



机器人参数表 Robot Specification

型号 Type		AIR3-A	AIR6-A	AIR6L-A	AIR6ARC-A	AIR10-A	AIR20-A	AIR50-A	AIR165-A
轴数 Axes		6	6	6	6	6	6	6	6
最大负载 Payload		3kg	6kg	6kg	6kg	10kg	20kg	50kg	165kg
机器人本体 Manipulator	重量 Weight	23kg	45kg	47kg	90kg	150kg	260kg	550kg	1200kg
	最大运动范围 Reach	560mm	710mm	920mm	1450mm	1420mm	1702mm	2238 mm	2750mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	±0.02mm	±0.02mm	±0.02mm	± 0.06mm	± 0.02mm	±0.03mm	±0.06mm	±0.1mm
IP 等级 Ingress Protection		IP65	IP65	IP67	IP54	IP54( 腕部 IP67) IP54(Wrist:IP67)	IP54( 腕部 IP67) IP54(Wrist:IP67)	IP54( 腕部 IP67) IP54(Wrist:IP67)	IP65
安装方式 Mounting		地装 / 壁挂 / 吊装 Floor/ wall/ inverted	地装 / 壁挂 / 吊装 Floor/ wall/ inverted	地装 / 壁挂 / 吊装 Floor/ wall/ inverted	地装 Floor mounted	地装 / 吊装 Floor/inverted	地装 / 吊装 Floor/inverted	地装 Floor mounted	地装 Floor mounted
运动范围 Working range	轴 1* Axis 1 rotation	-170° /+170°	-170° /+170°	-170° /+170°	-170° /+170°	-170° /+170°	-170° /+170°	-170° /+170°	-170° /+170°
	轴 2 Axis 2 arm	-110° /+120°	-100° /+135°	-100° /+135°	-95° /+155°	-85° /+150°	-95° /+155°	-35° /+145°	-60° /+85°
	轴 3 Axis 3 arm	-110° /+155°	-120° /+156°	-120° /+156°	-120° /+180°	-95° /+170°	-95° /+170°	-120° /+170°	-120° /+155°
	轴 4 Axis 4 wrist	-200° /+200°	-200° /+200°	-200° /+200°	-155° /+155°	-180° /+180°	-185° /+185°	-350° /+350°	-360° /+360°
	轴 5 Axis 5 bend	-120° /+120°	-135° /+135°	-135° /+135°	-120° /+120°	-135° /+135°	-135° /+135°	-120° /+120°	-125° /+125°
	轴 6 Axis 6 turn	-350° /+350°	-360° /+360°	-360° /+360°	-360° /+360°	-360° /+360°	-400° /+400°	-360° /+360°	-360° /+360°
运动速度 Rotation rate	轴 1 Axis 1 rotation	450° /s	380° /s	380° /s	230° /s	200° /s	175° /s	180° /s	125° /s
	轴 2 Axis 2 arm	450° /s	350° /s	325° /s	230° /s	200° /s	175° /s	180° /s	113° /s
	轴 3 Axis 3 arm	540° /s	460° /s	390° /s	230° /s	200° /s	170° /s	180° /s	125° /s
	轴 4 Axis 4 wrist	600° /s	480° /s	480° /s	430° /s	370° /s	355° /s	260° /s	180° /s
	轴 5 Axis 5 bend	600° /s	550° /s	550° /s	430° /s	370° /s	355° /s	255° /s	175° /s
	轴 6 Axis 6 turn	800° /s	800° /s	800° /s	630° /s	600° /s	600° /s	370° /s	280° /s
适用控制柜 Controllers		inCube10/20	inCube10/20	inCube10/20	inCube20	inCube10/20	inCube12	ARC4-50	ARC4-165

\* 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°

## AIR3-A



高速度  
高精度  
高稳定性  
小巧、敏捷

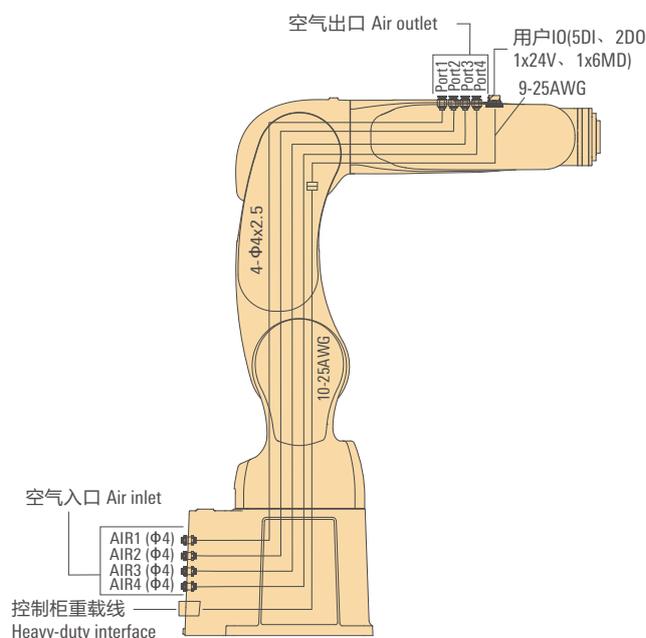
High speed  
High precision  
High stability  
Small and Agile

- 标准循环时间小于 0.33s, 满足追求最短循环时间和最高产量的需求。  
The standard cycle time is less than 0.33s, meeting your pursuit for the maximum output in the shortest time.
- 专用的电机散热设计, 轻松应对 3C 行业高强度高频次重复运动产生的高发热。  
Advanced heat dissipation design of motor, enables AIR3-A to easily cope with the high heat generated by high-intensity repetitive operation in the 3C industry.
- 非常适于狭小空间内作业、3C 制造等行业的高精密生产作业, 主要用于小型工件的装配、搬运、螺接、检测等。  
AIR3-A is very ideal for narrow space operation, as well as highly precise operations in 3C field. AIR3-A is widely used in assembly, handling, screwing and testing of small workpieces.

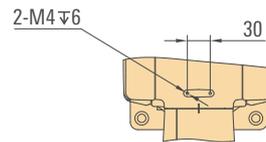
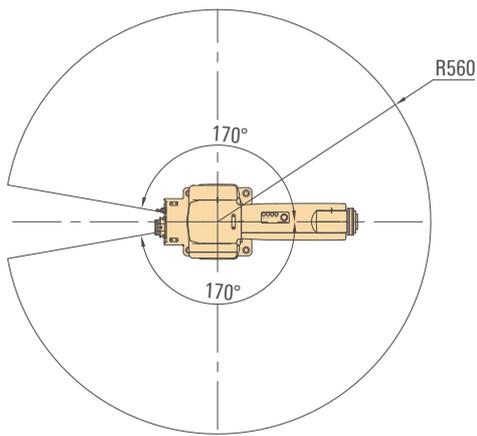
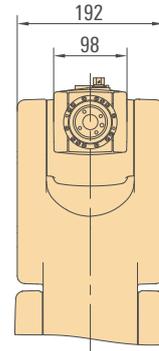
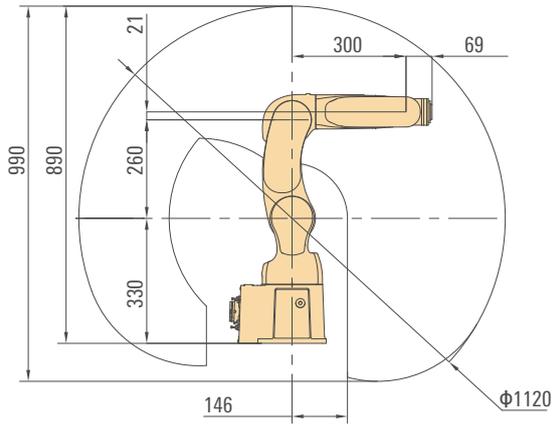
型号 Type		AIR3-A
轴数 Axes		6
最大负载 Payload		3kg
IP 等级 Ingress Protection		IP65
机器人本体 Manipulator	重量 Weight	23kg
	最大运动范围 Reach	560mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	±0.02mm
	运动范围 Working range	
运动速度 Rotation rate	轴 1* Axis 1 rotation	-170° /+170°
	轴 2 Axis 2 arm	-110° /+120°
	轴 3 Axis 3 arm	-110° /+155°
	轴 4 Axis 4 wrist	-200° /+200°
	轴 5 Axis 5 bend	-120° /+120°
	轴 6 Axis 6 turn	-350° /+350°
运动速度 Rotation rate	轴 1 Axis 1 rotation	450° /s
	轴 2 Axis 2 arm	450° /s
	轴 3 Axis 3 arm	540° /s
	轴 4 Axis 4 wrist	600° /s
	轴 5 Axis 5 bend	600° /s
	轴 6 Axis 6 turn	800° /s
适用控制柜 Controllers		inCube10/20

