

铁骥五轴机 专业五轴整机制造商

TEGI 5-AXIS MACHINE
Professional 5-Axis Machine tool builder

高刚性 | 高精度 | 高效率 | 高稳定性 | 重载 | 重切

HIGH RIGIDITY | HIGH PRECISION | HIGH PRODUCTIVITY | HIGH STABILITY | HEAVY LOAD | HEAVY CUTTING



抖音扫一扫
海量真实加工视频



扫一扫加微信

东莞华汇铁骥数控机床有限公司

Dongguan Huahui TEGI CNC Machine Tool Co., Ltd

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东莞华汇铁骥数控机床有限公司

Dongguan Huahui TEGI CNC Machine Tool Co., Ltd



铁骥五轴机的三大核心价值

The 3 core values of TEGI 5-Axis Machine

精度
ACCURACY

精度持久性
ACCURACY DURABILITY

效率
PRODUCTIVITY



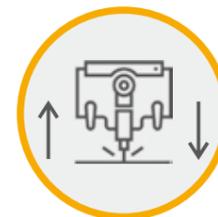
精度 ACCURACY

- 直线度和垂直度 $5\mu\text{m}/\text{m}$ ，严格保证几何精度。
- 采用高品质铸件，且均有二次回火。
- 机床导轨面使用高数量点位人工铲刮。
- 雷尼绍XM-60多光束激光干涉仪，XK10激光校准仪，XR20-W无线型回转轴校准装置，QC20球杆仪，全程管控机床组装精度。
- Squareness tolerance & straightness tolerance $5\mu\text{m}/\text{m}$, Geometric accuracy is strictly guaranteed.
- High quality castings with secondary tempering.
- The guide surface of the machine tool is manually scraped with a high number of points.
- Renishaw XM-60 multi-axis calibrator, XK10 alignment laser, XR20 rotary axis calibrator, QC20 ballbar, control the whole process of machine tool assembly accuracy.



精度持久性 ACCURACY DURABILITY

- 机床采用整体底座，底座与侧壁融为一体。
- Z轴采用箱中箱结构，增强Z轴刚性。
- Y轴采用天车龙门双驱结构，有效减少Y轴移动部件重量。
- 摇篮采用3DDR结构，A轴为镶嵌式、法兰安装。
- The machine tool is an integral base, and the base is integrated with the side wall.
- The Z-axis is a box-in-box system, which enhances the rigidity of the Z-axis.
- Y-axis is a gantry design, which effectively reduces the weight of Y-axis moving parts.
- The Swivel and rotary table is of 3DDR design, and the A-axis is insert mounting and flange fixing.



效率 PRODUCTIVITY

- 科学的机电一体化设计，每个电机都经过精密计算，使用高过载能力的电机。
- 通过有限元分析，保证刚性的情况下，优化运动部件的重量和内部结构。
- 使用高配数控系统，五轴联动算力强，动态响应快。
- Scientific mechatronics design, each motor is carefully calculated, the use of high overload motors.
- Through Finite-Elements-Method, the weight and internal structure of the moving parts are optimized while ensuring rigidity.
- The use of extreme CNC system, 5-axis RTCP operating speed fast, dynamic response fast.

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Company Profile

公司简介

东莞华汇铁骥数控机床有限公司是一家专业制造五轴加工中心的厂家，位于东莞中堂镇，工厂车间面积近万平，员工近百人。拥有光机，摇篮工作台等核心部件自主知识产权，目前专注于制造三大类五轴加工中心中的摇篮五轴门类，工作台直径从最小160毫米到最大一米二共8款机型。具体如下: TG160, TG260, TG380, TG450, TG650, TG800, TG1000, TG1200。

Dongguan Huahui TEGI CNC Machine Tool Co., Ltd. is a professional 5-axis machine tool builder. location in Zhongtang town, Dongguan. The workshop area of the factory is ~10,000 square meters, employee~100. swivel& rotatry table and machine structure have independent intellectual property rights, mainly focus in table to table 5-axis machine, table diameter from 160mm to 1,200mm. machine type: TG160, TG260, TG380, TG450, TG650, TG800, TG1000, TG1200.

The concept of TEGI 5 Axis CNC

铁骥五轴造机床理念

HIGH PRECISION

高精度

精度是机床核心价值第一位
Accuracy is the first.

HIGH RIGIDITY

高刚性

无论是加工有色金属还是黑色金属，高刚性是高精度和高稳定性的前提。

Whether it is cutting non-ferrous metals or ferrous metals, high rigidity is the precondition of high precision and high stability.



