

## 机器人控制系统 Robot Control System



型号 Type	inCube20	inCube22	inCube2S-6	inCube2S-20
尺寸 (宽×高×深) Dimension (Width×Height×Depth)	420×151×455(mm)	420×151×455(mm)	364×135×283(mm)	364×135×333(mm)
重量 Weight	20kg	20kg	11kg	13kg
保护等级 Protection	IP40			
运行环境温度 Temperature range	0~45°C			
输入电源 Power supply	单相 Single-phase 220VAC -10%~+10% 49~61Hz			
最大输入功率 Max. input power	2.2KVA	3.5KVA	2.2KVA	2.2KVA
IO 数量 Amount of IO	26 User DI ( PNP/NPN ) , 26 User DO ( NPN ) 18 Safety IO			



型号 Type	ARC4-50/ARC4-75	ARC4-165	ARC5-12	ARC5-25	ARC5-280
对应机器人本体型号 Robots Applicable	AIR50-2230/AIR75-2100	AIR165-2750	12kg 以下负载本体 manipulators of payload ≤12kg	25kg 以下负载本体 manipulators of payload ≤ 25kg	50kg 以上负载本体 manipulators of payload ≥ 50kg
尺寸 (宽×高×深) Dimension (Width×Height×Depth)	666×1002×553(mm)	800×1170×593(mm)	550×688×380(mm)	550×688×380(mm)	680×1050×496(mm)
重量 Weight	180kg	270kg	63kg	72kg	140kg
保护等级 Protection	前部 Front IP54 后部 Rear IP23		前部 Front IP54 后部 Rear IP20		
运行环境温度 Temperature range	0~40°C		0~45°C		
输入电源 Power supply	三相 Three-phase 380VAC -10% ~ +10% 49 ~ 61Hz		单相 Single-phase 220VAC -10% ~ +10% 49 ~ 61Hz		三相 Three-phase 380VAC -10% ~ +10% 49 ~ 61Hz
最大输入功率 Max. input power	8KVA	13KVA	2.2KVA	3.5KVA	9.5KVA
IO 数量 Amount of IO	40 User DI ( PNP ) , 40 User DO ( PNP )		26 User DI ( PNP&NPN ) , 26 User DO ( NPN ) 18 Safety IO		

\* ARC5 系列控制柜出厂前可选配 74DI/74DO, 具体请联系销售。  
ARC5 series controllers support 74DI/74DO optional, please contact sales.

## 海外销往地 Overseas Customer Distribution



微信公众号  
Official WeChat Account



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有关产品特性和可用性说明并不构成性能保证, 仅供参考。所交付产品和所执行的服务范围以具体合同为准。

The introduction of the products is only for reference, the products and services delivered shall be subject to the specific contract.

**配天机器人**  
SMARTER · STRONGER

## 机器人选型参考 Reference for selection of robot



## Company Profile

## 公司介绍

配天机器人成立于 2010 年, 是一家专注于工业机器人、核心零部件及行业自动化解决方案提供商。公司业务包括工业机器人本体及核心部件 (伺服驱动、伺服电机等) 产品的研发、生产、销售、维修服务、技术支持和培训, 同时提供机器人控制系统解决方案、成套柔性制造设备及系统、机器人应用行业自动化解决方案。配天机器人是国家认定的高新技术企业, 拥有国内顶尖的高端装备人才及研究院体系, 始终致力于突破高端装备的核心瓶颈。

配天工业机器人产品负载范围涵盖 3 公斤至 280 公斤, 已在多个行业、领域成功应用。



Founded in 2010, Peitian Robot is a provider of industrial robots, core components and industry automation solutions. The company's business includes the R&D, production, sales, maintenance services, technical support and training of industrial robot bodies and core components (servo drives, servo motors, etc.), as well as providing robot control system solutions, complete sets of flexible manufacturing equipment and systems, and turnkey automation solutions.