\* 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°

## 机体内配线 • 配管 Integrated dressing

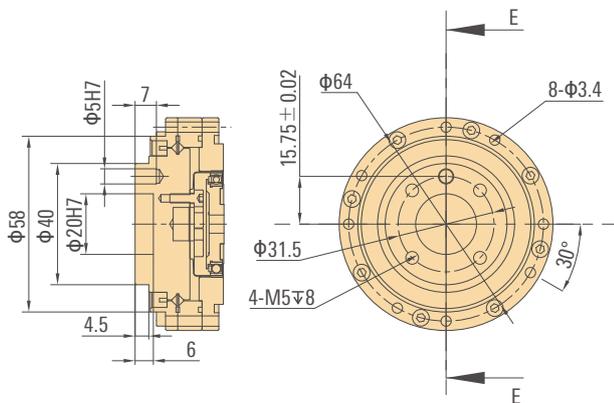


外形尺寸及运动范围 Outline dimension and Working range

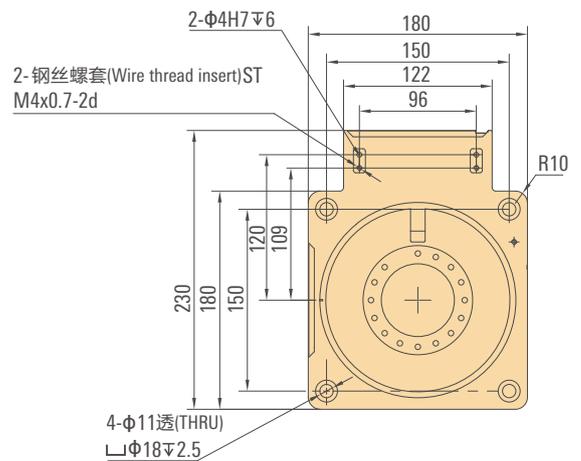


肘部孔位图  
Elbow arm

法兰图 Flange drawing



底座安装图 Base installation drawing



## AIR6-A

高速度  
高精度  
高稳定性  
扩展性强

High speed  
High precision  
High stability  
Strong scalability

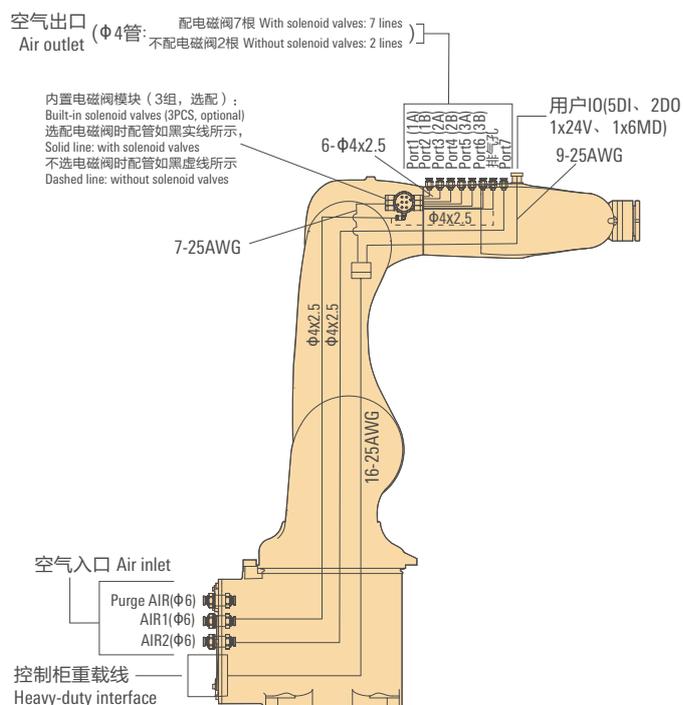


- 紧凑的机身设计, 节省占地空间。  
Compact design, saving space.
- 非常适于密集区域、封闭式狭小空间内作业。  
AIR6-A is very ideal for narrow space operation.
- 应用广泛, 适用于小型零部件的搬运、装配、上下料、打磨、包装、检测、贴标等作业, 满足客户对低负载、高精度、高节拍小型机器人的需求。  
AIR6-A is widely used in handling, assembly, loading & unloading, grinding, packing, testing and labeling of small workpieces. AIR6-A can meet the demands of customers for low load, high precision and high speed.