HIGH PRODUCTIVITY

高效率

只有精度没有效率，机床无法形成生产力

Only accuracy without efficiency, machine tools can not be productivity.



HEAVY CUTTING

重切

主轴扭矩，直线轴刚性，摇篮扭矩设计选型都是普通机型的1.5到2.5倍

Motor-spindle torque, linear axis rigidity, table torque design and selection are 1.5 to 2.5 times of common machine type.



HIGH STABILITY

高稳定性

稳定性是实现长时间生产的必要条件。

Stability is a necessary condition for continues production.



HEAVY LOAD

重载

3DDR摇篮，A轴双驱，比同规格的普通工作台载重高1.3到2倍。

3DDR design table, A-axis gantry, 1.3 to 2 times higher than common machine.



TG1200

X1200 / Y1450 / Z1000

1.2m
工作台直径
Table diameter

1.4m
摇篮跨距
C-axis rotary-diameter
at A-axis center

3000kg
可加工工件重达
Table Load max.

- ▶ 整机9个伺服轴电机、RTCP真五轴联动；
- ▶ 全对称、重心驱动、箱中箱，天车式龙门架构摇篮五轴机，主轴刚性比侧挂式主轴箱更具优势
- ▶ Z轴4导轨、方滑枕，刚性拉满；
- ▶ A轴对称双电机，3DD直驱摇篮，五轴点不漂移，大扭矩、长寿命。

- ▶ Totally 9 axis infeed motor, real RTCP.
- ▶ Geometrical symmetry, drive center gravity, box-in-box. Y axis gantry drive, Z axis rigidity much more than side hanging box.
- ▶ Z axis 4 guide, square slider, more rigidity.
- ▶ A axis dual-motor, 3DD table design, RTCP reference is constant, high torque, long lifetime.



项目Item		规格参数Value	单位Unit
加工范围 Working range	工作台直径 Clamping surface	Ø1,200	mm
	工件最大回转直径 C-axis rotary-diameter at A-axis center	Ø1,400	mm
	台面低于A轴线 Distance A-axis-center to rotary-table	100	mm
	工件(含夹具)最大高度 A-axis swivel diameter(swing) at X-axis center	1,100	mm
	工件和夹具最大重量 Table Load max.	3,000	kg
进给轴 Feed-drive system	X/Y/Z轴行程 X/Y/Z axis traverse path	1,200/1,450/1,000	mm
	A轴行程 Swivel range of A-axis	-140+140	°
	C轴行程 Swivel range of C-axis	N*360	°
	主轴端面至工作台距离 Distance spindle - table min./max.	180-1,180	mm
	X/Y/Z 轴最大速度 Max. rapid travel X/Y/Z axis	72	m/min
	A/C轴额定转速 A/C axis rate speed	30/50	rpm
	A/C轴最大扭矩 A/C axis max. torque	32,000/8,000	Nm
主轴 Motor-spindle drive	主轴刀柄接口 Cutting-tool interface	HSK-A100	
	主轴最大转速 Motor-spindle max. speed	12,000	rpm
	主轴扭矩S1/S6-25% Motor-spindle torque S1/S6-25%	300/510	Nm
刀库 Tool magazine	刀库容量 Tool positions	36[72]	T
	最大刀具直径/长度 Max. tool diameter/length	125/425	mm
	最大刀具重量 Max. tool weight	30	kg
	换刀时间 Tool-change-cycle	10	s
精度 Accuracy	X/Y/Z轴闭环控制 Linear encoder X/Y/Z-axis	标配 Standard	
	A/C闭环控制 Angle encoder A/C-axis	标配 Standard	
	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy ISO 10791-4:1998	0.005	mm
	A/C轴定位精度 A/C axis positioning accuracy ISO 10791-4:1998	5	角秒 ARCSEC
	X/Y/Z轴重复定位精度 X/Y/Z axis repeat positioning accuracy ISO 10791-4:1998	0.003	mm
A/C轴重复定位精度 A/C axis repeat positioning accuracy ISO 10791-4:1998	3	角秒 ARCSEC	
主机部分外形尺寸 长/宽/高(正面机床) Dimensions length/width/height (front)		3,300/5,600/3,800	mm
机床重量(不含附件) Machine weight (Not include accessories)		35,000	kg
电气总容量 Power consumption		120	KVA

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TG1000

X1000 / Y1200 / Z800

1.0m
工作台直径
Table diameter

1.2m
摇篮跨距
C-axis rotary-diameter
at A-axis center

2000kg
可加工工件重达
Table Load max.

