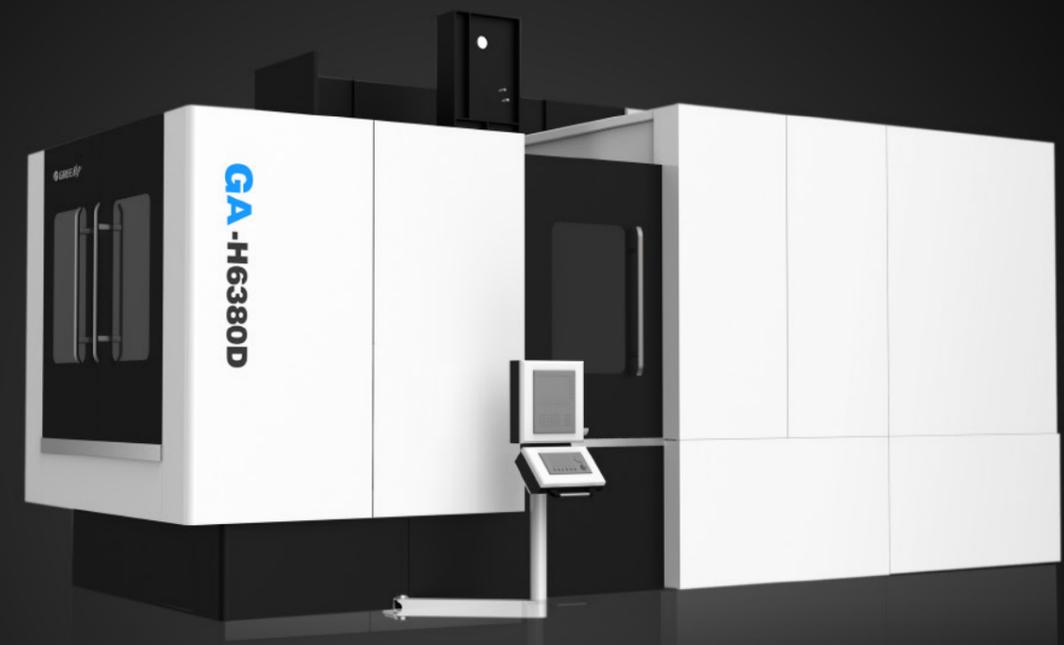




格力数控机床产品手册

CNC PRODUCT MANUAL

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COMPANY—PROFILE



企业概况

珠海格力智能装备有限公司是珠海格力电器股份有限公司旗下的全资子公司，是一家专注于工业机器人、自动化设备、高端数控机床及零部件等的研发、生产、销售和服务的高新企业。公司机床产品涵盖卧式加工中心、五轴加工中心、车铣复合加工中心、石墨加工中心、立式加工中心、钻攻中心等主要机型，并为客户提供加工工艺、自动化加工等全套生产解决方案，在 3C 及模具加工领域受到广泛应用。

ZHUHAI GREE INTELLIGENT EQUIPMENT CO., LTD.

Zhuhai GREE Intelligent Equipment Co., Ltd. is wholly owned by GREE Electric Applicants INC of ZhuHai .It is a high-tech enterprise that specializes in the R&D, manufacturing and sales service of the industrial robots, automation equipment and high-grade CNC machine tools.

The CNC products cover horizontal machining center, five-axis machine center, turning-milling machining center, graphite machining center, vertical machining center and drilling center, etc. We can also provide full range of automated solutions and processing technic, which have been widely used in 3C and the mould processing field.

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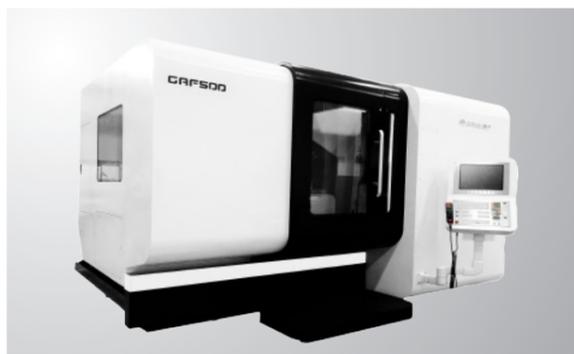
产品总览

PRODUCT OVERVIEW

格力数控机床涵盖了卧式加工中心、五轴加工中心、车铣复合加工中心、石墨加工中心、立式加工中心、钻攻中心、数控车床等主要机型，为 3C、汽车、模具、五金、塑料等不同领域的客户提供专业数控加工解决方案。

GREE CNC products cover horizontal machining center, five-axis machine center, turning-milling machining center, graphite machining center, vertical machining center and drilling center, etc. We can also provide professional processing schemes for customers in 3C, motor-dom, mold processing, hardware and plastics and any other fields

五轴联动加工中心 GA-F500
Five-axis machining center GA-F500A



五轴联动加工中心 GA-F350
Five-axis machining center GA-F350



卧式加工中心 GA-H6380D
Horizontal Machining Center GA-H6380D



立式加工中心 GA-LM540
Vertical machining center GA-LM540



CNC 玻璃精雕机 GA-V4560
CNC glass engraving machine GA-V4560



车铣复合加工中心 GA-CX540
Turning milling machining center GA-CX540



钻攻中心 GA-Z4060
Drilling Center GA-Z4060



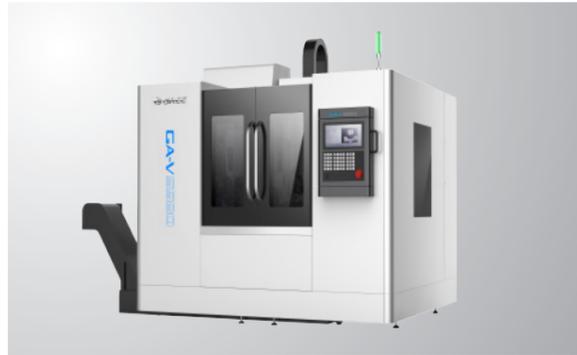
立式加工中心 GA-V6090
Vertical machining center GA-V6090



立式加工中心 GA-V5080
vertical manufacture center GA-V5080



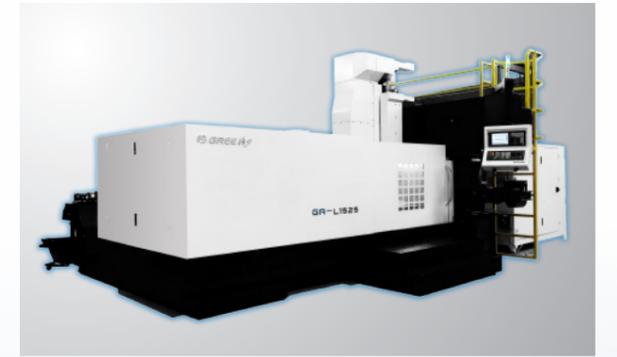
立式加工中心 GA-V5580
Vertical manufacture center GA-V5580



