

协作机器人

-  可靠的安全性能
-  更优的结构空间
-  柔美的外形设计
-  领先的控制技术
-  便捷的编程方式
-  开放的控制系統

COLLABORATIVE ROBOTS

协作机器人HSR-Co605

全新的HSR-Co605协作机器人，相对于传统的工业机器人，具备安全、高效、低成本、以及易于上手等优点，负载5KG，体型紧凑，符合人体工程学原理，能实现灵活的调度且易于整合至现有的生产线中。在协作区域内可直接与人进行交互，使生产柔性得以最大化，满足更多用户的需求，通过机器人技术增强生产劳动力水平，降低成本，提高竞争力。

The new HSR-Co605 collaborative robot, which is safe, efficient, low-cost, and easy to get started compared to traditional industrial robots, is loaded at 5KG, compact, ergonomic, flexible scheduling and easy integration into existing production lines. In the collaboration area HSR-Co605 can interact directly with people, so that the production flexibility can be maximized, which is able to meet the needs of more users, through robotics to enhance the level of production labor, reduce costs, improve competitiveness.

产品特性 PRODUCT FEATURES

可靠的安全性能 Safe and reliability

通过实时监测无框电机的电流，让机器人具备了防碰撞检测的动力学辨识功能。

By real-time monitoring the current of the frame-less motor, the robot has the dynamic identification function of anti-collision detection.

柔美的外形设计 Soft curve

机器人外形设计更加柔和，在赋予其工业艺术感的同时，外形更加柔美。

The shape design of the robot is more smoothly, giving it a sense of industrial art and softer shape.

领先的控制技术 Leading control technologies

实时轨迹规划，实现轨迹平滑切换，参数辨识和动态轨迹精度补偿。

Real-time trajectory planning; trajectory smooth switching; parameter identification and dynamic trajectory accuracy compensation.

应用行业 APPLICATION INDUSTRIES

上下料、3C电子、医疗制药、物流仓储等。

Loading and unloading, 3C electronics, medical pharmacy, logistics and warehousing, etc.

应用领域 APPLICATION AREAS

工业现场、医疗教育、智能搬运、农业采摘等。

Industrial site, medical education, smart handling, agricultural picking, etc.

更优的结构空间 Better structural space

节省结构空间，同时简化传动结构，内部结构紧凑，实现了机器人一站式关节解决方案。

Saving structure space while simplifying the structure of transmission; Saving internal space, achieving an one-stop joint solution of the robot.

便捷的编程方式 Convenient programming method

具备拖动示教的协作功能，快速编程应对各种柔性化作业。

With the collaborative function of dragging teaching, and bash-programming to deal with various bexible operations.

开放的控制系統 Open control system

机器人控制系统更加开放，支持ROS操作系统，并提供丰富的二次开发接口。

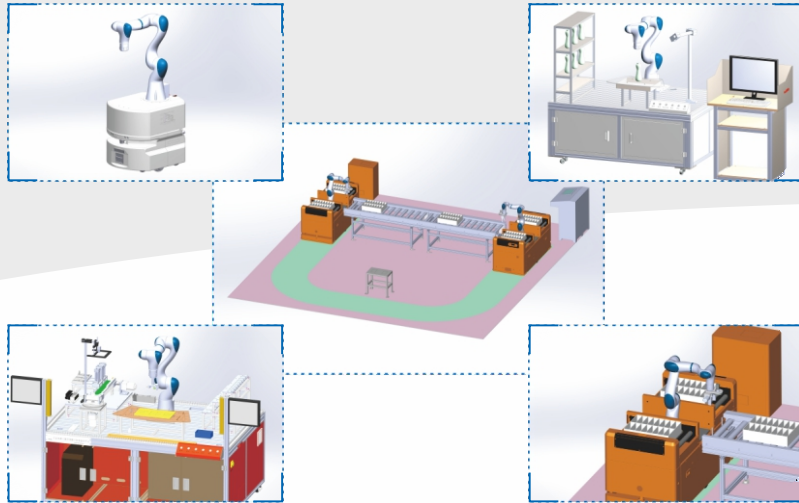
Robot control system is more open, which supportes ROS, and provides abundant secondary development interface.



技术参数 TECHNICAL PARAMETERS

产品型号 MODEL		HSR-Co605			
自由度 Degree of freedom		6			
最大负载 Max. payload		5kg			
工作半径 Working radius		800mm			
重复定位精度 Repeat accuracy		±0.05mm			
运动范围 Range of motion	J1 轴 Axis	±180°	额定速度 Rated speed	J1 轴 Axis	3.14rad/s,180°/s
	J2 轴 Axis	-220°/+40°		J2 轴 Axis	3.14rad/s,180°/s
	J3 轴 Axis	+35°/+325°		J3 轴 Axis	6.28rad/s,360°/s
	J4 轴 Axis	±180°		J4 轴 Axis	6.28rad/s,360°/s
	J5 轴 Axis	±135°		J5 轴 Axis	6.28rad/s,360°/s
	J6 轴 Axis	±180°		J6 轴 Axis	6.28rad/s,360°/s
温度 Temperature		0°C - 50°C	湿度 Humidity	10% - 80%	
其他 Other		避免与易燃易爆或腐蚀性气体、液体接触，远离电子噪声源（等离子） Avoid contact with flammable, explosive or corrosive gases and liquids, away from electronic noise sources (such as plasma)			
防护等级 Protection level		IP54			
安装方式 Installation method		地面安装 Ground installation			
本体重量 Body weight		26kg			

应用场景 APPLICATION SCENARIO



未来工厂：人机协同环境作业

Future factory: man-machine collaborative environment operation

未来工厂集合了智能移动机器人、智能协作机器人等工作单元，采用视觉误差补偿等技术，满足了企业智能化数字车间对整个机械结构运动精度的苛刻要求，能解决因多个运动单元的误差累积而造成精度不达标的问题。

Future factory set the intelligent mobile robot, intelligent cooperative robot, such as the unit of work, use the technology, such as visual error compensation to satisfy the enterprise intelligent digital workshop demanding requirements of precision mechanical structure movement as a whole, solves the accuracy caused by errors of multiple motion unit.

公司简介 COMPANY PROFILE

华数机器人是国产工业机器人产品研发、制造、应用的领军品牌，是机器人自动化解决方案的最佳工程承包商，是智能制造及智慧工厂整体解决方案的最佳提供商。目前已掌握机器人4大核心关键零部件，拥有6大系列40多种机器人整机产品，已在家电、3C、五金、汽摩、装配、机加工等领域开展大批量应用，具备年产10000台工业机器人的生产能力。

As the leading brand in the research and development, manufacture and application of domestic industrial robot products, Huashu Robot (HSR) is the best engineering contractor to provide robot automation solutions and the best provider for intelligent manufacturing and intelligent plant solutions. Presently, HSR has mastered four major core parts and components of robots, and have 6 series of more than 40 kinds of complete robot machine products. It has carried out large-scale applications in the fields of home appliances, 3C, hardware, automotive, assembly, and machining. HSR is provided with production capacity of 10,000 industrial robots per year.



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