- ▶ 整机9个伺服轴电机、RTCP真五轴联动；
- ▶ 全对称、重心驱动、箱中箱，天车式龙门架构摇篮五轴机，主轴刚性比侧挂式主轴箱更具优势
- ▶ Z轴4导轨、方滑枕，刚性拉满；
- ▶ A轴对称双电机，3DD直驱摇篮，五轴点不漂移，大扭矩、长寿命。

- ▶ Totally 9 axis infeed motor, real RTCP.
- ▶ Geometrical symmetry, drive center gravity, box-in-box. Y axis gantry drive, Z axis rigidity much more than side hanging box.
- ▶ Z axis 4 guide, square slider, more rigidity.
- ▶ A axis dual-motor, 3DD table design, RTCP reference is constant, high torque, long lifetime.



项目Item		规格参数Value	单位Unit
加工范围 Working range	工作台直径 Clamping surface	Ø1,000	mm
	工件最大回转直径 C-axis rotary-diameter at A-axis center	Ø1,200	mm
	台面低于A轴线 Distance A-axis-center to rotary-table	100	mm
	工件(含夹具)最大高度 A-axis swivel diameter(swing) at X-axis center	900	mm
	工件和夹具最大重量 Table Load max.	2,000	kg
进给轴 Feed-drive system	X/Y/Z轴行程 X/Y/Z axis traverse path	1,000/1,200/800	mm
	A轴行程 Swivel range of A-axis	-140+140	°
	C轴行程 Swivel range of C-axis	N*360	°
	主轴端面至工作台距离 Distance spindle - table min./max.	180-980	mm
	X/Y/Z 轴最大速度 Max. rapid travel X/Y/Z axis	72	m/min
	A/C轴额定转速 A/C axis rate speed	30/50	rpm
	A/C轴最大扭矩 A/C axis max. torque	12,000/6,000	Nm
主轴 Motor-spindle drive	主轴刀柄接口 Cutting-tool interface	HSK-A100	
	主轴最大转速 Motor-spindle max. speed	12,000	rpm
	主轴扭矩S1/S6-25% Motor-spindle torque S1/S6-25%	300/510	Nm
刀库 Tool magazine	刀库容量 Tool positions	36[72]	T
	最大刀具直径/长度 Max. tool diameter/length	125/425	mm
	最大刀具重量 Max. tool weight	30	kg
	换刀时间 Tool-change-cycle	10	s
精度 Accuracy	X/Y/Z轴闭环控制 Linear encoder X/Y/Z-axis	标配 Standard	
	A/C闭环控制 Angle encoder A/C-axis	标配 Standard	
	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy ISO 10791-4:1998	0.005	mm
	A/C轴定位精度 A/C axis positioning accuracy ISO 10791-4:1998	5	角秒 ARCSEC
	X/Y/Z轴重复定位精度 X/Y/Z axis repeat positioning accuracy ISO 10791-4:1998	0.003	mm
A/C轴重复定位精度 A/C axis repeat positioning accuracy ISO 10791-4:1998	3	角秒 ARCSEC	
主机部分外形尺寸 长/宽/高(正面机床) Dimensions length/width/height (front)		3,000/5,000/3,200	mm
机床重量(不含附件) Machine weight (Not include accessories)		30,000	kg
电气总容量 Power consumption		80	KVA

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TG800

X800 / Y1000 / Z600

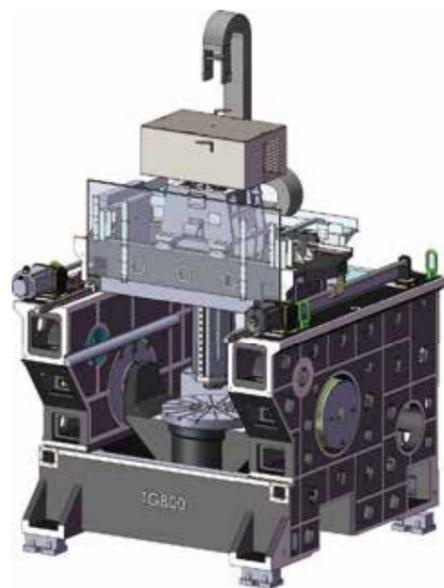
800
工作台直径
Table diameter

1.1m
摇篮跨距
C-axis rotary-diameter
at A-axis center

1500kg
可加工工件重达
Table Load max.