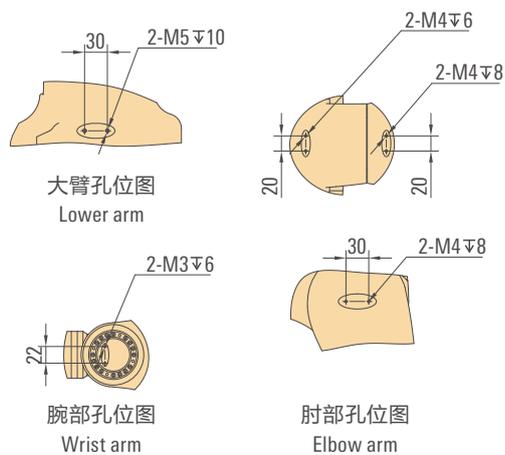
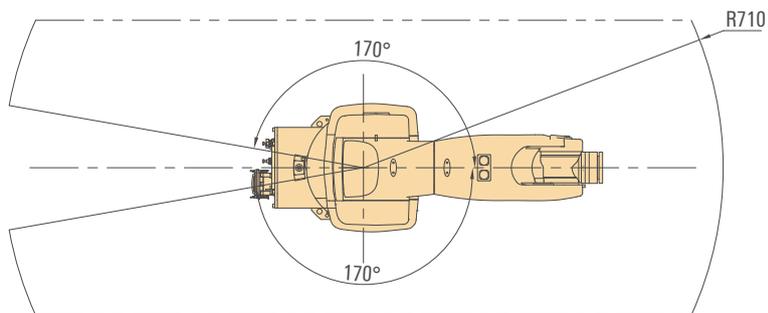
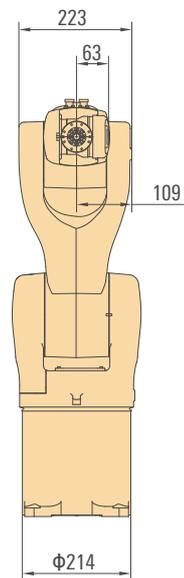
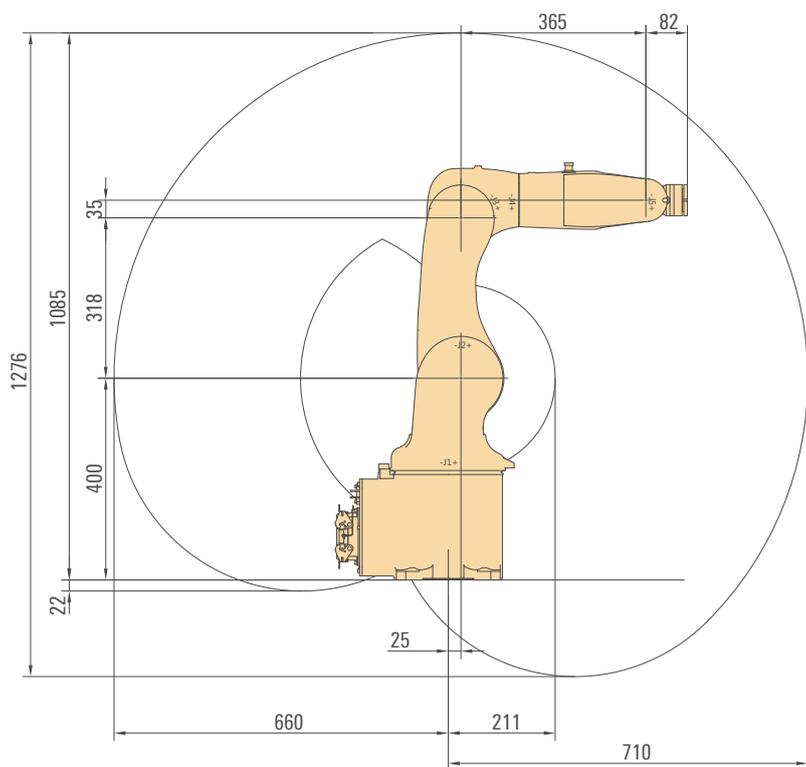
型号 Type		AIR6-A
轴数 Axes		6
最大负载 Payload		6kg
IP 等级 Ingress Protection		IP65
机器人本体 Manipulator	重量 Weight	45kg
	最大运动范围 Reach	710mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	±0.02mm
	运动范围 Working range	
运动速度 Rotation rate	轴 1* Axis 1 rotation	-170° /+170°
	轴 2 Axis 2 arm	-100° /+135°
	轴 3 Axis 3 arm	-120° /+156°
	轴 4 Axis 4 wrist	-200° /+200°
	轴 5 Axis 5 bend	-135° /+135°
	轴 6 Axis 6 turn	-360° /+360°
运动速度 Rotation rate	轴 1 Axis 1 rotation	380° /s
	轴 2 Axis 2 arm	350° /s
	轴 3 Axis 3 arm	460° /s
	轴 4 Axis 4 wrist	480° /s
	轴 5 Axis 5 bend	550° /s
	轴 6 Axis 6 turn	800° /s
适用控制柜 Controllers		inCube10/20

\* 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°

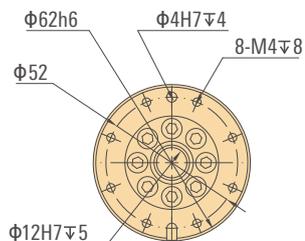
## 机体内配线·配管 Integrated dressing



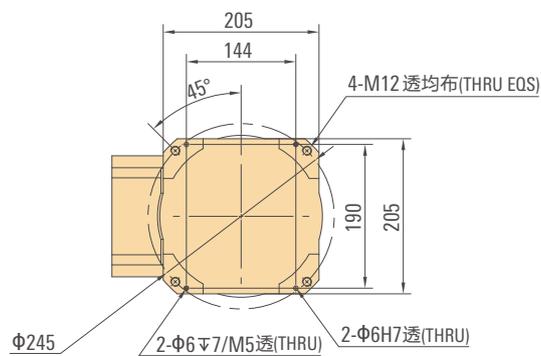
外形尺寸及运动范围 Outline dimension and Working range



法兰图 Flange drawing



底座安装图 Base installation drawing



## AIR6L-A



高速度  
高精度  
高稳定性  
加长臂展  
防护等级高达 IP67

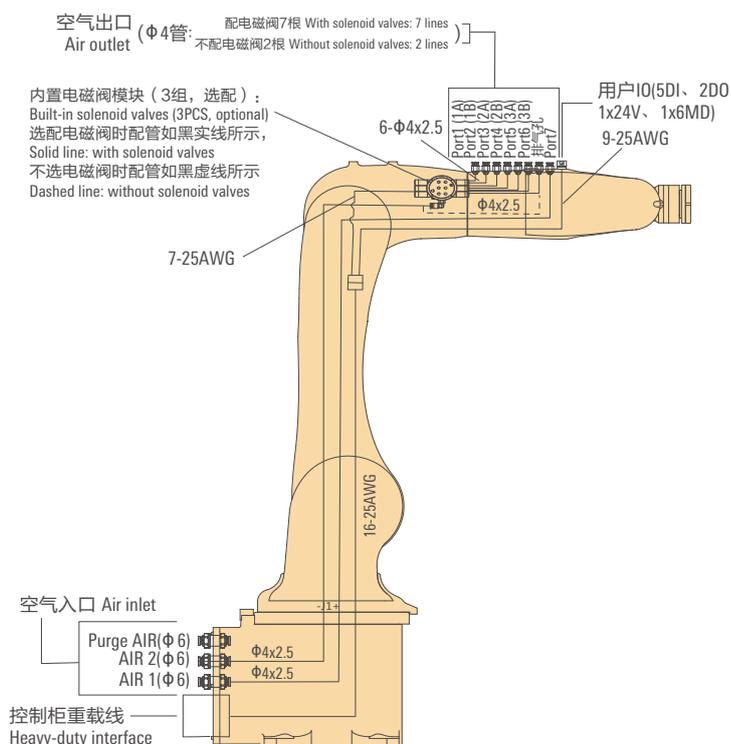
High speed  
High precision  
High stability  
Longer arm  
IP 67

- 在布满灰尘或有水流冲射的环境下依然能够稳定运行。  
AIR6L-A can keep high performance under the harsh environment full of dust or water.
- 作业灵活快速，臂展长达 920mm，尤其适用于 3C 领域中的多工位作业，如上下料、搬运码垛、打磨抛光等，以及智能仓储领域分拣码垛。  
Flexible and fast, with 920mm reach, AIR6L-A is especially suitable for multi-station operation in 3C field, such as loading & unloading, handling, palletizing, grinding and polishing, as well as sorting and palletizing in intelligent storage field.