Peitian Robot is a nationally recognized high-tech enterprise, having a R&D team composed of top international talents and a mature academic research system. The company has always been committed to breaking through the core bottleneck of high-end equipment.

Having a large span in payloads ranging from 3 kg to 280 kg, Peitian industrial robots have been successfully used in many industries and fields.

# SCARA SCARA



# 桌面型 Desktop Series



# 小中负载 Small/Medium Payload



# 大负载 Large Payload



型号 Type	AIR3SC-400	AIR6SC-600	AIR6SC-750	AIR12SC-600	AIR12SC-700	AIR12SC-820	AIR12SC-1000	AIR20SC-820	AIR20SC-1000	AIR3-560-XP	AIR4-560A	AIR4-560B	AIR7-920	AIR8-710	AIR10-1210	AIR15-950	AIR6-1450	AIR10-1420	AIR10-1720	AIR12-2000-HI	AIR20-2000	AIR25-1700	AIR35-1700	AIR50-2230	AIR75-2100	AIR130-2700	AIR130-3100	AIR165-2750	AIR170-2700	AIR170-3100	AIR220-2700	AIR220-3100	AIR280-2700		
轴数 Axes	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6 (3/4) <sup>2</sup>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
负载 Payload	3kg	6kg	6kg	12kg	12kg	12kg	12kg	20kg	20kg	3kg	4kg	4kg	7kg	8kg	10kg	15kg	6kg	10kg	10kg	12kg	20kg	25kg	35kg	50kg	75kg	130kg	130kg	165kg	170kg	170kg	220kg	220kg	280kg		
最大运动范围 Reach	400mm	600mm	750mm	600mm	700mm	825mm	1000mm	825mm	1000mm	560mm	560mm	560mm	920mm	710mm	1211mm	947mm	1455mm	1420mm	1721mm	2001mm	2001mm	1702mm	1702mm	2238 mm	2112 mm	2707mm	3104mm	2750mm	2707mm	3104mm	2707mm	3104mm	2707mm		
定位精度 Positioning accuracy	位置重复 定位精度 Position repeatability	轴 1 轴 2 Axis 1 Axis 2	±0.01mm	±0.015 mm	±0.015 mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	±0.03mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.035mm	±0.03mm	±0.06mm	±0.03mm	±0.04mm	±0.03mm	±0.03mm	±0.03mm	±0.03mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.1mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	
		轴 3 Axis 3	±0.01mm	±0.01mm	±0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	±0.03mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.035mm	±0.03mm	±0.06mm	±0.03mm	±0.04mm	±0.03mm	±0.03mm	±0.03mm	±0.03mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.1mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	
		轴 4 Axis 4	±0.005°	±0.005°	±0.005°	0.01°	0.01°	0.01°	0.01°	0.01°	±0.03mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.035mm	±0.03mm	±0.06mm	±0.03mm	±0.04mm	±0.03mm	±0.03mm	±0.03mm	±0.03mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.1mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm
