### 不锐系列机器人简介

不锐系列机器人是自主研发设计的通用六关节机器人。其设计采用轻型模块化思想设计,可根据不同的需要定制适合工作要求的产品。标准产品为 5kg、7kg、10kg 和 20kg、30kg 机器人。

### ▶ 操作空间大

采用三平行轴构型,模块化关节,每个关节理论都可以实现±180°旋转,再辅以优化的大臂和小臂,可达空间为球形;

### ≥ 高持重比

机身主体材料采用压铸铝和铝合金,轻量化设计,持重比可达 1:3;

### ▶ 使用维护简单

完全按工业机器人标准设计,安装固定后,连接电缆,轻松操作机械手;机器人语言上手简单,工艺丰富。

### ≥ 高回报,低成本

机器人设计采用通用伺服、传动部件, 可靠性高, 成本低,

### ▶ 高精度

机器人本体配有高分辨率位置反馈,高精度谐波减速部件,重复定位精度可达 0.02mm;

### ▶ 人机协作

满足机器人安全标准,同时可搭配区域监控、碰撞检测功能,实现人机协作、生产自动化、简化部署。

#### Instructions

Bright series robot is a universal six-joint robot series with our own R&D. By adopting light weight modular design, customized product can be manufactured to meet the needs in many different kinds of working condition. Standard products can be divided into five types (5kg,7kg, 10kg and 20kg,30kg) according to the load capability.

### Large operating space

By adopting three parallel axis configurations, and modular joints design, each joint can rotate  $\pm$  180° in range, with optimized robot arms, a spherical full reachable workspace is realized.

### High weight holding ratio

The robot structure is mainly made of die-cast aluminum and aluminum alloy according to the thought of light weight modular design, the weight holding ratio is about 1:3.

### Easy to maintain

The robot was designed according to industrial robot standard, after fixed, and cable connected, our product are very simple to use. The robot language is easy to learn, and many working process setting are available within language.

### Higher profit with lower cost

With the use of universal servo and transmission parts, the reliability is enhanced and the cost is lower.

### High precision

The robot is mounted with high resolution position feedback and high precision harmonic deceleration unit, the repetitive positioning accuracy is about 0.02mm.

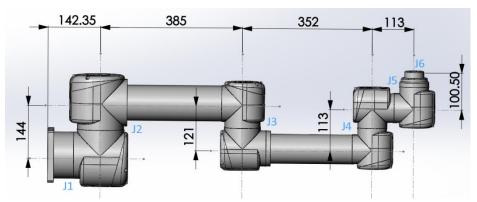
#### Human-robot collaboration

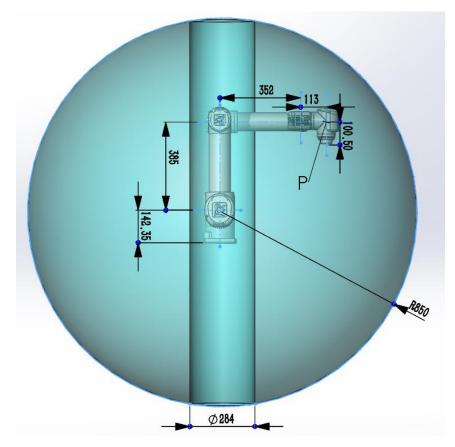
Our products meet the robot safety standards, with regional monitoring and collision detecting function, our robot can meet the need of collaboration, automatic production and simplified deployment.