卧式数控车床 GA-CX3020
Horizontal CNC lathe GA-CX3020



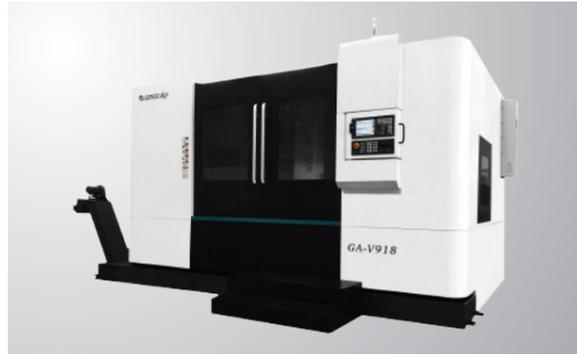
龙门加工中心 GA-L1525
Double-column machining center GA-L1525



立式加工中心 GA-V1160
Vertical manufacture center GA-V1160



立式加工中心 GA-V918
Vertical machining center GA-V918



从研发到生产
从品质到服务
每一项技术的创新，都凝聚我们的坚持
每一项服务的提升，都凝集我们的用心
格力智能制造，始终如一
为客户提供专业的数控加工解决方案

双主轴车床 GA-2010D
Double spindle lathe GA-2010 D



卧式数控车床 GA-C4050
Horizontal CNC lathe GA-C4050



GA-F500

- 具备 $\Phi 500$ 工作摇篮转台，主轴转速 18000
- 传动系统采用日本 NSK 中空丝冷却丝杆加欧洲进口直线导轨
- 光栅全闭环控制，三轴快移速度最快可达 30M/min
- 采用欧洲进口高速高刚性电主轴及摇篮转台
- 采用 24 位圆盘式刀库，刀柄为 HSK-A63
- 主要适用于叶轮、模具、航天、汽车等复杂零件的精加工

Having a work cradle turntable, spindle speed 18000rpm.

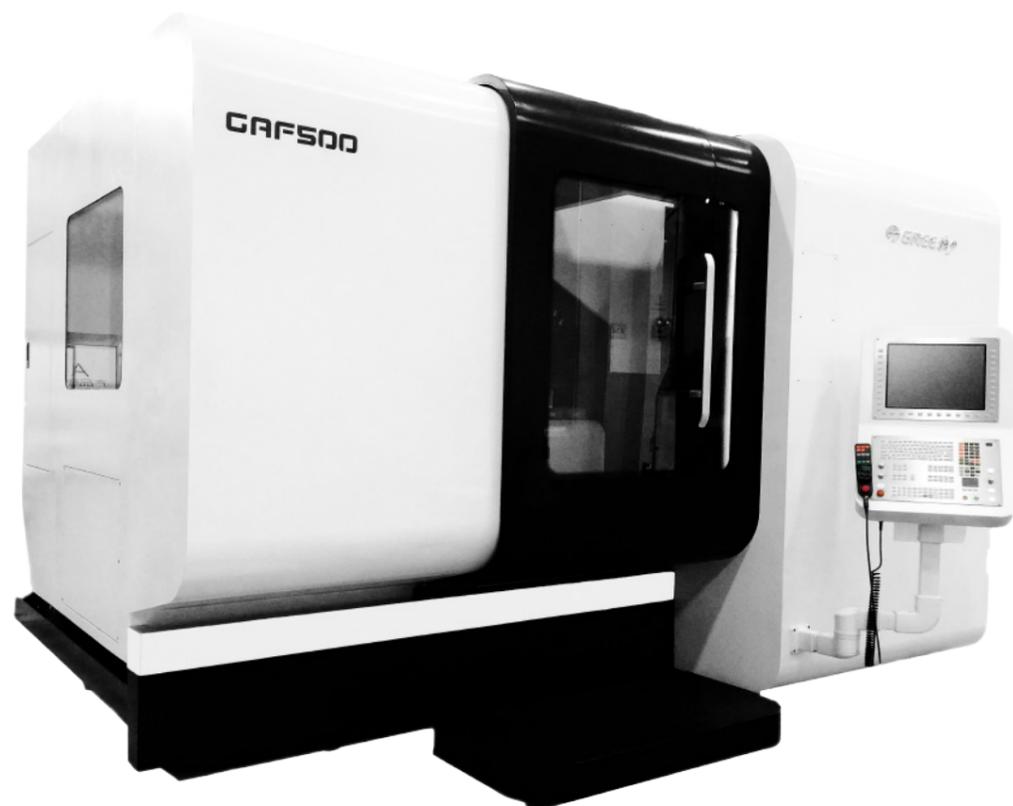
The transmission system uses Japanese NSK hollow colling screw and European imported linear guides.

Grating full closed loop control of three-axis rapid traverse speed of up to 30m/min.

Using the European imports of high speed rigid spindle and cradle turntable

Using 24-bit disc magazine, Knife handle is HSK-63.

Mainly applicable to impeller, meld, aerospace, automotive and other precision machining of complex parts.



五轴联动加工中心 GA-F500

Five-axis machining center GA-F500

参数 Data	单位	GA-F500
主轴最大转速 Maximum speed of spindle	rpm	18000
行程 X/Y/Z stroke	mm	900/800/500
工作台尺寸 size of the table	mm	$\Phi 500$
承重能力 loading capacity	kg	500
伺服马达功率 X/Y/Z power of servo motor	kw	8.6/5.4/5.4
快速进给 fast move	mm/min	30000
切削速率 speed of cutting	mm/min	1-10000
定位精度 positioning precision	mm	0.008
重复定位精度 repositioning precision	mm	0.005
主轴功率 spindle power	kw	35
最大刀具 largest cut	mm	$\Phi 80$ (相邻有刀)
最大外形尺寸 largest size	mm	4200X2800X3700
机器重量 weight of the machine	kg	13000
数控系统 CNC system		HEIDENHAIN

GA-F350

- 高刚性结构设计、主体结构平台化，动静态特性优化分析
- 矿物铸件床身，减震好，振动小
- 全闭环控制
- 高速、高精、高稳定
- 全直驱驱动技术，主要适用于叶轮、膝盖关节、医疗器械、复杂曲面的模具制造

The high rigid structure design, the main body structure platform,dynamic and static characteristic optimization analysis.

Mineral casting bed, good shock absorption, small vibration;
Full closed-loop control,

High speed, high precision, high stability,"

Full direct drive technology.Mainly suitable for impeller, knee joint, medical equipment, complex curved surface of the mold manufacturing.