- 整机7个伺服轴电机、RTCP真五轴联动；
- 全对称、重心驱动、箱中箱，天车式龙门架构摇篮五轴机，主轴刚性比侧挂式主轴箱更具优势
- Z轴4导轨、方滑枕，刚性拉满；
- A轴对称双电机，3DD直驱摇篮，五轴点不漂移，大扭矩、长寿命。

- Totally 7 axis infeed motor, real RTCP.
- Geometrical symmetry, drive center gravity, box-in-box. Y axis gantry drive, Z axis rigidity much more than side hanging box.
- Z axis 4 guide, square slider, more rigidity.
- A axis dual-motor, 3DD table design, RTCP reference is constant, high torque, long lifetime.



项目Item		规格参数Value	单位Unit
加工范围 Working range	工作台直径 Clamping surface	Ø800	mm
	工件最大回转直径 C-axis rotary-diameter at A-axis center	Ø1,100	mm
	台面低于A轴线 Distance A-axis-center to rotary-table	100	mm
	工件(含夹具)最大高度 A-axis swivel diameter(swing) at X-axis center	700	mm
	工件和夹具最大重量 Table Load max.	1,500	kg
进给轴 Feed-drive system	X/Y/Z轴行程 X/Y/Z axis traverse path	800/1,000/600	mm
	A轴行程 Swivel range of A-axis	-140+140	°
	C轴行程 Swivel range of C-axis	N*360	°
	主轴端面至工作台距离 Distance spindle - table min./max.	150-750	mm
	X/Y/Z 轴最大速度 Max. rapid travel X/Y/Z axis	72	m/min
	A/C轴额定转速 A/C axis rate speed	30/50	rpm
	A/C轴最大扭矩 A/C axis max. torque	7,000/1,500	Nm
主轴 Motor-spindle drive	主轴刀柄接口 Cutting-tool interface	HSK-A63	
	主轴最大转速 Motor-spindle max. speed	18,000	rpm
	主轴扭矩S1/S6-25% Motor-spindle torque S1/S6-25%	177/292	Nm
刀库 Tool magazine	刀库容量 Tool positions	36	T
	最大刀具直径/长度 Max. tool diameter/length	95/350	mm
	最大刀具重量 Max. tool weight	8	kg
	换刀时间 Tool-change-cycle	10	s
精度 Accuracy	X/Y/Z轴闭环控制 Linear encoder X/Y/Z-axis	标配 Standard	
	A/C闭环控制 Angle encoder A/C-axis	标配 Standard	
	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy ISO 10791-4:1998	0.005	mm
	A/C轴定位精度 A/C axis positioning accuracy ISO 10791-4:1998	5	角秒 ARCSEC
	X/Y/Z轴重复定位精度 X/Y/Z axis repeat positioning accuracy ISO 10791-4:1998	0.003	mm
A/C轴重复定位精度 A/C axis repeat positioning accuracy ISO 10791-4:1998	3	角秒 ARCSEC	
主机部分外形尺寸 长/宽/高(正面机床) Dimensions length/width /height (front)		2,400/4,100/2,600	mm
机床重量(不含附件) Machine weight (Not include accessories)		17,000	kg
电气总容量 Power consumption		80	KVA

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TG650

X650 / Y800 / Z550

650
工作台直径
Table diameter

800
摇篮跨距
C-axis rotary-diameter
at A-axis center

1000kg
可加工工件重达
Table Load max.

- ▶ 整机7个伺服轴电机、RTCP真五轴联动；
- ▶ 全对称、重心驱动、箱中箱，天车式龙门架构摇篮五轴机，主轴刚性比侧挂式主轴箱更具优势
- ▶ Z轴4导轨、方滑枕，刚性拉满；
- ▶ A轴对称双电机，3DD直驱摇篮，五轴点不漂移，大扭矩、长寿命。

- ▶ Totally 7 axis infeed motor, real RTCP.
- ▶ Geometrical symmetry, drive center gravity, box-in-box. Y axis gantry drive, Z axis rigidity much more than side hanging box.
- ▶ Z axis 4 guide, square slider, more rigidity.
- ▶ A axis dual-motor, 3DD table design, RTCP reference is constant, high torque, long lifetime.