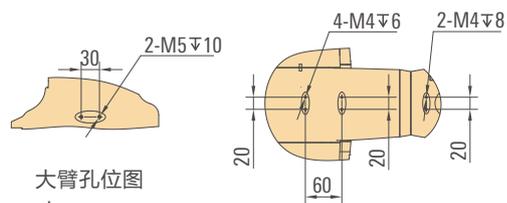
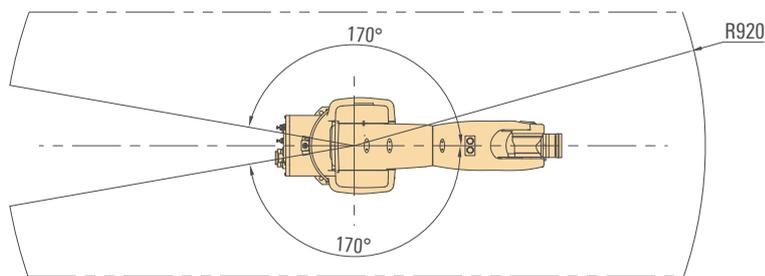
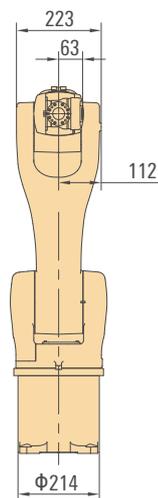
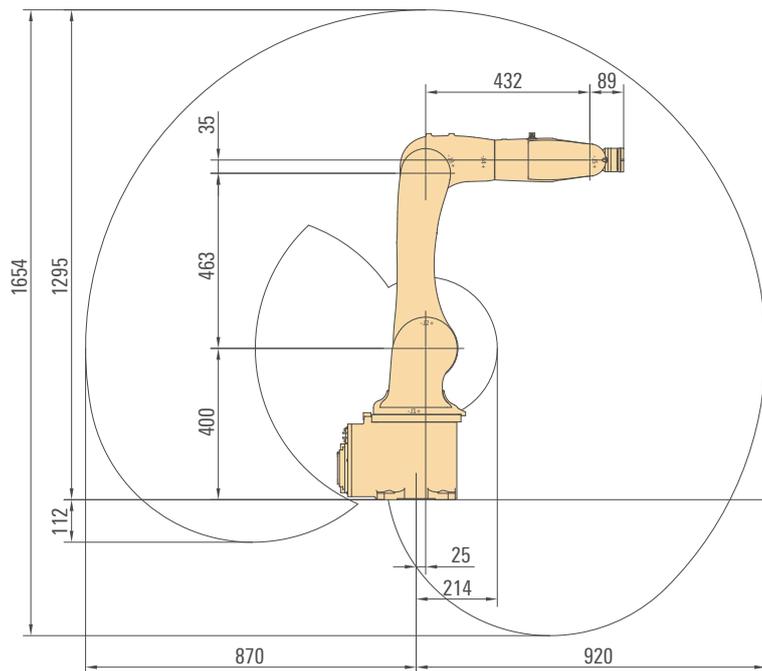
型号 Type		AIR6L-A
轴数 Axes		6
最大负载 Payload		6kg
IP 等级 Ingress Protection		IP67
机器人本体 Manipulator	重量 Weight	47kg
	最大运动范围 Reach	920mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	±0.02mm
运动范围 Working range	轴 1* Axis 1 rotation	-170° /+170°
	轴 2 Axis 2 arm	-100° /+135°
	轴 3 Axis 3 arm	-120° /+156°
	轴 4 Axis 4 wrist	-200° /+200°
	轴 5 Axis 5 bend	-135° /+135°
	轴 6 Axis 6 turn	-360° /+360°
运动速度 Rotation rate	轴 1 Axis 1 rotation	380° /s
	轴 2 Axis 2 arm	325° /s
	轴 3 Axis 3 arm	390° /s
	轴 4 Axis 4 wrist	480° /s
	轴 5 Axis 5 bend	550° /s
	轴 6 Axis 6 turn	800° /s
适用控制柜 Controllers		inCube10/20

\* 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°

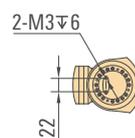
## 机体内配线·配管 Integrated dressing



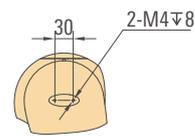
外形尺寸及运动范围 Outline dimension and Working range



大臂孔位图  
Lower arm

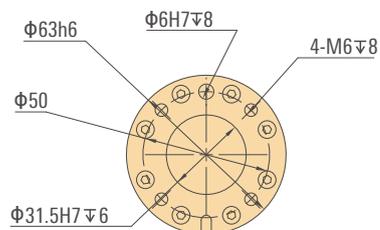


腕部孔位图  
Wrist arm

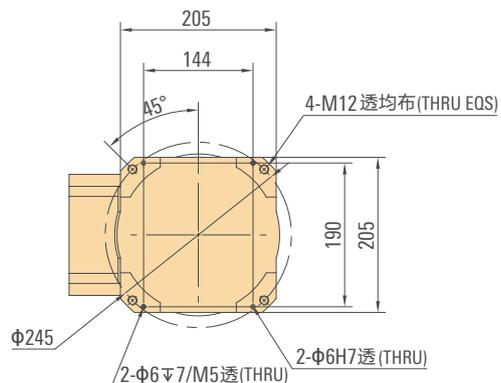


肘部孔位图  
Elbow arm

法兰图 Flange drawing



底座安装图 Base installation drawing



## AIR10-A

高速度  
高精度  
稳定性高  
腕部 IP67, 高防护  
紧凑的结构方案

High speed  
High precision  
High stability  
Wrist IP67, High-protection  
Compact design



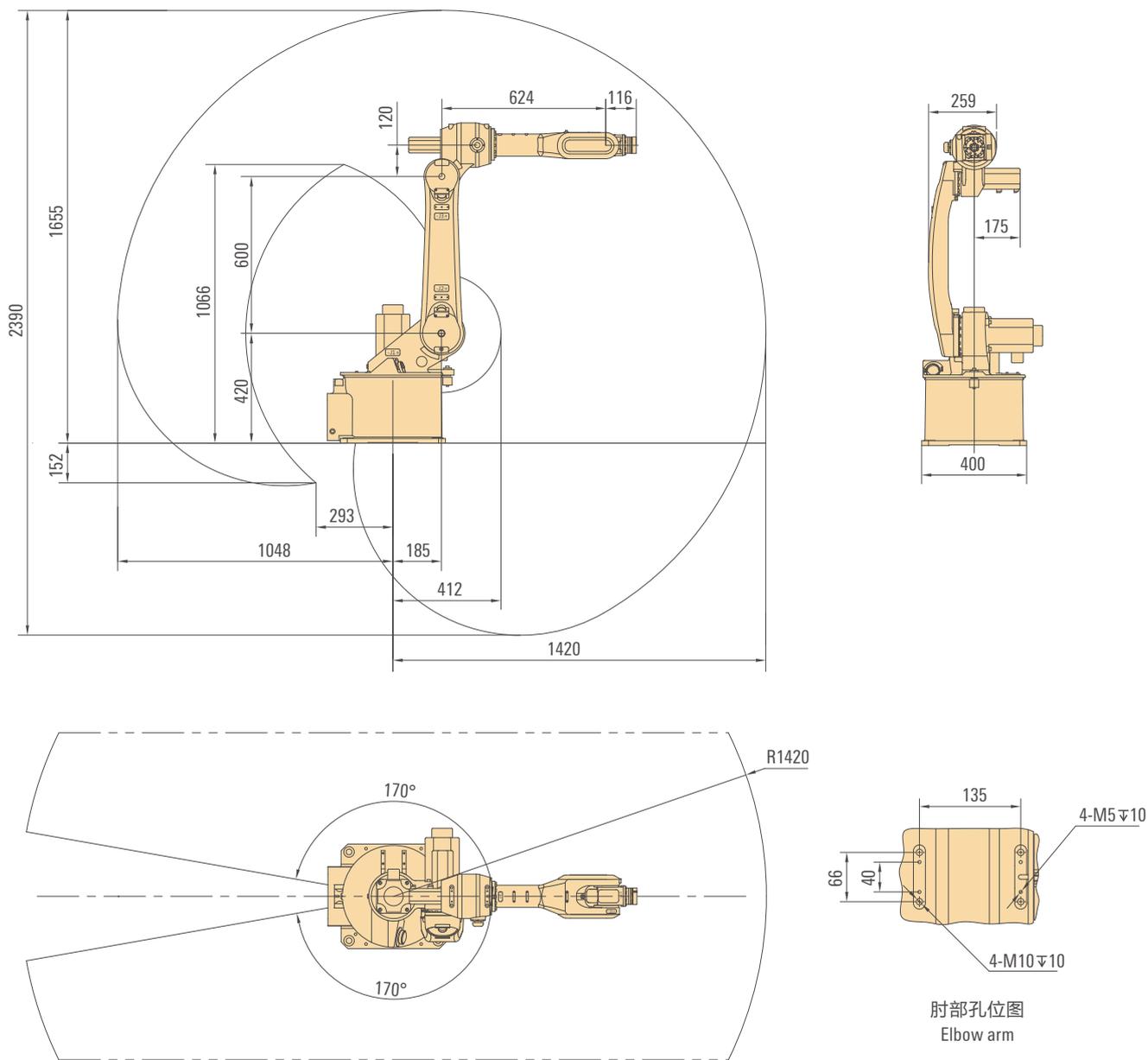
- 一流的运动速度, 高达  $\pm 0.02\text{mm}$  的重复定位精度。  
Superior moving speed, position repeatability up to  $\pm 0.02\text{mm}$ .
- 主要应用于上下料、打磨抛光、焊接等较恶劣环境下的作业, 以及搬运、码垛等高节拍需求的作业。  
AIR10-A is mainly used in loading & unloading, grinding polishing, welding and other operations in harsh environment, as well as handling, palletizing and other operations with shorter cycle time demands.