IP 等级 Ingress Protection	IP20	IP20	IP20	IP30/IP54	IP30/IP54	IP30/IP54	IP30/IP54	IP30/IP54	IP30/IP54	Ex pzc eb ia II T4 Gc (防爆版本) (Explosion-proof)	IP65	IP67	IP67	IP67	IP67	IP67/ISO 5 <sup>3</sup>	IP54 (腕部 IP67) (Wrist: IP67)	IP54 (腕部 IP67) (Wrist: IP67)	IP54 (腕部 IP67) (Wrist: IP67)	IP54 (腕部 IP67) (Wrist: IP67)	IP54 (腕部 IP67) (Wrist: IP67)	IP54 (腕部 IP67) (Wrist: IP67)	IP54 (腕部 IP67) (Wrist: IP67)	IP54 (腕部 IP67) (Wrist: IP67)	IP54 (腕部 IP65) (Wrist: IP65)	IP54 (腕部 IP65) (Wrist: IP65)	IP54 (小臂 IP65) (Forearm: IP65)	IP54 (腕部 IP65) (Wrist: IP65)	IP54 (腕部 IP65) (Wrist: IP65)	IP54 (腕部 IP65) (Wrist: IP65)	IP54 (腕部 IP65) (Wrist: IP65)	IP54 (腕部 IP65) (Wrist: IP65)	IP54 (腕部 IP65) (Wrist: IP65)		
安装方式 Mounting	地装 Floor	地装 Floor	地装 Floor	地装 / 吊装 Floor/ceiling	地装 / 吊装 Floor/ceiling	地装 / 吊装 Floor/ceiling	地装 / 吊装 Floor/ceiling	地装 / 吊装 Floor/ceiling	地装 / 吊装 Floor/ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 Floor	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling	地装 / 壁挂 / 吊装 Floor/Wall/Ceiling		
运动范围 Working range	轴 1 Axis 1 rotation	-136°/+136°	-137°/+137°	-134°/+134°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-170°/+170° <sup>①</sup>	-185°/+185° <sup>①</sup>	-170°/+170° <sup>①</sup>	-180°/+180°	-180°/+180°	-170°/+170° <sup>①</sup>	-180°/+180°	-180°/+180°	-180°/+180°	-180°/+180°	
	轴 2 Axis 2 arm	-141°/+141°	-150°/+150°	-150°/+150°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-110°/+120°	-110°/+120°	-110°/+120°	-100°/+135°	-100°/+135°	-100°/+135°	-100°/+135°	-85°/+150°	-85°/+150°	-85°/+150°	-95°/+155°	-95°/+155°	-95°/+155°	-95°/+155°	-95°/+155°	-95°/+155°	-75°/+145°	-75°/+145°	-60°/+85°	-60°/+85°	-60°/+85°	-60°/+85°	-60°/+85°	-60°/+85°	-60°/+85°	-60°/+85°
	轴 3 Axis 3 arm	150 mm	200/300 mm	200/300 mm	200/300/400/600 mm	200/300/400/600 mm	200/300/400/600 mm	200/300/400/600 mm	200/300/400/600 mm	200/300/400/600 mm	-108°/+152°	-108°/+152°	-108°/+148°	-120°/+156°	-120°/+156°	-120°/+156°	-120°/+156°	-95°/+160°	-95°/+170°	-95°/+170°	-95°/+170°	-95°/+170°	-95°/+170°	-95°/+170°	-95°/+170°	-120°/+170°	-120°/+170°	-110°/+170°	-110°/+170°	-120°/+155°	-110°/+170°	-110°/+170°	-110°/+170°	-110°/+170°	-110°/+170°
	轴 4 Axis 4 wrist	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-200°/+200°	-200°/+200°	-200°/+200°	-200°/+200°	-200°/+200°	-200°/+200°	-155°/+155°	-195°/+195°	-195°/+195°	-185°/+185°	-185°/+185°	-185°/+185°	-185°/+185°	-185°/+185°	-350°/+350°	-350°/+350°	-200°/+200°	-200°/+200°	-360°/+360°	-200°/+200°	-200°/+200°	-200°/+200°	-200°/+200°	-200°/+200°	-200°/+200°
	轴 5 Axis 5 bend	—	—	—	—	—	—	—	—	—	-118°/+118°	-118°/+118°	-120°/+120°	-135°/+135°	-135°/+135°	-135°/+135°	-120°/+120°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-120°/+120°	-120°/+120°	-135°/+135°	-135°/+135°	-125°/+125°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°	-135°/+135°