项目Item		规格参数Value	单位Unit
加工范围 Working range	工作台直径 Clamping surface	Ø650	mm
	工件最大回转直径 C-axis rotary-diameter at A-axis center	Ø800	mm
	台面低于A轴线 Distance A-axis-center to rotary-table	100	mm
	工件(含夹具)最大高度 A-axis swivel diameter(swing) at X-axis center	600	mm
	工件和夹具最大重量 Table Load max.	1,000	kg
进给轴 Feed-drive system	X/Y/Z轴行程 X/Y/Z axis traverse path	650/800/550	mm
	A轴行程 Swivel range of A-axis	-140+140	°
	C轴行程 Swivel range of C-axis	N*360	°
	主轴端面至工作台距离 Distance spindle - table min./max.	150-700	mm
	X/Y/Z 轴最大速度 Max. rapid travel X/Y/Z axis	48	m/min
	A/C轴额定转速 A/C axis rate speed	30/50	rpm
	A/C轴最大扭矩 A/C axis max. torque	4,500/1,350	Nm
主轴 Motor-spindle drive	主轴刀柄接口 Cutting-tool interface	HSK-A63	
	主轴最大转速 Motor-spindle max. speed	16,000	rpm
	主轴扭矩S1/S6-25% Motor-spindle torque S1/S6-25%	100/120	Nm
刀库 Tool magazine	刀库容量 Tool positions	36	T
	最大刀具直径/长度 Max. tool diameter/length	95/300	mm
	最大刀具重量 Max. tool weight	8	kg
	换刀时间 Tool-change-cycle	10	s
精度 Accuracy	X/Y/Z轴闭环控制 Linear encoder X/Y/Z-axis	标配 Standard	
	A/C闭环控制 Angle encoder A/C-axis	标配 Standard	
	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy ISO 10791-4:1998	0.005	mm
	A/C轴定位精度 A/C axis positioning accuracy ISO 10791-4:1998	5	角秒 ARCSEC
	X/Y/Z轴重复定位精度 X/Y/Z axis repeat positioning accuracy ISO 10791-4:1998	0.003	mm
A/C轴重复定位精度 A/C axis repeat positioning accuracy ISO 10791-4:1998	3	角秒 ARCSEC	
主机部分外形尺寸 长/宽/高(正面机床) Dimensions length/width /height (front)		2,300/3,800/2,500	mm
机床重量(不含附件) Machine weight (Not include accessories)		11,000	kg
电气总容量 Power consumption		55	KVA

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TG450

X460 / Y600 / Z400

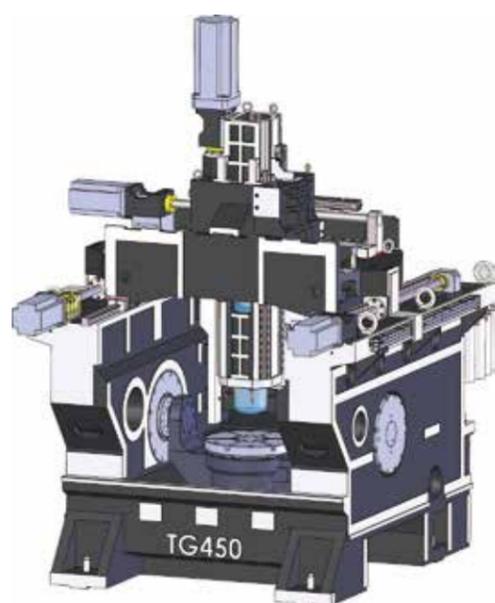
450
工作台直径
Table diameter

670
摇篮跨距
C-axis rotary-diameter
at A-axis center

500kg
可加工工件重达
Table Load max.

- ▶ 整机7个伺服轴电机、RTCP真五轴联动；
- ▶ 全对称、重心驱动、箱中箱，天车式龙门架摇篮五轴机，主轴刚性比侧挂式主轴箱更具优势
- ▶ Z轴4导轨、方滑枕，刚性拉满；
- ▶ A轴对称双电机，3DD直驱摇篮，五轴点不漂移，大扭矩、长寿命。