五轴联动加工中心 GA-F350

Five-axis machining centerr GA-F350

参数 Data	单位	GA-F350
主轴最大转速 Maximun speed of spindle	rpm	20000
行程 X/Y/Z stroke	mm	450 x 580 x 450
工作台尺寸 size of the table	mm	φ 350
承重能力 loading capacity	kg	350
伺服马达功率 power of servo motor	kw	3.3/6.5/2.7
快速进给 fast move	mm/min	80000/80000/80000
定位精度 positioning precision	mm	0.003
重复定位精度 repositioning precision	mm	0.002
主轴功率 spindle power	kw	20
刀柄型式 type of holder		HSK A63
最大刀具 largest cut	mm	φ 80 (相邻有刀)
最大外形尺寸 largest size	mm	3800 x 3400 x 2850
机器重量 weight of the machine	kg	10000
数控系统 CNC system		HEIDENHAIN

GA-H6380D

- 采用自动交换工作台，双工位卧式加工中心
- 具备车、铣、镗、钻、扩、铰、攻丝等多种工序的粗加工和精加工能力
- 传动系统采用丝杠驱动加光栅尺闭环控制
- 具有 60 位链式刀库，HSK-A100 刀柄
- 适用于箱体零件、盘件及模具等复杂零件的加工
- 主要应用于航空航天、汽车、模具、环保等领域

Have automatic exchange workbench and two position horizontal machine center.

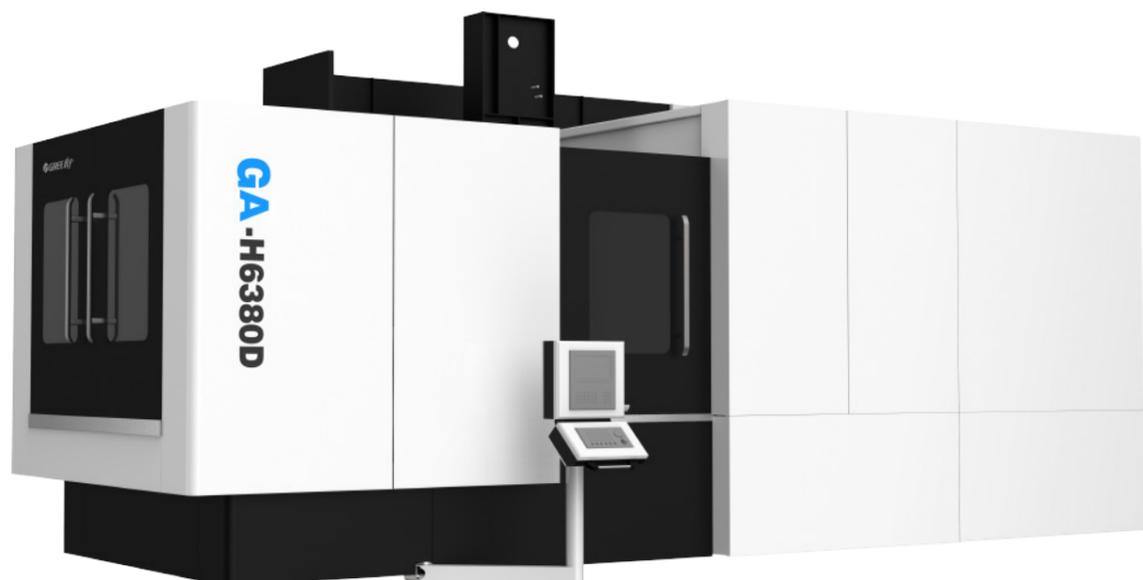
Have the roughing and finishing ability of turning, milling, boring, drilling, expanding, cutting, tapping and other processes

The driving system uses closed-loop with the screw driver and the grating ruler

ATC: 60 bit chain-type ATC, HSK-A100 knives.

Be suitable for the processing of complex parts such as box parts, plates and molds

Mainly used in aerospace, automotive, mold, environmental protection and other fields



卧式加工中心 GA-H6380D

horizontal machine center GA-H6380D

参数 Data	单位	GA-H6380D
主轴最大转速 Maximum speed of spindle	rpm	12000
行程 X/Y/Z stroke	mm	1000/800/900
工作台尺寸 size of the table	mm	630X630
承重能力 loading capacity	kg	1200
伺服马达功率 X/Y/Z/R power of servo motor	kw	8.17/4.4/4.4/2.7
快速进给 fast move	mm/min	60000
切削速率 speed of cutting	mm/min	1-10000
定位精度 positioning precision	mm	0.005
重复定位精度 repositioning precision	mm	0.003
主轴功率 spindle power	kw	20
刀柄型式 type of holder		HSK-A100
最大刀具 largest cut	mm	φ 115 (相邻有刀)
最大外形尺寸 largest size	mm	7650X3900X4500
机器重量 weight of the machine	kg	22000
数控系统 CNC system		SIEMENS 840DSL

GA-LM540

- 采用龙门结构，矿物铸件、机械稳定、振动小、精度保持好
- 传动系统采用直线电机驱动加光栅尺闭环控制，快移速度可达 70M/min
- 采用 40 位圆盘式刀库，HSK-E32/HSK-E40
- 主要适用于高光石墨（应用于手机玻璃外壳的热压模具）的加工

Adopt the gantry structure, mineral casting, stable mechanical properties, small vibration, high precision assurance
The transmission system is driven by linear motion actuator with grating ruler close-cycle control. The moving speed is up to 70M/min

ATC: apply the bit circle ATC, knife chooses HSK-E32/HSK-E40

Mainly for the processing of high gloss grephite (used for mobile phone glass shell hot pressing mould)



立式加工中心 GA-LM540

Vertical machine center GA-LM540

参数 Data	单位	GA-LM540
主轴最大转速 Maximun speed of spindle	rpm	36000/30000
行程 X/Y/Z stroke	mm	500/400/250
工作台尺寸 size of the table	mm	500X400
承重能力 loading capacity	kg	200
伺服马达功率 X/Y/Z power of servo motor	kw	3/3/2
快速进给 fast move	mm/min	70000
切削速率 speed of cutting	mm/min	1-20000
定位精度 positioning precision	mm	0.005
重复定位精度 repositioning precision	mm	0.003
主轴功率 spindle power	kw	3.5
刀柄型式 type of holder		HSK-E32/HSK-E40
最大刀具 largest cut	mm	Φ40 (相邻有刀)
最大外形尺寸 largest size	mm	2200X2200X2400
机器重量 weight of the machine	kg	5500
数控系统 CNC system		GREE

GA-V4560

- 机床立柱采用一体式高刚性的龙门式结构：机身、立柱、横梁均为高强度、吸震性能优良的铸铁结构，有较强的稳定性和变形性，床身内部设立大阻尼消振结构，吸振能力优越
- 采用单 Z 轴（主轴）结构设计，加工精度高，立柱变形小
- 机床配备 13 把半圆盘式刀库，适应加工过程中，多把刀操作工艺
- 进料空间大、可加装四轴或五轴转台
- 机床护罩为内摆式双开门结构，可实现程序控制开、关门

The machine tool column adopts the gantry structure with high rigidity: the machine body, column and beam are all cast iron structures with high strength and excellent shock absorption performance, with strong stability and deformation. The large damping vibration elimination structure is set up inside the bed, with superior vibration absorption capacity.