型号 Type		AIR10-A
轴数 Axes		6
最大负载 Payload		10kg
IP 等级 Ingress Protection		IP54 (腕部 IP67) IP54 (Wrist:IP67)
机器人本体 Manipulator	重量 Weight	150kg
	最大运动范围 Reach	1420mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	$\pm 0.02\text{mm}$
	运动范围 Working range	
运动范围 Working range	轴 1* Axis 1 rotation	$-170^\circ / +170^\circ$
	轴 2 Axis 2 arm	$-85^\circ / +150^\circ$
	轴 3 Axis 3 arm	$-95^\circ / +170^\circ$
	轴 4 Axis 4 wrist	$-180^\circ / +180^\circ$
	轴 5 Axis 5 bend	$-135^\circ / +135^\circ$
	轴 6 Axis 6 turn	$-360^\circ / +360^\circ$
运动速度 Rotation rate	轴 1 Axis 1 rotation	200° / s
	轴 2 Axis 2 arm	200° / s
	轴 3 Axis 3 arm	200° / s
	轴 4 Axis 4 wrist	370° / s
	轴 5 Axis 5 bend	370° / s
	轴 6 Axis 6 turn	600° / s
适用控制柜 Controllers		inCube10/20



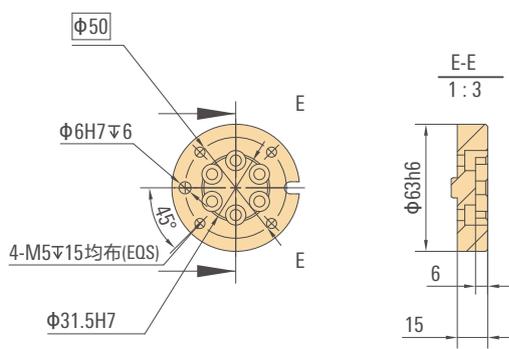
\* 若去除机械限位, 运动范围可达  $-180^\circ / +180^\circ$   
If the mechanical limit is removed, the working range can reach  $-180^\circ / +180^\circ$

外形尺寸及运动范围 Outline dimension and Working range

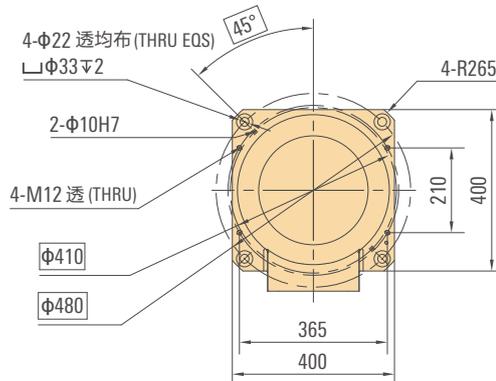


肘部孔位图  
Elbow arm

法兰图 Flange drawing



底座安装图 Base installation drawing



## AIR20-A

高速度  
高精度  
稳定性高  
腕部 IP67, 高防护  
紧凑的结构方案

High speed  
High precision  
High stability  
Wrist IP67, High protection  
Compact design



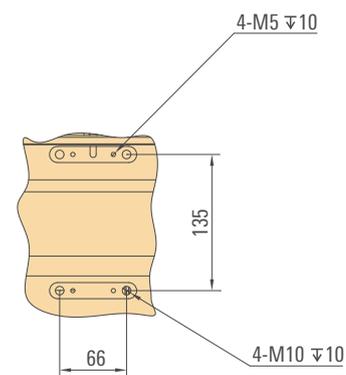
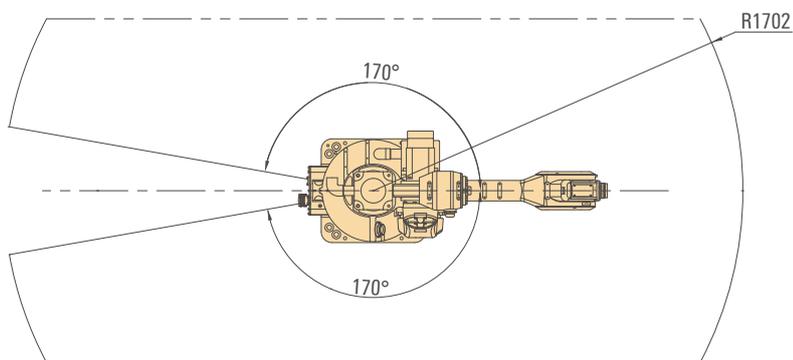
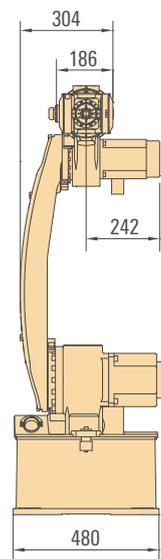
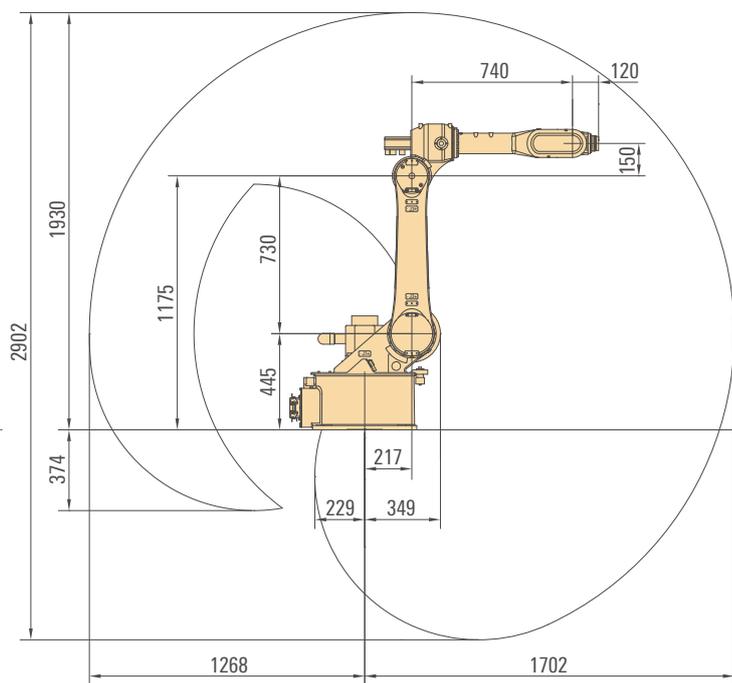
- 坚固耐用, 安装维护十分便捷。  
Strong, Durable, and easy to install and maintain.
- 一流的运动速度, 高达  $\pm 0.03\text{mm}$  的重复定位精度。  
Superior moving speed, Position repeatability up to  $\pm 0.03\text{mm}$ .
- 主要应用于上下料、搬运、码垛、注塑、包装、涂胶等。  
AIR20-A is mainly used in loading & unloading, handling, palletizing, injection molding, packing, dispensing, etc.

