

# GCGZF-CNC-6500

## 高速三轴加工中心

## High-speed 3-axis CNC Processing Center



## 用于铝型材的铣 - 钻 - 镗 - 攻螺纹等多种加工技术，大功率，高效率 Used for milling, drilling, tapping, boring, and etc. High power, High efficiency

### 技术亮点

- 适用于航空铝型材、轨道交通铝型材及各种工业铝型材的孔、槽及轮廓形状等工序的加工。具备铣削、钻削、镗孔及攻螺纹等功能。
- 采用西门子高品质数控系统，具有良好的操作界面，可完成复杂的三轴联动加工。
- 采用铸铁工作台。工作台上均布五个T型槽，方便工件及工装的安装、夹紧及更换。
- 采用工作台固定，立柱及主轴箱移动式布局，减小占地面积。刀库随立柱一起移动，方便换刀，换刀时间2秒。
- 配置有自动排屑机，方便排屑。
- 主轴采用BT40锥柄，最高转速10000 r/min，可以满足高速铣削。
- 刀库配置24刀位，圆盘式刀库，刀库附带机械手臂，可自动换刀。
- 配置安全防护装置，确保操作者人身安全。
- 可选配第四轴旋转工作台，完成工件的翻转定位加工。



带有 24 工位刀具库，自动换刀。  
The cutter storage supply 24 cutter positions, the cutter can change quickly and automatically.



采用铸铁工作台面，并设有标准 T 形槽，可以方便的定位安装各种工装夹具及工件。  
Using cast iron worktable with standard T shaped groove. It's convenient for locating and installing fixture and work-piece.

### Features

- This machine is designed for processing mounting hole, groove, and contour shape in all diversified profile used for aviation, rail traffic and other industry aluminum profile. It has the function of milling, drilling, boring and threading etc.
- It equipped with high-quality CNC system from Germany Siemens with favorable display interface. This system can provide 3-axis integrated movement.
- Using cast iron worktable with 5 standards T shaped grooves. It's convenient for installing, clamping, and change fixture and work-piece.
- It adopts fixed worktable and column, moveable spindle box to reduce area. The tool library moves with the column, very convenient change tools, and change time 2seconds.
- It equipped with automatic chip removal machine.
- Spindle adopts BT40 taper shank to met the requirement of high speed milling, max speed 10000 r/min.
- It adopts rotary tool library with 24 tools. Tool library is equipped with mechanical arm, automatic tool changer.
- It is equipped with securing guard to ensure personal security.
- Option: The fourth axis rotary worktable. Turning and positioning process for workpiece.

### 技术参数 Technical Parameters

项目		Item	规格 Specification
行程 Stroke	纵向行程 (X轴)	Longitudinal stroke(X-axis)	6500 mm
	横向行程 (Y轴)	Traverse stroke(Y-axis)	500 mm
	垂直行程 (Z轴)	Vertical stroke(Z-axis)	600 mm
工作台 Worktable	工作台形式	Worktable type	铸铁T形槽形式/T groove worktable
	工作台长度	Worktable length	6500 mm
	工作台宽度	Worktable width	500 mm
	T型槽数量	Quantity of T slot	5个
精度 Precision	定位精度	Position precision	±0.05 mm
	重复定位精度	Repeation position	±0.02 mm
	加工表面粗糙度	Surface roughness	Ra3.2um
	X轴快速速度	X-axis moving speed	60 m/min
快速移动速度 Move speed	Y轴快速速度	Y-axis moving speed	30 m/min
	Z轴快速速度	Z-axis moving speed	30 m/min
	进给速度(X/Y/Z)	Feeding speed	10000 mm/min
	主轴锥孔	Spindle taper	BT40
主轴 Spindle	主轴刀柄拉钉形式	Pull studs format	45°
	主轴电机功率	Motor power	7.5 kW
	主轴最大输出扭矩	Max output torque	47 N.m
	主轴最高转速	Max rev	10000 rpm
	进给	XY/Z进给电机扭矩	Feed motor torque
刀库 Tools	刀库容量	Tool magazine capacity	24 pcs
	换刀时间	Tool change times	2 sec
润滑 Lubricating	润滑系统	Lubricating system	油脂润滑/Automotive lubricating
冷却 Cooling	刀具冷却形式	Tool cooling type	喷雾冷却/Water cooling system
其它 Other	气源压力	Air pressure	5~6 kgf/cm²
	电器总容量	Total electrical capacity	25 kVA
	机床重量	Weight	12000 kg
NC系统 NC system	西门子数控系统	Siemens CNC system	