Single b shaft (main shaft) structure design, high machining accuracy, small deformation of the column.

The machine is equipped with 13 semicircular disc knife libraries, which are suitable for operating multiple knives in the processing process.

Large feeding space, can be installed four or five axis table.

The machine tool cover is of internal swing double door structure, which can realize program control of opening and closing.



CNC 玻璃精雕机 GA-V4560

CNC glass engraving machine GA-V4560

名称 name	项目 project	参数 Data
控制系统 CNC system		SIEMENS/WEIHONG
工作台 workbench	工作台尺寸 XY 方向 (mm)	640*490
	工作台最大载重 (KG)	150
	T 型槽工作台	6-8*10
行程 X/Y/Z Stroke	X 轴移动行程 (mm)	600(不含换刀行程)
	Y 轴移动行程 (mm)	450
	Z 轴移动行程 (mm)	160
	横梁到工作台距离 (mm)	310
	主轴鼻端至工作台的距离 (mm)	120-280
主轴 spindle	主轴功率 (KW)	3.7
	主轴最高转速 (RPM)	40000
	刀柄规格	ISO20
	换刀方式	自动
进给速度 speed of moving	最大进给速度 (m/min)	15/15/15
	切削速度 (m/min)	10/10/10
机床精度 tool precision	X、Y、Z 轴定位精度 (mm)	0.008/0.008/0.006
	X、Y、Z 轴重复定位精度 (mm)	0.005/0.005/0.004
润滑装置 lubricating device	润滑方式	自动润滑
动力源 power producer	总耗电功率 (KW)	8
	电源要求	三相 380V/50HZ
	气压需求 (Mpa)	0.6
其他参数 other parameters	三轴伺服电机 (X/Y/Z(KW))	0.75/0.75/0.75
	刀库容量 (半圆盘式)	13 把
	钣金外形	全罩式
	机身材料	HT300
	机械重量 (KG)	3000
选配 chooses	刀具长度检测工具	对刀仪
	工件检测配件	带探针或 CCD

GA-CX540

- 具备 500mmX400mmX200mm 的工作行程，具备卧式高精度转台，高速电主轴转速 30000rpm
- 传动系统采用直线电机驱动加光栅尺定位，快速移动可达 60M/min
- 采用 20 位圆盘式刀库 HSK-E40
- 机床外型尺寸 2500mmX3000mmX2800mm，重量 5T
- 主要适用于手机外壳中框高光铣削，手机后盖曲面车削。

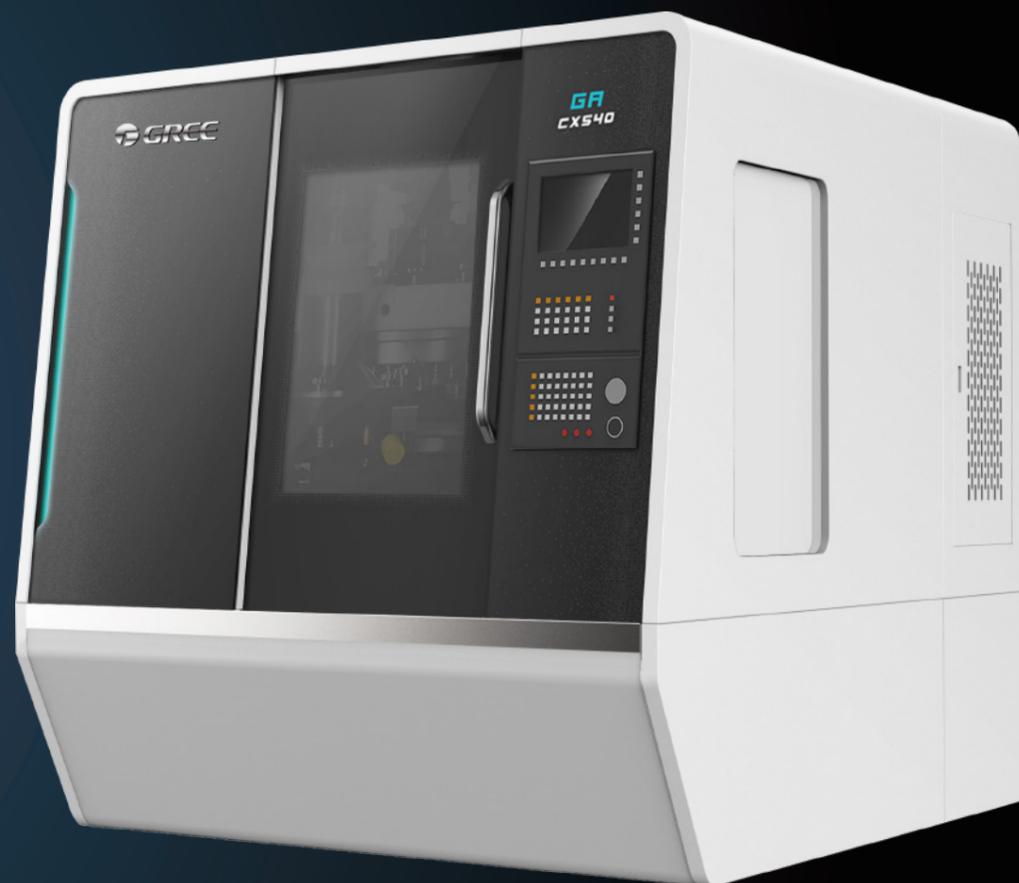
Having the stone of 500mm*400mm*200mm, spindle speed 12000rpm

Diving system using linear motion actuator, grating ruler positioning, and can moving rapidly to 60M/min

ATC: apply the 20 bit circle ATC, knife chooses HSK-E40

Machine dimensions about 2500mmX3000mmX2800mm, weight 5T

Mainly used in mobile phone shell frame high light milling, mobile phone back cover surface milling



车铣复合加工中心 GA-CX540

Turning milling machining center GA-CX540

参数 Data	单位	GA-CX540
主轴最大转速 Maximum speed of spindle	rpm	30000
行程 X/Y/Z stroke	mm	500/400/200
工作台尺寸 size of the table	mm	500X400
承重能力 loading capacity	kg	100
伺服马达功率 X/Y/Z power of servo motor	kw	2/2/2
快速进给 fast move	mm/min	60000
切削速率 speed of cutting	mm/min	1-30000
定位精度 positioning precision	mm	0.005
重复定位精度 repositioning precision	mm	0.003
主轴功率 spindle power	kw	5.5
刀柄型式 type of holder		HSK-E40
最大刀具 largest cut	mm	Φ80 (相邻有刀)
最大外形尺寸 largest size	mm	2500X3000X2800
机器重量 weight of the machine	kg	5000
数控系统 CNC system		GREE

GA-Z4060

- 具备 600mmX400mmX300mm 的工作行程，主轴转速 20000rpm
- 采用高刚性进口滚珠丝杠及线轨，提高快移速度
- 转塔式 16 位刀库，BT30 刀柄
- 主要适用于中小型零件快速切削加工及高速钻孔攻牙

Have the stroke of 600mmX400mmX300mm, high performance 3 axis moving together.