- ▶ Totally 7 axis infeed motor, real RTCP.
- ▶ Geometrical symmetry, drive center gravity, box-in-box. Y axis gantry drive, Z axis rigidity much more than side hanging box.
- ▶ Z axis 4 guide, square slider, more rigidity.
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项目Item		规格参数Value	单位Unit
加工范围 Working range	工作台直径 Clamping surface	Ø450	mm
	工件最大回转直径 C-axis rotary-diameter at A-axis center	Ø670	mm
	台面低于A轴线 Distance A-axis-center to rotary-table	75	mm
	工件(含夹具)最大高度 A-axis swivel diameter(swing) at X-axis center	500	mm
	工件和夹具最大重量 Table Load max.	500	kg
进给轴 Feed-drive system	X/Y/Z轴行程 X/Y/Z axis traverse path	460/600/400	mm
	A轴行程 Swivel range of A-axis	-140+140	°
	C轴行程 Swivel range of C-axis	N*360	°
	主轴端面至工作台距离 Distance spindle - table min./max.	150-550	mm
	X/Y/Z 轴最大速度 Max. rapid travel X/Y/Z axis	48	m/min
	A/C轴额定转速 A/C axis rate speed	30/50	rpm
	A/C轴最大扭矩 A/C axis max. torque	1,100/400	Nm
主轴 Motor-spindle drive	主轴刀柄接口 Cutting-tool interface	HSK-A63	
	主轴最大转速 Motor-spindle max. speed	16,000	rpm
	主轴扭矩S1/S6-25% Motor-spindle torque S1/S6-25%	85/102	Nm
刀库 Tool magazine	刀库容量 Tool positions	36	T
	最大刀具直径/长度 Max. tool diameter/length	95/300	mm
	最大刀具重量 Max. tool weight	8	kg
	换刀时间 Tool-change-cycle	10	s
精度 Accuracy	X/Y/Z轴闭环控制 Linear encoder X/Y/Z-axis	选配 Option	
	A/C闭环控制 Angle encoder A/C-axis	标配 Standard	
	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy ISO 10791-4:1998	0.005	mm
	A/C轴定位精度 A/C axis positioning accuracy ISO 10791-4:1998	5	角秒 ARCSEC
	X/Y/Z轴重复定位精度 X/Y/Z axis repeat positioning accuracy ISO 10791-4:1998	0.003	mm
A/C轴重复定位精度 A/C axis repeat positioning accuracy ISO 10791-4:1998	3	角秒 ARCSEC	
主机部分外形尺寸 长/宽/高(正面机床) Dimensions length/width /height (front)		2,100/3,650/2,400	mm
机床重量(不含附件) Machine weight (Not include accessories)		7,500	kg
电气总容量 Power consumption		40	KVA

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TG380

X400 / Y580 / Z380

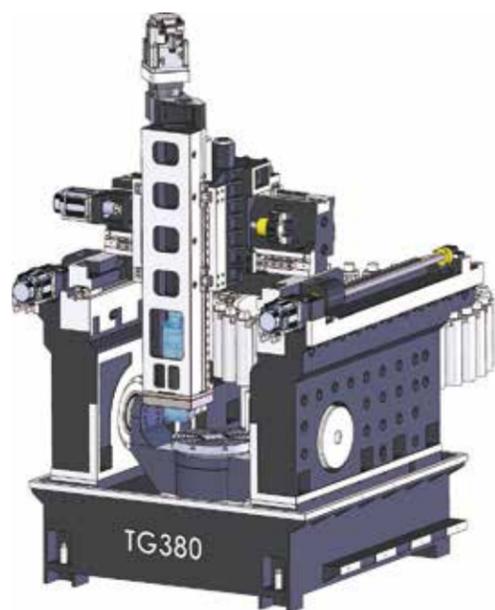
380
工作台直径
Table diameter

600
摇篮跨距
C-axis rotary-diameter
at A-axis center

300kg
可加工工件重达
Table Load max.

- ▶ 整机7个伺服轴电机、RTCP真五轴联动；
- ▶ 全对称、重心驱动，天车式龙门架构摇篮五轴机，主轴刚性比侧挂式主轴箱更具优势
- ▶ Z轴3导轨、刚性拉满；
- ▶ A轴对称双电机，3DD直驱摇篮，五轴点不漂移，大扭矩、长寿命。

- ▶ Totally 7 axis infeed motor, real RTCP.
- ▶ Geometrical symmetry, drive center gravity. Y axis gantry drive, Z axis rigidity much more than side hanging box.
- ▶ Z axis 3 guide, more rigidity.
- ▶ A axis dual-motor, 3DD table design, RTCP reference is constant, high torque, long lifetime.