型号 Type		AIR20-A
轴数 Axes		6
最大负载 Payload		20kg
IP 等级 Ingress Protection		IP54 (腕部 IP67) IP54 (Wrist:IP67)
机器人本体 Manipulator	重量 Weight	260kg
	最大运动范围 Reach	1702mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	$\pm 0.03\text{mm}$
	运动范围 Working range	
运动范围 Working range	轴 1* Axis 1 rotation	$-170^\circ / +170^\circ$
	轴 2 Axis 2 arm	$-95^\circ / +155^\circ$
	轴 3 Axis 3 arm	$-95^\circ / +170^\circ$
	轴 4 Axis 4 wrist	$-185^\circ / +185^\circ$
	轴 5 Axis 5 bend	$-135^\circ / +135^\circ$
	轴 6 Axis 6 turn	$-400^\circ / +400^\circ$
运动速度 Rotation rate	轴 1 Axis 1 rotation	175° /s
	轴 2 Axis 2 arm	175° /s
	轴 3 Axis 3 arm	170° /s
	轴 4 Axis 4 wrist	355° /s
	轴 5 Axis 5 bend	355° /s
	轴 6 Axis 6 turn	600° /s
适用控制柜 Controllers		inCube12



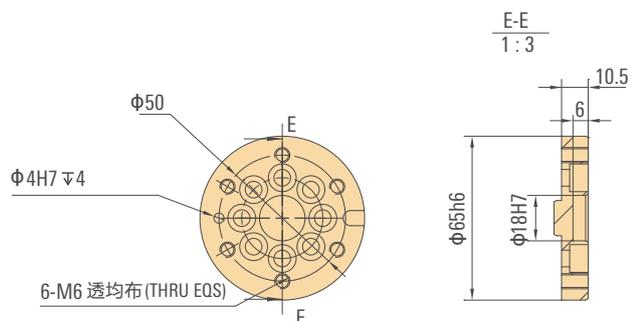
\* 若去除机械限位, 运动范围可达  $-180^\circ / +180^\circ$   
If the mechanical limit is removed, the working range can reach  $-180^\circ / +180^\circ$

外形尺寸及运动范围 Outline dimension and Working range

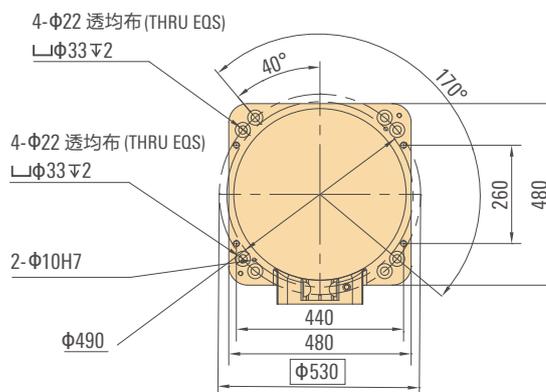


肘部孔位图  
Elbow arm

法兰图 Flange drawing



底座安装图 Base installation drawing





## AIR50-A

高速度  
高精度  
稳定性高  
高刚性的轻盈机身  
腕部 IP67

High speed  
High precision  
High stability  
High rigidity, lightweight body  
Wrist IP67

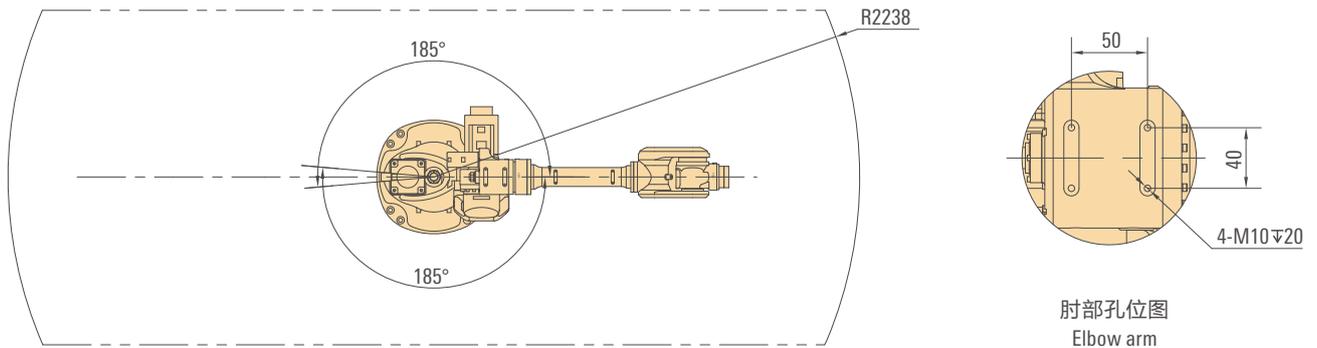
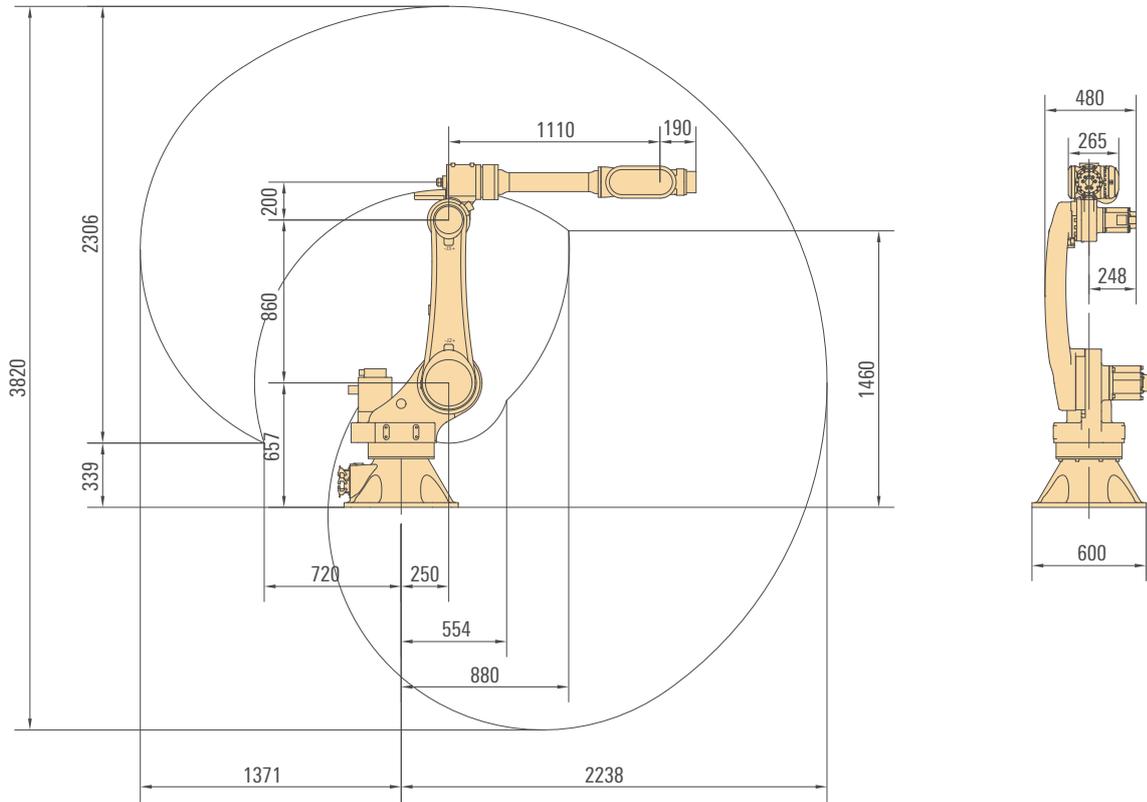
- 结构可靠稳定,优化的整体设计,使零部件磨损率降低,寿命延长。  
Reliable and stable, the optimized overall design reduces the parts wear rate, and extends the service life.
- 主要用于搬运、码垛、上下料、去毛刺、切割等作业。  
AIR50-A is mainly used in handling, palletizing, loading & unloading, deburring, cutting, etc.