Apply the high stiffness ball thread and the linear track. Improve the moving speed.

ATC: saucer type 16 bit ATC.

Mainly used for the small type components fast cutting and high speed drilling and tapping, the mold with the complex shape, shape and surface manufacture.



钻攻中心 GA-Z4060

Drilling Center GA-Z4060

参数 Data	单位	GA-Z4060
主轴最大转速 Maximum speed of spindle	rpm	20000
行程 X/Y/Z Stroke	mm	600/400/300
工作台尺寸 size of the table	mm	700/420
承重能力 loading capacity	kg	300
伺服马达功率 X/Y/Z power of servo motor	kw	2.3/2.3/3.1
快速进给 fast move	mm/min	48000
切削速率 speed of cutting	mm/min	1-30000
定位精度 positioning precision	mm	0.008
重复定位精度 repositioning precision	mm	0.006
主轴功率 spindle power	kw	4.8/5.7
刀柄型式 type of holder		BT30
最大刀具 largest cut	mm	Φ100 (相邻有刀)
最大外形尺寸 Maximum size	mm	1800X2500X2500
机器重量 weight of the machine	kg	3500
数控系统 CNC system		SIEMENS 828D

GA-V6090

- 高速高刚性丝杆线轨，刚性好，速度高
- 矿物铸件床身，减震好，振动小
- 预埋循环冷却水路
- 热误差和综合误差补偿
- 均匀润滑控制

High speed and high rigidity wire rod rail, good rigidity, high speed.
Mineral casting bed, good shock absorption, small vibration.
Embedded circulating cooling waterway.
Thermal error and comprehensive error compensation.
Uniform lubrication control.



立式加工中心 GA-V6090

Vertical machining center GA-V6090

参数 Data	单位	GA-V6090
主轴最大转速 Maximum speed of spindle	rpm	18000
行程 X/Y/Z stroke	mm	900/600/450
工作台尺寸 size of the table	mm	1000 x 600
承重能力 loading capacity	kg	800
伺服马达功率 power of servo motor	kw	3.1/3.1/3.1
快速进给 fast move	mm/min	30000/30000/30000
切削速度 speed of cutting		1-8000 (增加)
定位精度 positioning precision	mm	0.005
重复定位精度 repositioning precision	mm	0.003
主轴功率 spindle power	kw	25
刀柄型式 type of holder		HSK A63
最大刀具 largest cut	mm	φ 130 (相邻有刀)
最大外形尺寸 largest size	mm	5155 x 3266 x 3360
机器重量 weight of the machine	kg	15000
数控系统 CNC system		SIEMENS 840D

GA-V5080

- 具备 800mmX500mmX500mm 的工作行程，主轴转速 12000rpm
- 采用高刚性进口滚珠丝杠及线轨，提高快移速度
- 主轴带中心出水功能，能铣、精铣、精镗、钻孔、扩孔等，可选配第四轴，达到四轴联动
- 采用 24 位圆盘式刀库，刀柄为 BT40
- 主要适用于加工板类、盘类、模具及中小型壳体类复杂零件

800mmx500mmX500mm, the upper shaft speed of 12000rpm

Adopts the high rigidity imported taste rolling screw and rail, the speed is fast

Raw shaft, center water function, can milling, fine milling, fine chain, drilling, expanding, etc., optional with the fourth axis, to achieve the four-axis linkage

It adopts 24-bit M disc knife library, and the tool handle is BT40

It is mainly suitable for processing complex parts such as plates, plates, molds and small and medium-sized shells



立式加工中心 GA-V5080

Vertical manufacture center GA-V5080

参数 Data	单位	GA-V5080
主轴最大转速 Maximun speed of spindle	rpm	12000
行程 X/Y/Z stroke	mm	800/500/500
工作台尺寸 size of the table	mm	900x450
承重能力 loading capacity	kg	500
伺服马达功率 X/Y/Z power of servo motor	kw	3.3/3.3/3.3
快速进给 fast move	mm/min	48000
切削速率 speed of cutting	mm/min	1-10000
定位精度 positioning precision	mm	0.008
重复定位精度 repositioning precision	mm	0.005
主轴功率 spindle power	kw	7.5/11
刀柄型式 type of holder		BT140
最大刀具 largest cut	mm	Φ80 (相邻有刀)
最大外形尺寸 largest size	mm	3300x2900x2700
机器重量 weight of the machine	kg	5000
数控系统 CNC system		SIEMENS 828D

GA-V5580

- 采用高刚性进口滚珠丝杠及线轨，三线机快移速度达 36m/min
- 皮带主轴功率 11/15kw，最大转速 8000-10000rpm
- 具备 24 位 BT40 圆盘式刀库，机械手臂式就近换刀
- 能铣、精铣、精镗、钻孔、扩孔、攻牙等，可选配第四轴，实现四轴联动
- 主要适用于板类、盘类、中小型壳体类及模具等复杂零件的加工；三线机偏中速重切钢件加工，两线一硬机偏低速开粗加工
- 具备拓展自动化连线功能，可实现自动上下料

Adopt imported ball screw and rail with high rigidity, the fast moving speed of three-wire machine is up to 36m/min.

Power of belt spindle is 11/15kw with a maximum speed of 8000-10000rpm.