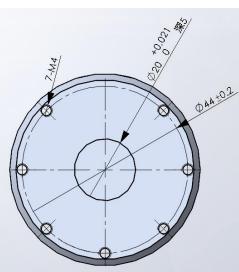
# 规格 Specifications

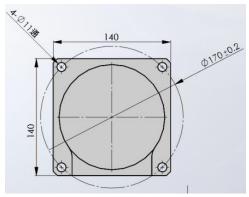
型号 Model		R-SV05	R-SV07	R-SV10	R-SV20	R-SV30		
自由度		6 个旋转关节						
Degrees of freedom		6 rotating joints						
有效载荷		E1	71	101	001	201		
Payload		5kg	7kg	10kg	20kg	30kg		
最大工作半径		0.50	1.050	1000	1050	0.51		
Reach		850mm	1650mm	1300mm	1650mm	971mm		
重复定位精度		±0.02mm						
Repeatability								
1 轴 JT1		±180°						
	2轴 JT2	±180°						
最大工作范围	3 轴 JT3	±160°						
Working range	4轴 JT4	±180° ±180°						
	5轴 JT5							
	6轴 JT6	±360°						
	1轴 JT1	160°/s	120°/s	120°/s	120°/s	120°/s		
	2轴 JT2	160°/s	120°/s	120°/s	120°/s	120°/s		
最大速度	3轴 JT3	160°/s	120°/s	120°/s	120°/s	180°/s		
Maximum speed	4轴 JT4	190°/s	180°/s	180°/s	150°/s	180°/s		
	5轴 JT5	190°/s	180°/s	180°/s	180°/s	180°/s		
	6轴 JT6	190°/s	180°/s	180°/s	180°/s	180°/s		
本体质量 Weight		21kg	36.55kg	35kg	55kg	52Kg		
安装方式		地面、顶装、壁装						
Installation		Free Standing/Ceiling Mounted/Wall Mounted						
工作环境温度		0∼50° C						
Working environment temperature								
工作环境湿度		35~85%						
Working environment humidity								
IP 等级		IP65						
IP classification								