型号 Type		AIR50-A
轴数 Axes		6
最大负载 Payload		50kg
IP 等级 Ingress Protection		IP54 (腕部 IP67) IP54 (Wrist:IP67)
机器人本体 Manipulator	重量 Weight	550kg
	最大运动范围 Reach	2238 mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	±0.06mm
运动范围 Working range	轴 1* Axis 1 rotation	-170° /+170°
	轴 2 Axis 2 arm	-35° /+145°
	轴 3 Axis 3 arm	-120° /+170°
	轴 4 Axis 4 wrist	-350° /+350°
	轴 5 Axis 5 bend	-120° /+120°
	轴 6 Axis 6 turn	-360° /+360°
运动速度 Rotation rate	轴 1 Axis 1 rotation	180° /s
	轴 2 Axis 2 arm	180° /s
	轴 3 Axis 3 arm	180° /s
	轴 4 Axis 4 wrist	260° /s
	轴 5 Axis 5 bend	255° /s
	轴 6 Axis 6 turn	370° /s
适用控制柜 Controllers		ARC4-50

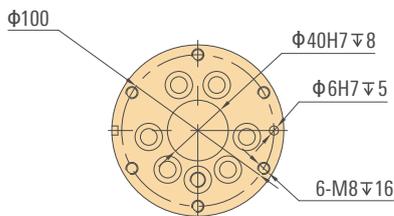


\* 若去除机械限位, 运动范围可达 -180° /+180°  
If the mechanical limit is removed, the working range can reach -180° /+180°

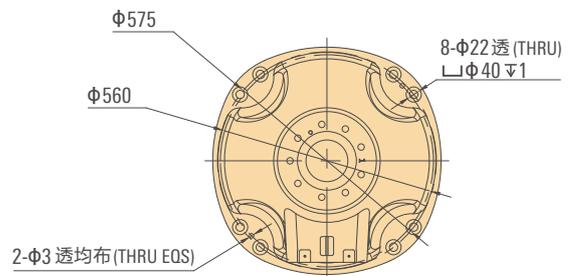
外形尺寸及运动范围 Outline dimension and Working range



法兰图 Flange drawing



底座安装图 Base installation drawing





## AIR165-A

高速度  
高精度  
高稳定性  
汽车行业点焊能手  
纤细的手腕

High speed  
High precision  
High stability  
Spot welding manipulator  
Slim wrist

- 具有连续点焊短距离快速移位能力, 0.5s 内可完成 50mm 位移的快速运动。

AIR165-A is capable of continuous spot welding and short-distance rapid displacement, and can achieve fast movement of 50mm displacement within 0.5s.

- 操作机手腕纤细, 非常适于探入到车身车厢内进行点焊作业。

AIR165-A has a slim wrist which is very suitable for spot welding in the body compartment.

- 配备了管线包, 使得焊接线缆、软管(水/气)与机器人本体紧密贴合, 有效减少空间干扰和线缆磨损及喷溅损坏, 十分适于手腕动作复杂度较高的汽车点焊作业。

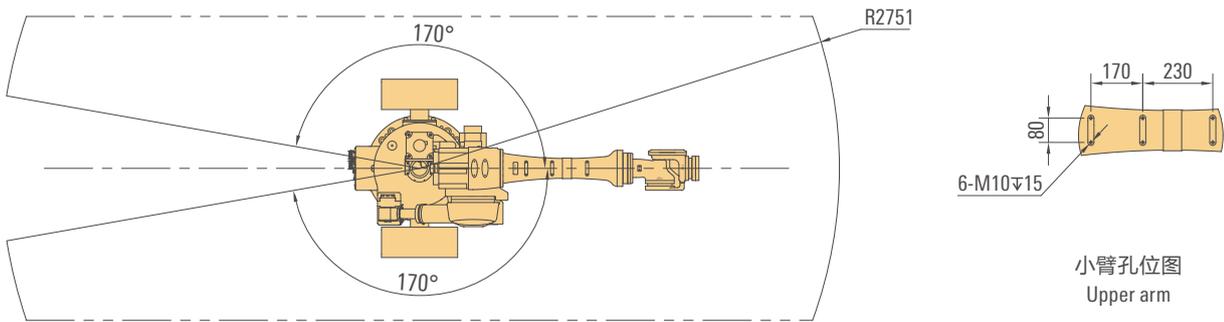
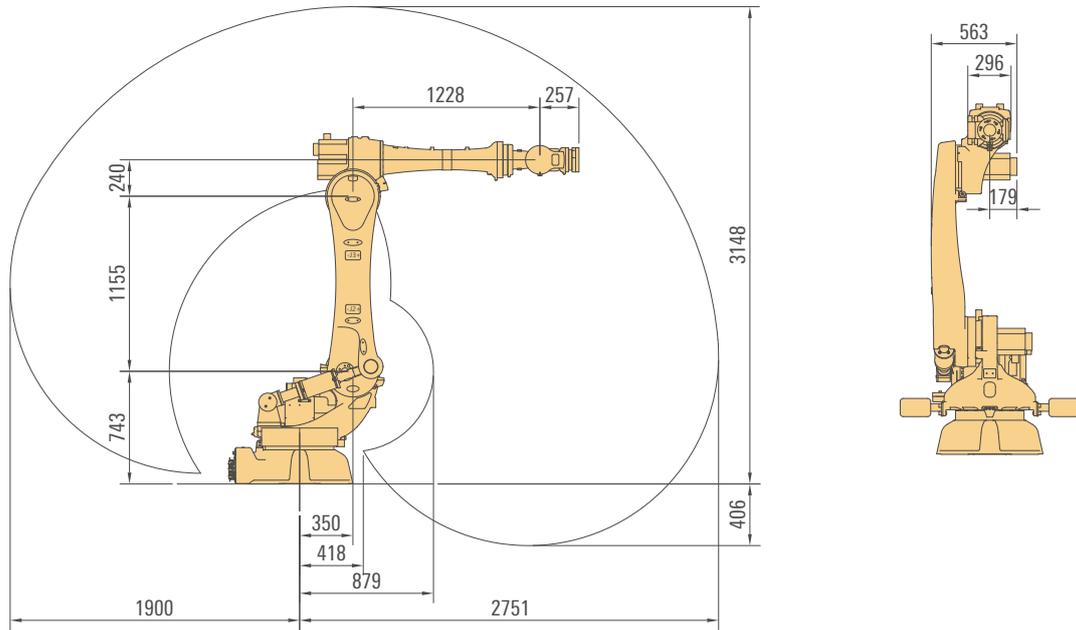
AIR165-A is equipped with dress package, which makes the welding cable and hose (water/gas) closely attached to the robot body, effectively reduces space interference, cable wear and splashing damage, very suitable for automobile spot welding with high movement complexity.