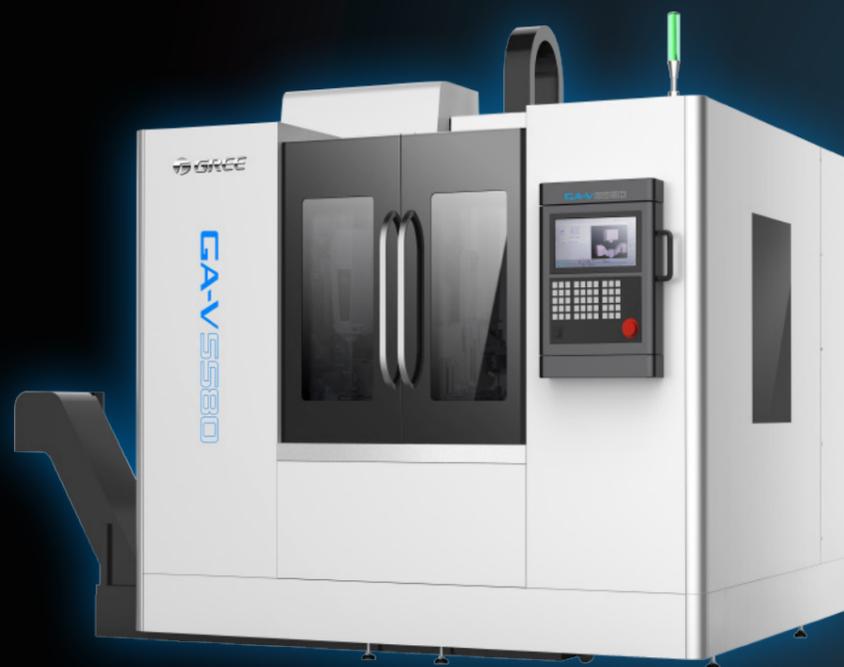
With a 24-bit BT40 disc knife library, mechanical arm for nearby knife.

Can milling, precision milling, precision hammer, drilling, reaming, tapping, etc., optional with the fourth axis, to achieve the four-axis linkage.

Mainly suitable for plate, plate, small and medium sized shell and mold and other complex parts processing.

Three line machine medium speed heavy cutting steel processing, two line one hard machine low speed rough machining.

It has the function of expanding automatic connection line and can realize automatic loading and unloading.



立式加工中心 GA-V5580

Vertical manufacture center GA-V5580

参数 Data	单位	GA-V5580
主轴最大转速 Maximun speed of spindle	rpm	8000-10000
行程 X/Y/Z stroke	mm	900/600/500
工作台尺寸 size of the table	mm	1050x600
承重能力 loading capacity	kg	600
伺服马达功率 X/Y/Z power of servo motor	kw	3/3/3
快速进给 fast move	mm/min	36000 (三线) /14000 (两线)
切削速率 speed of cutting	mm/min	1-8000
定位精度 positioning precision	mm	0.008
重复定位精度 repositioning precision	mm	0.005
主轴功率 spindle power	kw	11/15
刀柄型式 type of holder		BT40(Φ150)
最大刀具 largest cut	mm	Φ80 (相邻有刀)
最大外形尺寸 largest size	mm	3900x3000x2900
机器重量 weight of the machine	kg	6500
数控系统 CNC system		FANUC 0i-MF

GA-V1160

- 采用高刚性滚柱线轨及硬轨，强度高
- 具备 24 位 BT40 圆盘式刀库，机械手臂式就近换刀
- 可选配第四轴，实现四轴联动
- 大数据应用，具备数据采集、智能连线功能模块
- 具备拓展自动化连线功能，可实现自动上下料
- 主要适用于模具及铸件类等零件的加工

High rigidity roller rail and hard rail are adopted for high strength.

Equipped with a 24-bit BT40 disc cutter library, and the mechanical arm knife is changed nearby.

Optional with the fourth axis, the four-axis linkage.

Big data application, with function modules of data collection and intelligent connection.

With the function of expanding automatic connection line, it can realize automatic loading and unloading.

Mainly applicable to the processing of molds, castings and other parts.



立式加工中心 GA-V1160

Vertical manufacture center GA-V1160

参数 Data	单位	GA-V1160
主轴最大转速 Maximum speed of spindle	rpm	8000
行程 X/Y/Z stroke	mm	1100/600/600
工作台尺寸 size of the table	mm	1200x600
承重能力 loading capacity	kg	800
伺服马达功率 X/Y/Z power of servo motor	kw	3/3/3
快速进给 fast move	mm/min	30000/30000/16000
切削速率 speed of cutting	mm/min	1-8000
定位精度 positioning precision	mm	0.008
重复定位精度 repositioning precision	mm	0.006
主轴功率 spindle power	kw	11/15
刀柄型式 type of holder		BT40 (φ 150)
最大刀具 largest cut	mm	φ 80 (相邻有刀)
最大外形尺寸 largest size	mm	4100 x2900x2900
机器重量 weight of the machine	kg	7500
数控系统 CNC system		FANUC 0i-MF

GA-V918

- 机床三轴采用硬轨形式，刚性好、行程大、承重力强，可实现加工大中型类工件
- 日本进口 THK 滚珠丝杠，保证高精度加工
- 可选直联主轴，高速状态下噪音小
- 低速时大扭转可保证重切功能，而高速时又保证高光洁度精加工
- 可选配各种系统满足各类客户需求
- 可选四五轴配置
- 24 位圆盘式刀库，BT50 刀柄，2.5s 高速换刀
- 主要适用于加工板类、盘类、模具及中型壳体类复杂零件

Apply the 3-axis hard railing type, good stiffness, large stroke, strong loading. Could achieve big type components machining.

Japanese THK ball thread, perform the high precision of the manufacturing.

Optional direct link machine, low late tone at high speed.

The big torque could guarantee the double cut function during the low speed. And also guarantee the high smoothness during the high speed.

Could select the different system to satisfy the customer.

Could choose the 4 or 5 axis for assembly.

ATC: 24 bit circle ATC, BT50 knife, 2.5s high speed transfer the knife.

Mainly used for the plate manufacture, plates, molds, and middle size shells difficult. components.



