



LGZM555 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、槽及异形孔等加工内容。
- 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，具有友好用户操作界面，可以完成复杂的五轴联动加工，可以实现PTCP控制（五轴联动），并配有CANOPEN总线通讯系统。
- 工作台采用高强度铸钢，机身结构采用钢板焊接件，运用有限元分析进行了分析计算，保证机床的刚度和精度。
- 优良的静态及动态性能和热态性能，铸铁工作台面设有标准T型槽，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。

产品特点

- Uses a CNC double pendulum head with 5-axis and 5-linkage function. It can complete milling, boring, drilling, tapping thread, and cutting on 5 surface.
- Suitable for 3-dimensional, 5-axis machining of all kinds of industrial aluminum profile of 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.
- With high quality CNC system of Italy Osai, it has a good user interface, it can complete the complex 5-axis machining, and can realize the PTCP control (5-axis machining), and it can be equipped with bus communication of CANOPEN.
- The main table adopts high-strength cast steel, and the main structure uses steel plate welded parts. Using finite element analysis, it ensures the quality of the optimal stiffness ratio and excellent static and dynamic performance and rigidity for long-term working and precision stability. It is provided with a standard T-shaped groove, which can facilitate the positioning and installation of various tooling 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

轴移动范围	Moving range of axis X/Y/Z	6500/1520/6000mm
		±600mm
		±185°
		±320°
		W/o tool holder (without tool)
		7 × 22H7
	X: 10mca	X: 10mca
		1200mm
	Z: 10mm	Z: 10mm
		Vertical / Horizontal (without tool)
		50/30/20m/min.
		18.06 × 271.1.571.1.55N.m
		166.7 / 191.7 °/s
		230/630N.m
		HSK63F No.
		12Kw
		12.3N.m
		18000r/min
		12工位完成自动换刀/Automatic tool change
		6-12kg/m³
		240L/min
		50kVA
		13500kg