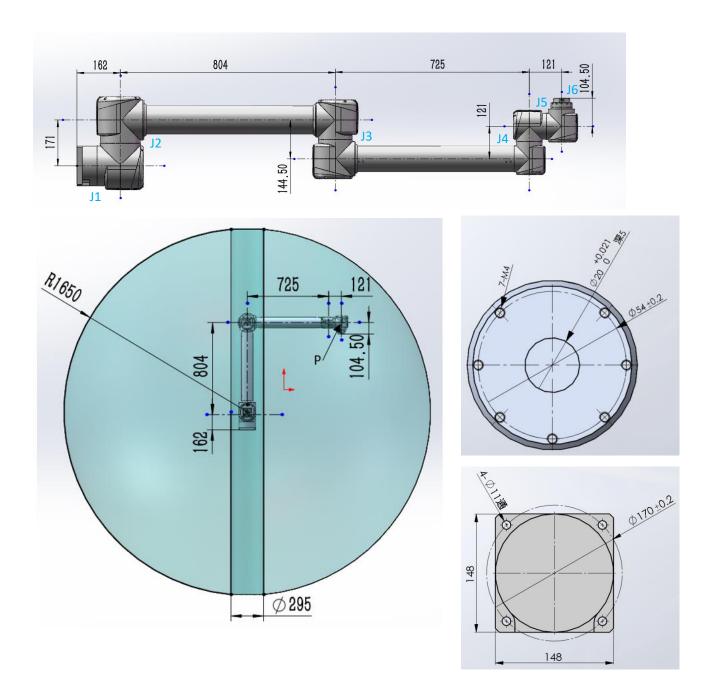
# 动作范围和尺寸 Movement Range and Size

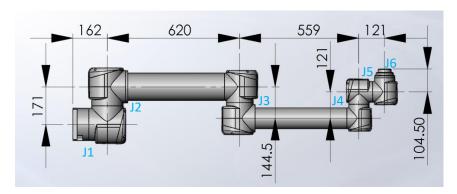


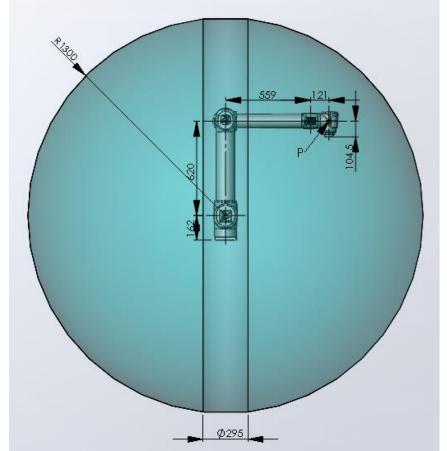


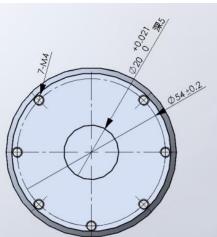


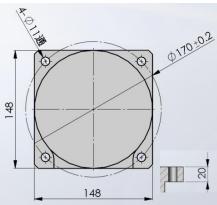


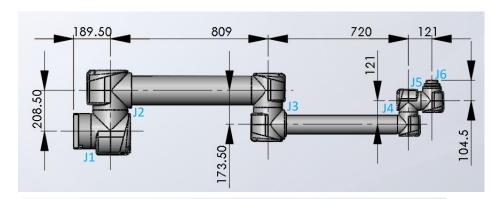


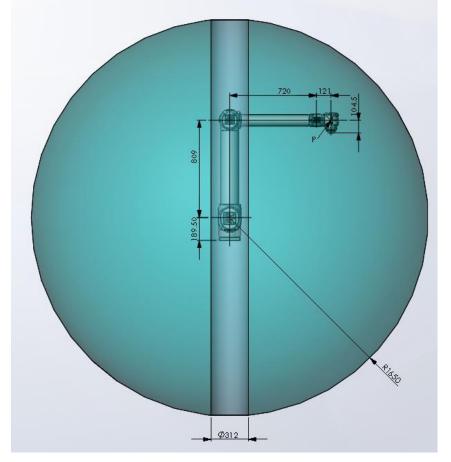


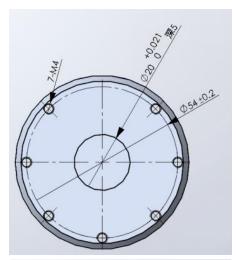


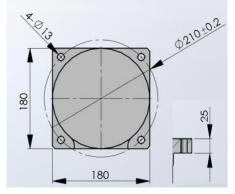


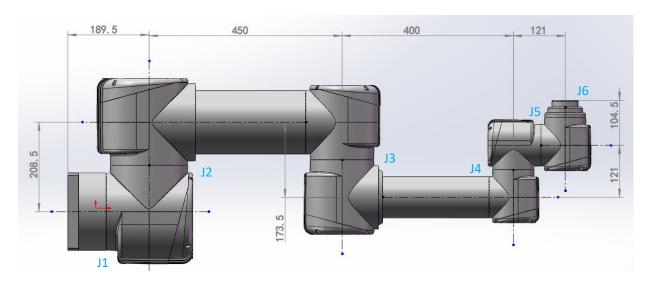


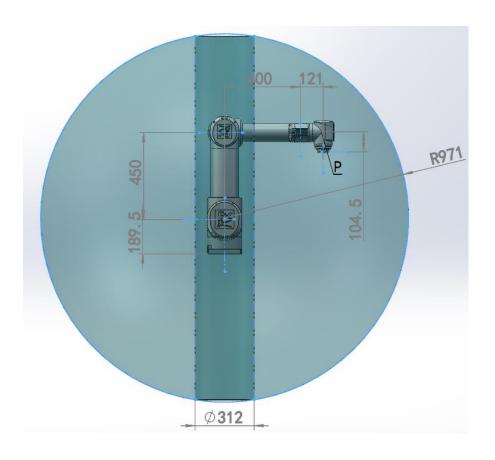


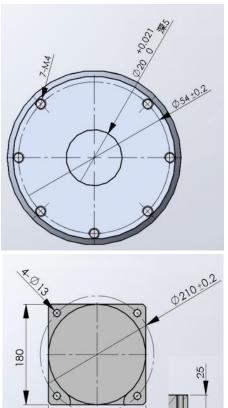












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### YRC 机器人控制柜

凝聚多年的机器人开发经验,研发出前所未有的高质量、小型机器人控制柜。除外形更加美观外,在性能上也有了全新的突破。

### 外形紧凑

YRC 缩减占用空间,能够高密度摆放,重量更轻。

### 运动控制

YRC 集成专业高性能机器人运动控制器。EtherCAT 实时通信,实现机器人性能的最优化。

### 高扩展性

YRC 建立在模块化的基础上,留有模块扩展接口,可方便的进行各种功能扩展。

### 丰富的功能

内置丰富功能应用,可根据不同行业定制应用解决方案。

规格		用户界面	用户界面		
控制硬件	Intel Atom 1.6GHz CPU	控制面板	控制柜上或遥控		
	多处理器系统	YTP 示教器	重量: 1kg		
	EtherCAT 总线		线缆长度: 5m		
	USB 存储器接口		彩色图形界面触摸屏		
控制软件	成熟可靠的实时 OS		操作按键		
	高级机器人编程语言		紧急停止		
	预装软件		三位模式开关		
	可扩展功能		单手持握		
电气连接		<del></del>	USB 存储器支持		
电源	AC220V, 50Hz	维护	状态 LED 指示灯		
	主电源电缆固定头		恢复程序		
	机器人动力线		登陆时间标记功能		
	机器人信号线		错误信息日志记录		
	机器人通用 I/O 线				
物理特性	长×宽×高 (mm)   重量 (kg)	· -	- 六 □ 2.4 /= .1		
	500×470×252 30	基本	安全紧急停止		
 环境		<del></del>	带检测功能的双通道安全回路		
 环境温度	0-45°C (32-113°F)	+÷ 🗖	使能启动装置		
相对湿度	最高 90%	接口	46/46 (		
防护等级	IP20		16/16 (可扩展)		
	操作面板 IP20	数字	24V DC 或继电器信号		
 过滤器	潮湿颗粒物过滤	模拟 	0-10V (需定制)		
<b>人之</b> ///心日は	潮湿粉尘过滤	<b>M</b> D	以太网 (10/100MB/s)		
	1773132-1773 -17-42-1710	现场总线(需选配)	PROFIBUS DP		
			Ethernet/IP		
			CAN		

### YRC robot control cabinet

With years of experience in robot R&D, the cabinet is designed with higher quality, smaller in size than ever before. Not only the optimal design is much elegant, but also the performance meets its breakthrough.

#### Compact structure

By reducing the occupancy space, YRC cabinet is much lighter in weight , and can be placed in high density.