立式加工中心 GA-V918

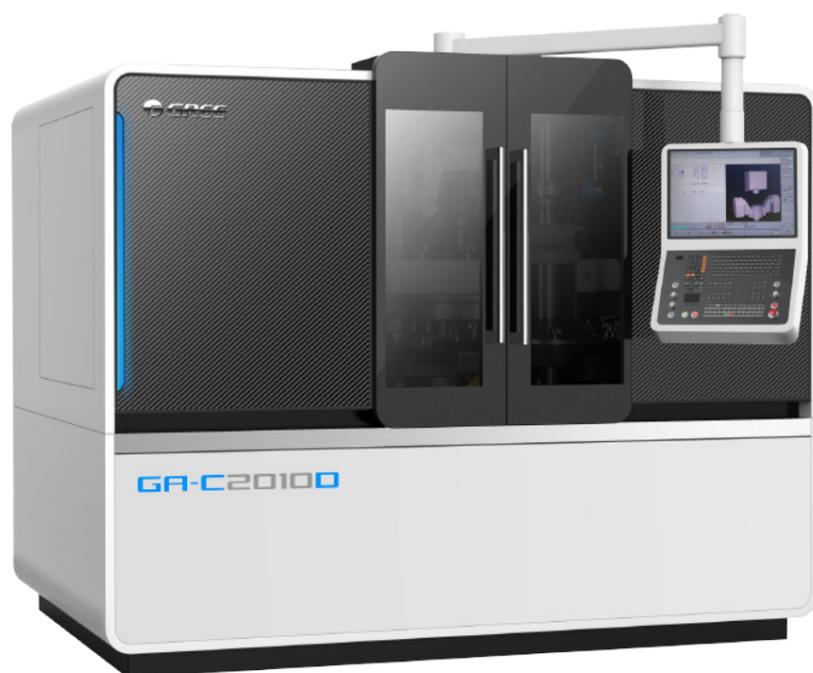
Vertical machining center GA-V918

参数 Data	单位	GA-V918
主轴最大转速 Maximum speed of spindle	rpm	8000
行程 X/Y/Z stroke	mm	1800/900/680
工作台尺寸 size of the table	mm	2000X900
承重能力 loading capacity	kg	1600
伺服马达功率 X/Y/Z power of servo motor	kw	4.4/4.4/4.4
快速进给 fast move	mm/min	15000
切削速率 speed of cutting	mm/min	1-12000
定位精度 positioning precision	mm	0.02
重复定位精度 repositioning precision	mm	0.01
主轴功率 spindle power	kw	15/18.5
刀柄型式 type of holder		BT50
最大刀具 largest cut	mm	φ 110 (相邻有刀)
最大外形尺寸 largest size	mm	5000X3300X3100
机器重量 weight of the machine	kg	12000
数控系统 CNC system		SIEMENS 828D

GA-2010D

- 自动上下料，一次装夹双面加工，最大 24 把刀具
- 平床身斜滑板结构，刚性好，占地面积小，利于排屑
- 可以实现机内不开门上下料，一进一出即实现双面加工
- 自研主轴，双主轴双通道设计，主轴间工件的直接交接
- 自研精密伺服刀塔，集成度高

Automatic loading and unloading, a double-sided clamping processing, maximum 24 knives. Flat bed slanting saddle structure, good rigidity, small floor area, conducive to chip removal. Can achieve the machine does not open the door up and down, a in and out that is to achieve double-sided processing. Self-developed spindle, double spindle and double channel design, direct handover of workpiece between spindle. Self-developed precision servo knife tower, high integration.



双主轴卧式数控车床 GA-2010D

Double spindle lathe GA-2010D

参数 Data	单位	GA-2010D
床身上最大回转直径 Maximum speed of spindle	mm	350
最大切削直径 Maximum cutting diameter	mm	200
最大切削长度 Maximum cutting length	mm	100
X 轴 /Z 轴行程 X/Z stroke	mm	140/190
主轴转速 speed of spindle	r/min	60-6000
主轴端部型式及代号 spindle end form and code name		A2-5
主轴孔直径 diameter of main shaft hole	mm	55
主轴电机功率 spindle power	KW	15
主轴最大输出扭矩 Maximum output torque of spindle	Nm	47
刀架形式及工位 tool rest form and station		12Dx2 伺服刀塔
定位精度 positioning precision	mm	0.008
重复定位精度 repositioning precision	mm	0.004
设备最大外形 largest size	mm	2500 x 1700 x 2300
机器重量 weight of the machine	kg	6000
数控系统 CNC system		SIEMENS/ FANUC

GA-C4050

- 具备最大加工直径为 $\phi 400\text{mm}$ ，最大加工长度 500mm 的加工能力，套筒式主轴单元最高转速可达 4500rpm
- 45° 整体铸件床身保证机床刚性和稳定性。采用德国进口力士乐直线导轨、FAG 专用丝杠轴承等高品质精密传动零部件，确保机床精度。X 轴、Z 轴定位精度 $\leq 8\mu\text{m}$ ，重复定位精度 $\leq 4\mu\text{m}$
- 可广泛应用于汽车、电子、造船、航空航天等行业盘轴类零件的车削加工

Have the Maximum machining diameter of $\phi 400\text{mm}$, and the Maximum processing length reached 500mm. The sleeve type spindle unit has the Maximum rotation rate of 4500rpm.

45° Using momobloc casting lathe bed to ensure its stiffness and stability. High quality precision drive parts such as Rexroth original linear rail and FAG brand special screw bearing which imported from Germany, ensure the accuracy of machine. As a result, the positioning precision of X/Z axis is $8\mu\text{m}$ and repositioning precision is $4\mu\text{m}$.

Widely used in turning of plate and axle parts of different industry such as Motor, Electronics, Shipbuilding and Aerospace.



卧式数控车床 GA-C4050

Horizontal CNC lathe GA-C4050

参数 Data	单位	GA-C4050
床身最大回转直径 Machine tool maximum turning diameter	mm	$\phi 450$
最大加工直径 Maximum machining diameter	mm	$\phi 400$
最大加工长度 Maximum processing length	mm	500
X 轴 / Z 轴最大行程 Maximum stroke of X/Z	mm	200/500
主轴最高转速 Maximum spindle speed	rpm	4500
轴端形式 Type of spindle-end		A2-6(主轴内孔 61mm)
主轴内孔锥度 Taper of spindle bore		1:20
定位精度 positioning precision	mm	0.008
重复定位精度 repositioning precision	mm	0.004
主轴功率 spindle power	kw	9
液压刀塔 Hydraulic drive knife tower		8D
最大外形尺寸 largest size	mm	$\phi 110$ (相邻有刀)
机器重量 weight of the machine	kg	3000
数控系统 CNC system		SIEMENS 828D

GA-CX3020

- 主轴刹车、高精度同轴编码器，可实现 C 轴分度铣削功能
- 45° 整体铸件床身，具有高刚性、高稳定性
- 工件角度定向装置，可自动识别工件角度并按对应的角度上料
- 桁架机械手一拖二设计、实现零件的自动化双面加工
- 可广泛应用 3C、5G、汽车、航空航天等行业的车削加工

Spindle brake, high precision coaxial encoder, can achieve C axis indexing milling function.

45 ° integral casting lathe bed, has high rigidity, high stability.

The workpiece Angle orientation device can automatically identify the workpiece Angle and feed according to the corresponding Angle.

Design and implement the automatic double-sided machining of the parts of the truss manipulator.

Can be widely used 3C, SG, automotive, aerospace and other industries turning processing.