项目Item		规格参数Value	单位Unit
加工范围 Working range	工作台直径 Clamping surface	Ø380	mm
	工件最大回转直径 C-axis rotary-diameter at A-axis center	Ø600	mm
	台面低于A轴线 Distance A-axis-center to rotary-table	75	mm
	工件(含夹具)最大高度 A-axis swivel diameter(swing) at X-axis center	500	mm
	工件和夹具最大重量 Table Load max.	300	kg
进给轴 Feed-drive system	X/Y/Z轴行程 X/Y/Z axis traverse path	400/580/380	mm
	A轴行程 Swivel range of A-axis	-140+140	°
	C轴行程 Swivel range of C-axis	N*360	°
	主轴端面至工作台距离 Distance spindle - table min./max.	150-530	mm
	X/Y/Z 轴最大速度 Max. rapid travel X/Y/Z axis	48	m/min
	A/C轴额定转速 A/C axis rate speed	30/50	rpm
	A/C轴最大扭矩 A/C axis max. torque	600/200	Nm
主轴 Motor-spindle drive	主轴刀柄接口 Cutting-tool interface	HSK-A63	
	主轴最大转速 Motor-spindle max. speed	20,000	rpm
	主轴扭矩S1/S6-25% Motor-spindle torque S1/S6-25%	47/57	Nm
刀库 Tool magazine	刀库容量 Tool positions	36	T
	最大刀具直径/长度 Max. tool diameter/length	95/300	mm
	最大刀具重量 Max. tool weight	8	kg
	换刀时间 Tool-change-cycle	10	s
精度 Accuracy	X/Y/Z轴闭环控制 Linear encoder X/Y/Z-axis	选配 Option	
	A/C闭环控制 Angle encoder A/C-axis	标配 Standard	
	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy ISO 10791-4:1998	0.005	mm
	A/C轴定位精度 A/C axis positioning accuracy ISO 10791-4:1998	5	角秒 ARCSEC
	X/Y/Z轴重复定位精度 X/Y/Z axis repeat positioning accuracy ISO 10791-4:1998	0.003	mm
A/C轴重复定位精度 A/C axis repeat positioning accuracy ISO 10791-4:1998	3	角秒 ARCSEC	
主机部分外形尺寸 长/宽/高(正面机床) Dimensions length/width /height (front)		2,000/3,000/3,100	mm
机床重量(不含附件) Machine weight (Not include accessories)		6,500	kg
电气总容量 Power consumption		40	KVA

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TG260

X280 / Y460 / Z300

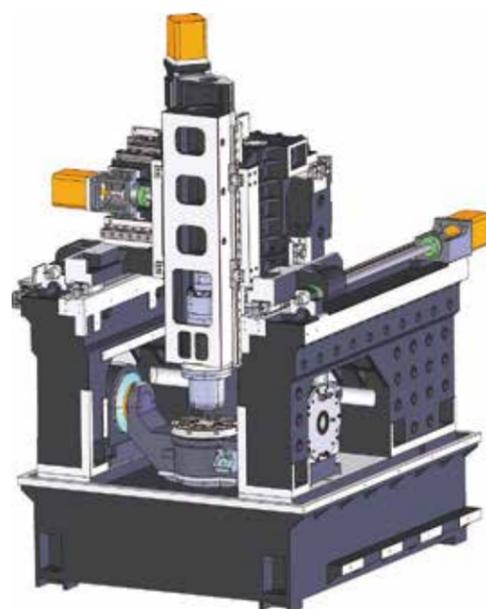
260
工作台直径
Table diameter

520
摇篮跨距
C-axis rotary-diameter
at A-axis center

200kg
可加工工件重达
Table Load max.

- ▶ 整机7个伺服轴电机、RTCP真五轴联动；
- ▶ 全对称、重心驱动，天车式龙门架构摇篮五轴机，主轴刚性比例挂式主轴箱更具优势
- ▶ Z轴3导轨、刚性拉满；
- ▶ A轴对称双电机，3DD直驱摇篮，五轴点不漂移，大扭矩、长寿命。

- ▶ Totally 7 axis infeed motor, real RTCP.
- ▶ Geometrical symmetry, drive center gravity. Y axis gantry drive, Z axis rigidity much more than side hanging box.
- ▶ Z axis 3 guide, more rigidity.
- ▶ A axis dual-motor, 3DD table design, RTCP reference is constant, high torque, long lifetime.