#### Motion control

Integrated with KEBA professional robot motion controller and EtherCAT real-time communication protocol, YRC can optimize the performance.

### High scalability

YRC robot control cabinet, which is based on modular design, have module extension interface for function extention.

#### Rich functionality

Providing many motion program template. According to different industries, application solutions can be customized.

Specifications			User in	User interface		
Hardware	Intel Atom 1.6GHz CPU		Control panel		On the cabinet or remote	
	Multiprocessor system EtherCAT		YTP Teaching pendent	Teaching	1kg in weight	
				Wire length 5m  Color graphic interface on touch		
	USB storage interfac					
Software	Mature reliable real-time OS				screen	
	Advanced robot p			Operation buttons Emergency stop Three-position switch Can be hold in one hand during		
	language					
	Preloading software					
	Extensible function					
Electrical connection				operation		
Power supply	AC220V, 50Hz				USB storage supported	
Controller	Main power cable with fixing unit		Mainta	iin	Status LED indicator light	
connection	Robot power cable				Program recover	
	Robot signal cable Robot universal I/O cable				Login time markup function	
					Error message log	
Physical	L×W×H (mm)	Weight	Safety			
characteristics		(kg)	Basic		Emergency stop	
size	500×470×252	30			Dual channel safety loop with	
Environmental requ	uirement				detection function	
Temperature	0-45°C (32-113°F)				Enabling device	
Relative humidity	Up to 90%		Interfa	ce		
IP classification	IP20		Input /	Output	16/16(Extensible)	
	IP20 for Operating panel		Digital		24V DC or relay signal	
Filter	Wet particulate matter filtration Wet dust filtration		Analog	]	0-10V (Need to be selected)	
			Network port Field Bus (Need		EtherNET (10/100MB/s)	
					PROFIBUS DP	
			to be selected)		Ethernet/IP	
					CAN	