卧式数控车床 GA-CX3020

Horizontal CNC lathe GA-CX3020

参数 Data	单位	GA-CX3020
床身上最大回转直径 Machine tool maximum turning diameter	mm	360
最大切削直径 Maximum cutting diameter	mm	320
最大切削长度 Maximum cutting length	mm	180
X 轴 /Z 轴行程 X/Z stroke	mm	450/380
主轴转速 X/Y/Z speed of spindle	r/min	4500
主轴端部型式及代号 spindle end form and code name		皮带式机械主轴 A2-6
主轴孔直径 diameter of main shaft hole	mm	61
主轴电机功率 spindle power	KW	7.5
主轴最大输出扭矩 Maximum output torque of spindle	Nm	120 (额定 70)
刀架形式及工位 tool rest form and station		排刀
定位精度 positioning precision	mm	0.008
重复定位精度 repositioning precision	mm	0.004
设备最大外形 largest size	mm	2250x1500x1800
机器重量 weight of the machine	kg	2000
数控系统 CNC system		广数

GA-L1525

- 具备 2500X1500X800 的工作行程，主轴转速 6000rpm
- 采用高刚性进口滚珠丝杆及线轨，提高快移速度
- 主轴带中心出水功能，可实现高速钻铣
- 60 位刀库，自动换刀，BT50 刀柄
- 可进行立铣、钻、扩、铰、攻丝等加工工序，特别适用于加工各种形状复杂的二、三维凹凸模型及复杂的型腔和表面
- 配上万向头，直角头等功能附件，可进行手动五面加工

Have the stroke of 2500mmX1500mmX800mm, spindle speed 6000rpm.

Apply the high stiffness import ball thread and linear rail. Improve the moving speed.

The main shaft have the function with water flush, could achieve the high speed cutting.

ATC: 60 bits horizontal ATC, transfer the knife automatically, knife chooses BT50.

Can be used for milling, drilling, expanding, hinge and tapping, especially suitable for the processing of complex shapes of two or three dimensional concave convex models and complex cavity and surface.

With universal head, right Angle first class function accessory, can undertake manual five face processing.



龙门加工中心 GA-L1525

Double-column Machining center GA-L1525

参数 Data	单位	GA-L1525
主轴最大转速 Maximum speed of spindle	rpm	6000
行程 X/Y/Z stroke	mm	2500/1500/800
工作台尺寸 size of the table	mm	2500x1100
承重能力 loading capacity	kg	5000
伺服马达功率 X/Y/Z power of servo motor	kw	7.7/4.4/4.4
快速进给 fast move	mm/min	8000
切削速率 speed of cutting	mm/min	1-5000
定位精度 positioning precision	mm	0.02
重复定位精度 repositioning precision	mm	0.01
主轴功率 spindle power	kw	22/27
刀柄型式 type of holder		BT50
最大刀具 largest cut	mm	Φ250 (相邻有刀)
最大外形尺寸 largest size	mm	7660X5250X4070
机器重量 weight of the machine	kg	19000
数控系统 CNC system		SIEMENS 828D

4060 Drilling center 1 drag 2 machine loading and unloading

- 由 1 台格力 608S 工业机器人和 2 台格力自制 4060 钻攻中心联机，利用机器人、机床夹具实现工件自动上料、定位、夹紧和落料等动作，适用于加工节拍较快的产品。

By 1 GREE-608S industrial robot and 2 GREE-4060 drilling trapping center to the rail way line, the use of robots, machine tool fixture workpiece automatic feeding, positioning, clamping and blanking etc, applicable to the processing of products beat faster.



4060 钻攻机 1拖2 上下料

4060 Drilling center 1 drag 2 machine loading and unloading

参数 Data	单位	1拖2加工线
机器人 robot		608S
机床定位精度 machine tool repositioning precision	mm	0.006
机床重复定位精度 robot repositioning precision	mm	0.004
机器人定位精度 robot positioning accuracy	mm	0.008
机器人重复定位精度 robot positioning repeatability	mm	0.006
手机壳料仓储存量 mobile phone shell silo stock	件	300

1 drag 8 mobile phone cover automatic production line

- 由 2 台格力 608S 工业机器人和 8 台格力 4060 钻攻中心以地轨方式行走联机，利用机器人、机床夹具实现工件自动上料、定位、夹紧和落料等动作，实现毛坯到成品后盖加工。配备信息化管理看板，可实时获取机器人、机床的运行状态与加工数据。

By 2 GREE-608S industrial robots and 8 GREE-4060 drilling trapping center to the rail way line, the use of robots, machine tool fixture workpiece automatic feeding, positioning, clamping and blanking etc, realize the blank to the finished product cover processing.



1拖8手机后盖自动化加工连线

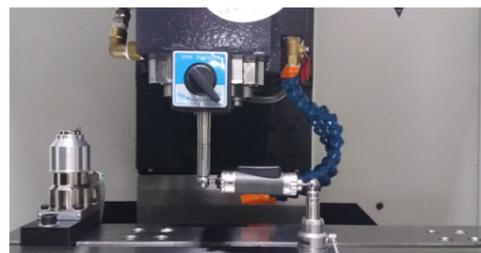
1 drag 8 mobile phone cover automatic production line

参数 Data	单位	1拖8加工线
线体长度 length of automatic line	m	12
第七轴最大行走速度 seventh axis maximum walking speed	m/min	60
第七轴行走定位精度 seventh axis walking positioning accuracy	mm	±0.05
第七轴行走重复定位精度 seventh axis walking positioning repeatability	mm	±0.03
手机壳料仓储存量 mobile phone shell silo stock	件	300

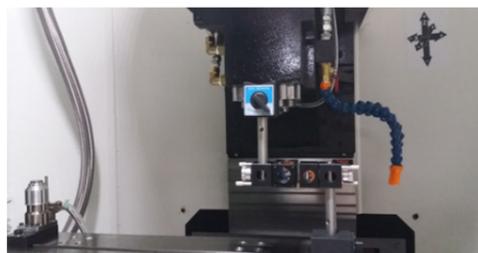
B 配件与数控系统

ACCESSORIES AND NC SYSTEM

高精度检测
Precision testing



球杆仪检测



激光干涉仪检测



动平衡检测

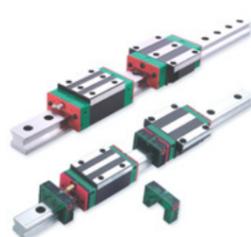


三次元检测

精密配件
Precision accessories



精密滚珠丝杠



精密直线导轨



精密联轴器



精密轴承

高性能控制系统
High performance control system



三菱控制系统



发那科控制系统



西门子控制系统

多形式刀库
Multiple magazine



因机型不断改进，规格如有变更不再另行通知，请以实物为准！
Due to the continuous improvement of models, specifications are subject to change without notice!

C 技术服务

TECHNICAL SERVICE

售后服务



从安装到投入使用
设备的每一步应用都有熟练的技术人员提供支援



24 小时内到达现场服务
客户提出故障报修需求, 反应快速, 24 小时内售后人员到达现场服务



定期回访
客户满意是公司一直追求的目标, 定期回访了解完善点, 进一步改善产品和服务品质



服务网络覆盖全国
售后服务网点遍布国内, 可覆盖华北、华东、西南、华南等全部区域



