C	0.2/R0.001/5C	0.2/R0.001/	0.2/转0.001/	0.2/转0.001/刻度	0.2/转0.001/刻度	0.2/转0.001/刻度
DRESSING HHANDWHEEL	mm	1.5/转0.01/刻度	1.5/转0.01/刻度	2/转0.01/	2/转0.01/	2/转0.01/刻度	2/转0.01/刻度	2/转0.01/刻度
ADJUSTING SLANT		+5°~-3°	+5°~-3°	+6°~-3°	+6°~-3°	+6°~-3°	+6°~-3°	+5°~-3°
ADJUSTING RROTATING		+5°~-1°	5°+~-1°	+5°~-1°	+5°~-1°	+5°~-1°	+5°~-1°	+5°~-1°
SPINDLE STRUCTURE		DYNAMIC	DYNAMIC	DYNAMIC	DYNAMIC	DYNAMIC	DYNAMIC	DYNAMIC
MACHINE SIZE	mm	1800 x1400 x1450	1800x 1400x1450	2350 x1960 x1550	2350 x1960 x1550	2350x 1960x 1550	2350x 1960x1550	2350x 1960x1550
PACKING SIZE	mm	2350 x1650 x1770	2350 x1650 x1770	2900 x2400 x1850	2900 x2400 x1850	2900x 2400x1850	2900x 2400x1850	2900x 2400x 1850
NET WEIGHT	kgs	1700	1700	2850	2850	2950	3100	3200
GROSS WEIGHT	kgs	1850	1850	3005	3005	3100	3300	3500

标准附件 STANDARD PARTS :

- Grinding wheel and grinding wheel flange
- Guide wheel and guide wheel flange
- Stop and pass the tool post
- Electrical Control Box
- Water tank and pump
- Oil tank and pump
- 2 pcs diamond trimming pens
- Working lamp
- Cooling fan
- Flange pull true
- Toolbox and common tools

选购附件 OPTIONS PARTS :

- Automatic feeder
- Flat type rewinding device
- Paper type filter
- Magnetic filter




动或全自动均可订制

# 自动化方案 AUTOMATIC SOLUTION

## 单机自动送收料 SINGAL UNIT WORKPIECE FEEDING SYSTEM



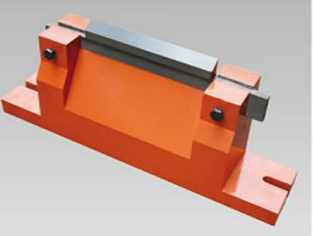

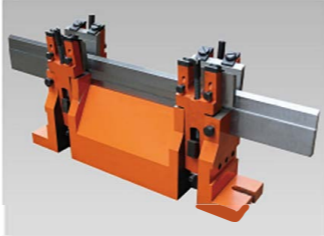







		
● long workpiece feeder	● Push plate feeder	● 震动盘送料 Vibrating plate feeding
		
● 排齿送料机 Tooth feeder	● 自动收料机 Automatic rewinding machine.	

## 自动送收料 AUTOMATIC WORKPIECE FEEDING SYSTEM

		
		● 全自动门型自动送料 ONLY FOR CNC TYPE MACHINE

# 附件 ACCESSORIES

## 标准附件 STANDARD PARTS

			
● Grinding wheel and grinding wheel flange	● Guide wheel and guide wheel flange	● Stop and pass the tool post	● Cooling fan
			
● Through tool holder and tool blade	● Electrical control box	● Water tank and pump	● Oil tank and pump
			
● 2 pcs diamond trimming pens	● Work light	● Flange pull tool	● Toolbox and common tools

## 特殊附件 OPTIONS PARTS

				
● Workpiece lift device	● Workpiece pushing device	● Paper type filter	● Hydraulic separator	● Automatic feed device for lower slide plate
				
● Coolant cooling device	● Magnet Filter	● OIL COOLER	● AUTOMATIC LUBRICATION UNIT	