项目Item		规格参数Value	单位Unit
加工范围 Working range	工作台直径 Clamping surface	Ø260	mm
	工件最大回转直径 C-axis rotary-diameter at A-axis center	Ø520	mm
	台面低于A轴线 Distance A-axis-center to rotary-table	35	mm
	工件(含夹具)最大高度 A-axis swivel diameter(swing) at X-axis center	350	mm
	工件和夹具最大重量 Table Load max.	150	kg
进给轴 Feed-drive system	X/Y/Z轴行程 X/Y/Z axis traverse path	280/580/300	mm
	A轴行程 Swivel range of A-axis	-140+140	°
	C轴行程 Swivel range of C-axis	N*360	°
	主轴端面至工作台距离 Distance spindle - table min./max.	150-420	mm
	X/Y/Z 轴最大速度 Max. rapid travel X/Y/Z axis	48	m/min
	A/C轴额定转速 A/C axis rate speed	30/50	rpm
	A/C轴最大扭矩 A/C axis max. torque	415/180	Nm
主轴 Motor-spindle drive	主轴刀柄接口 Cutting-tool interface	HSK-A50	
	主轴最大转速 Motor-spindle max. speed	20,000	rpm
	主轴扭矩S1/S6-25% Motor-spindle torque S1/S6-25%	28/34	Nm
刀库 Tool magazine	刀库容量 Tool positions	24	T
	最大刀具直径/长度 Max. tool diameter/length	40/280	mm
	最大刀具重量 Max. tool weight	2.5	kg
	换刀时间 Tool-change-cycle	6	s
精度 Accuracy	X/Y/Z轴闭环控制 Linear encoder X/Y/Z-axis	选配 Option	
	A/C闭环控制 Angle encoder A/C-axis	标配 Standard	
	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy ISO 10791-4:1998	0.005	mm
	A/C轴定位精度 A/C axis positioning accuracy ISO 10791-4:1998	5	角秒 ARCSEC
	X/Y/Z轴重复定位精度 X/Y/Z axis repeat positioning accuracy ISO 10791-4:1998	0.003	mm
A/C轴重复定位精度 A/C axis repeat positioning accuracy ISO 10791-4:1998	3	角秒 ARCSEC	
主机部分外形尺寸 长/宽/高(正面机床) Dimensions length/width /height (front)	1,800/2,300/2,300	mm	
机床重量(不含附件) Machine weight (Not include accessories)	5,000	kg	
电气总容量 Power consumption	30	KVA	

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TG160



120/160

工作台直径
Table diameter

- ▶ 铝合金叶轮高速高精加工机，RTCP真五轴联动；
- ▶ 原创超紧凑小龙门结构，占地1.4m*1.4m；
- ▶ AC双DD直驱摇篮，市面上最小体积，C轴扭矩30NM（同级别只有9NM），大扭矩、长寿命。
- ▶ Aluminum alloy impeller high speed machining center, real RTCP.
- ▶ Innovative compact gantry design, floor space 1.4m*1.4m.
- ▶ A and C axis direct drive swivel table, most compact size on the market, C axis torque 30Nm(common machine only 9Nm), high torque, long lifetime.



项目Item		规格参数Value	单位Unit
加工范围 Working range	工作台直径 Clamping surface	Ø160	mm
	工件最大回转直径 C-axis rotary-diameter at A-axis center	Ø160	mm
	台面低于A轴线 Distance A-axis-center to rotary-table	31.5	mm
	工件(含夹具)最大高度 A-axis swivel diameter(swing) at X-axis center	150	mm
	工件和夹具最大重量 Table Load max.	20(水平 horizontal) 15(倾斜 vertical)	kg
进给轴 Feed-drive system	X/Y/Z轴行程 X/Y/Z axis traverse path	350/350/220	mm
	A轴行程 Swivel range of A-axis	-140+140	°
	C轴行程 Swivel range of C-axis	N*360	°
	主轴端面至工作台距离 Distance spindle - table min./max.	120-320	mm
	X/Y/Z 轴最大速度 Max. rapid travel X/Y/Z axis	30	m/min
	A/C轴额定转速 A/C axis rate speed	60/120	rpm
	A/C轴最大扭矩 A/C axis max. torque	230/49.5	Nm
主轴 Motor-spindle drive	主轴刀柄接口 Cutting-tool interface	BT30	
	主轴最大转速 Motor-spindle max. speed	24,000	rpm
	主轴扭矩S1 Motor-spindle torque S1	13	Nm
刀库 Tool magazine	刀库容量 Tool positions	6	T
	最大刀具直径/长度 Max. tool diameter/length	30/180	mm
	最大刀具重量 Max. tool weight	2.5	kg
	换刀时间 Tool-change-cycle	6	s
精度 Accuracy	X/Y/Z轴闭环控制 Linear encoder X/Y/Z-axis	选配 Option	
	A/C闭环控制 Angle encoder A/C-axis	标配 Standard	
	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy ISO 10791-4:1998	0.005	mm
	A/C轴定位精度 A/C axis positioning accuracy ISO 10791-4:1998	5	角秒 ARCSEC
	X/Y/Z轴重复定位精度 X/Y/Z axis repeat positioning accuracy ISO 10791-4:1998	0.003	mm
A/C轴重复定位精度 A/C axis repeat positioning accuracy ISO 10791-4:1998	3	角秒 ARCSEC	
主机部分外形尺寸 长/宽/高(正面机床) Dimensions length/width /height (front)	1,400/1,400/2,000	mm	
机床重量(不含附件) Machine weight (Not include accessories)	2,200	kg	
电气总容量 Power consumption	20	KVA	

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