



Osai CNC SIEMENS YASKAWA FAGG Electric RIVIN NSA KAWA AIRPAK

LGZM0550

五轴数控龙门加工中心 5-axis CNC Gantry Machining Center

性能特点

- 采用具有五轴五联动功能的数控双摆头，可以完成5面体的铣、镗、钻、攻螺纹和锯切等工序内容的加工。
- 适用于对各类车辆、轨道交通、及各种工业铝材的三维空间五轴联动加工，可以完成各种铝型材上的孔、槽及轮廓形状等工序内容。
- 采用进口高精度的双摆头，并配有大功率、高转速的电主轴，主轴头内锥孔为HSK63F接口，具备较高的单位时间内的金属切削量。
- 采用意大利Osai高品质数控系统，具有良好的用户操作界面，可以完成复杂的五轴联动加工，可以实现RTCP控制（五轴联动加工功能），所有CNC都配有CANOPEN总线通讯系统。
- 工作台面采用高强度铸铁，经有限元分析计算，保证最佳的刚性和稳定性，用于钢板焊接件，运用有限元分析进行了分析计算，保证最佳的刚性和稳定性。
- 优良的静态及动态性能和热态性能，铸铁工作台面设有预埋孔，可以方便的定位安装各种工装夹具及工件。
- 设有电主轴的水循环冷却系统、进给传动的自动润滑系统及刀具的冷却喷雾系统，确保机床的可靠运转和精度稳定性。
- 配置12工位旋转刀具库，自动换刀。

Product Features

- With 5-axis 5-linkage function CNC double pendulum head with 5-axis and 5-linkage function, it can complete milling, boring, drilling, tapping thread, and cutting of 5 surface.
- Suitable for 3-dimensional 5-axis machining on all kinds of industrial aluminum profile for all kinds of vehicles, rail transportation, and etc. it can complete all kinds of hole, slot, and shape on aluminum profile.
- With a high-precision double pendulum head, with a high-power, high-speed spindle, and with the inner conic hole of interface HSK63F; the machine has much higher cutting quantity per unit time.
- Adopted Italian Osai high-quality CNC system, with good user operation interface, it can complete complex 5-axis machining, and can realize the RTCP control (5-axis machining). All CNC are equipped with CANOPEN bus communication system.
- The worktable is made of high-strength cast iron, which is analyzed and calculated with finite element analysis to ensure the best rigidity and stability, used for steel plate welded parts, finite element analysis is used for analysis and calculation to ensure the best rigidity and stability.
- Excellent static and dynamic performance and thermal performance, the cast iron worktable has pre-embedded holes, which can be used for convenient positioning and installation of various fixtures and workpieces.
- With water circulating cooling system on the electric main shaft, automatic lubrication system on the feed drive, and cooling spray system on cutting tool, it guaranteed the reliable operation and precision stability of the machine tool.
- With rotary tool stock of 12 stations, it can change the tools automatically.

技术参数 Technical Parameters

移动范围	Moving range of axis X/Y/Z	6500/1520/600mm
主轴头到工件表面距离	Distance from spindle head to worktable surface	0-600mm
B轴摆动范围	B-axis swing range	±185°
C轴旋转范围	C-axis rotation range	±320°
工作台	Worktable	6500x1520mm
T型槽	T shaped groove	7×22H7
X:垂直/水平	X: Vertical / Horizontal	1200mm
Y:垂直/水平	Y: Vertical / Horizontal	1200mm
Z:垂直/水平	Z: Vertical / Horizontal (without tool)	450/600mm
X/Y/Z轴移动速度	X/Y/Z axis move speed	50/30/20m/min.
X/Y/Z轴进给电机扭矩	X/Y/Z axis feed motor torque	18.8N.m / 21.5 / 11.5N.m
B/C轴旋转速度	B/C axis rotating speed	166.7 / 191.7°/s
RTCP轴最大连续输出功率	RTCP axis Max continuous output torque	230/630N.m
刀库接口/刀具库	Tool magazine capacity	HSK63F No. 12
电机功率	Motor power	72kw
最大输出扭矩/转	Max output torque/ rev	12.3N.m
最大转速	Max rev	18000r/min
刀具容量	Tool magazine capacity	12种刀具或自动换刀/Automatic tool change
气压	Air pressure	6 bar / 8kg/cm²
空气消耗量	Air consumption	240L/min
总电容量	Total electrical capacity	50kVA
净重	Net weight	13500kg
CNC系统	CNC system	意大利Osai数控系统/Italy Osai CNC system