	轴 6 Axis 6 turn	—	—	—	—	—	—	—	—	—	-350°/+350°	-350°/+350°	-350°/+350°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-400°/+400°	-400°/+400°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°	-360°/+360°
运动速度 Rotation rate	轴 1 Axis 1 rotation	600°/s	400°/s	400°/s	—	—	—	—	—	450°/s	450°/s	450°/s	380°/s	380°/s	310°/s	310°/s	200°/s	200°/s	200°/s	220°/s	220°/s	220°/s	220°/s	220°/s	180°/s	177°/s	120°/s	120°/s	125°/s	120°/s	120°/s	120°/s	120°/s	120°/s	
	轴 2 Axis 2 arm	600°/s	650°/s	650°/s	—	—	—	—	—	450°/s	450°/s	370°/s	320°/s	350°/s	320°/s	320°/s	200°/s	200°/s	200°/s	220°/s	220°/s	220°/s	220°/s	220°/s	180°/s	178°/s	114°/s	114°/s	113°/s	114°/s	114°/s	114°/s	114°/s	100°/s	100°/s
	轴 3 Axis 3 arm	1100mm/s	1100mm/s	1100mm/s	1666mm/s	1666mm/s	1666mm/s	1666mm/s	1666mm/s	1666mm/s	525°/s	525°/s	505°/s	390°/s	480°/s	350°/s	350°/s	230°/s	200°/s	200°/s	170°/s	170°/s	170°/s	220°/s	180°/s	173°/s	125°/s	125°/s	125°/s	125°/s	125°/s	114°/s	114°/s	100°/s	100°/s
	轴 4 Axis 4 wrist	2600°/s	2300°/s	2300°/s	1600°/s	1600°/s	1600°/s	1600°/s	1300°/s	1300°/s	600°/s	600°/s	600°/s	490°/s	490°/s	490°/s	430°/s	370°/s	370°/s	355°/s	375°/s	375°/s	375°/s	370°/s	260°/s	260°/s	225°/s	225°/s	180°/s	175°/s	175°/s	175°/s	175°/s	175°/s	
	轴 5 Axis 5 bend	—	—	—	—	—	—	—	—	—	600°/s	600°/s	560°/s	565°/s	565°/s	565°/s	430°/s	370°/s	370°/s	465°/s	465°/s	465°/s	465°/s	370°/s	255°/s	255°/s	210°/s	210°/s	175°/s	210°/s	210°/s	210°/s	210°/s	210°/s	
	轴 6 Axis 6 turn	—	—	—	—	—	—	—	—	—	800°/s	800°/s	850°/s	815°/s	815°/s	815°/s	630°/s	600°/s	600°/s	300°/s	755°/s	755°/s	470°/s	370°/s	370°/s	300°/s	300°/s	280°/s	300°/s	300°/s	270°/s	270°/s	270°/s	270°/s	
适用控制柜 Controllers	inCube2S-6	inCube2S-6	inCube2S-6	inCube2S-20	inCube2S-20	inCube2S-20	inCube2S-20	inCube2S-20	inCube2S-20	inCube20	inCube20	inCube20	inCube20	inCube20	inCube20	inCube20	inCube20	inCube20	inCube20	inCube20	inCube22	inCube22	inCube22	inCube22	ARC4-50	ARC4-75	ARC5-280	ARC5-280	ARC4-165	ARC5-280	ARC5-280	ARC5-280	ARC5-280	ARC5-280	

<sup>①</sup> 若去除机械限位，运动范围可达 -180°/+180°。 If the mechanical limit is removed, the working range can reach -180°/+180°.

<sup>②</sup> AIR15-950 的 3 轴版本指保留原 6 轴版本机体的 J2、J3 和 J5；4 轴版本可在 3 轴版本上选择增加 J1、J4 或 J6。本体重量会减轻，其他性能参数不变。

The 3-axis version of AIR15-950 refers to retaining the original 6-axis version body J2, J3 and J5; 4-axis version You can optionally add J1, J4, or J6 to the 3-axis version. Body weight will be reduced, other performance parameters remain unchanged.

<sup>③</sup> 如需 ISO 5 版本，请联系销售。 For ISO 5 version, please contact sales.