型号 Type		AIR165-A
轴数 Axes		6
最大负载 Payload		165kg
IP 等级 Ingress Protection		IP65
机器人本体 Manipulator	重量 Weight	1200kg
	最大运动范围 Reach	2750mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	±0.1mm
运动范围 Working range	轴 1* Axis 1 rotation	-170° /+170°
	轴 2 Axis 2 arm	-60° /+85°
	轴 3 Axis 3 arm	-120° /+155°
	轴 4 Axis 4 wrist	-360° /+360°
	轴 5 Axis 5 bend	-125° /+125°
	轴 6 Axis 6 turn	-360° /+360°
运动速度 Rotation rate	轴 1 Axis 1 rotation	125° /s
	轴 2 Axis 2 arm	113° /s
	轴 3 Axis 3 arm	125° /s
	轴 4 Axis 4 wrist	180° /s
	轴 5 Axis 5 bend	175° /s
	轴 6 Axis 6 turn	280° /s
适用控制柜 Controllers		ARC4-165

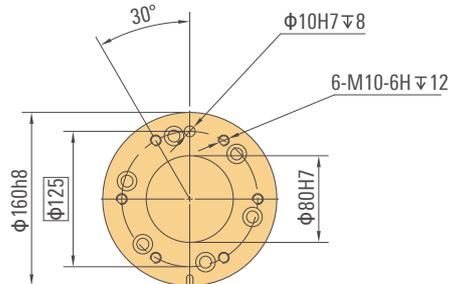


\* 若去除机械限位, 运动范围可达 -180° /+180°  
If the mechanical limit is removed, the working range can reach -180° /+180°

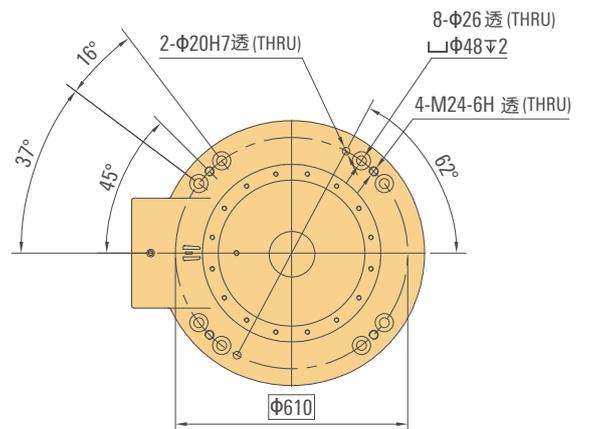
外形尺寸及运动范围 Outline dimension and Working range



法兰图 Flange drawing



底座安装图 Base installation drawing





## AIR6ARC-A (弧焊专用)

高速度  
高精度  
高稳定性  
紧凑的中空臂

High speed  
High precision  
High stability  
Compact and hollow arm

- 更适于狭窄空间内作业。  
More suitable for narrow space operation.
- 针对民用及工业领域中的焊接应用而研发,主要用于五金工具、金属家具、汽车维修、建筑、船舶、管道工程、通用机械等行业,也可用于搬运、码垛、上下料等作业。

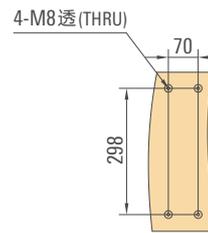
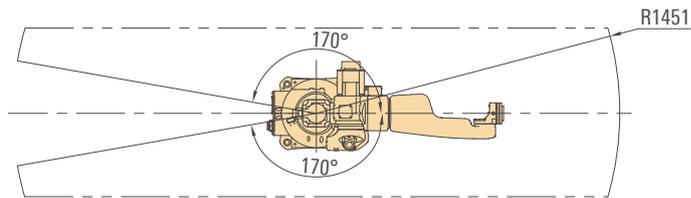
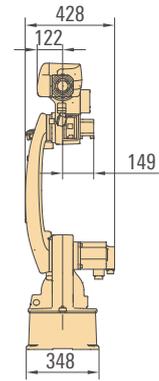
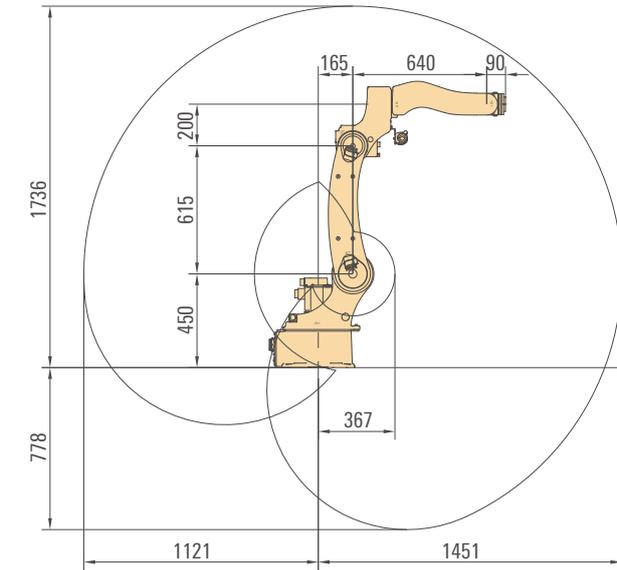
AIR6ARC-A is developed for welding applications in civil and industrial fields, mainly used in the fields of hardware tools, metal furniture, automobile maintenance, construction, shipbuilding, pipe engineering, general machinery, also can be used in handling, palletizing, loading & unloading.

型号 Type		AIR6ARC-A
轴数 Axes		6
最大负载 Payload		6kg
IP 等级 Ingress Protection		IP54
机器人本体 Manipulator	重量 Weight	90kg
	最大运动范围 Reach	1450mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	±0.06mm
运动范围 Working range	轴 1* Axis 1 rotation	-170° /+170°
	轴 2 Axis 2 arm	--95° /+155°
	轴 3 Axis 3 arm	-120° /+180°
	轴 4 Axis 4 wrist	-155° /+155°
	轴 5 Axis 5 bend	-120° /+120°
	轴 6 Axis 6 turn	-360° /+360°
运动速度 Rotation rate	轴 1 Axis 1 rotation	230° /s
	轴 2 Axis 2 arm	230° /s
	轴 3 Axis 3 arm	230° /s
	轴 4 Axis 4 wrist	430° /s
	轴 5 Axis 5 bend	430° /s
	轴 6 Axis 6 turn	630° /s
适用控制柜 Controllers		inCube20

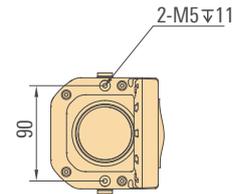


\* 若去除机械限位, 运动范围可达 -180° /+180°  
If the mechanical limit is removed, the working range can reach -180° /+180°

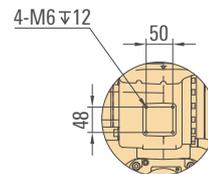
外形尺寸及运动范围 Outline dimension and Working range



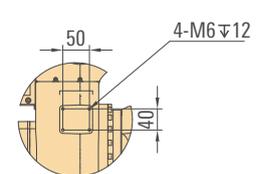
大臂孔位图  
Lower arm



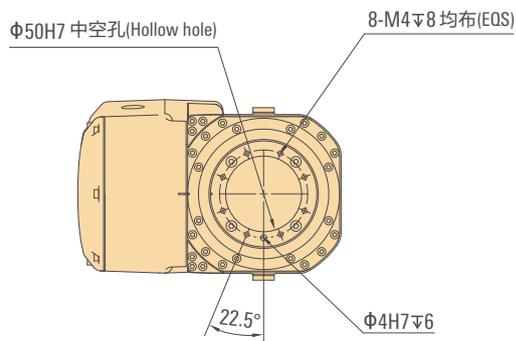
腕部孔位图  
Wrist arm



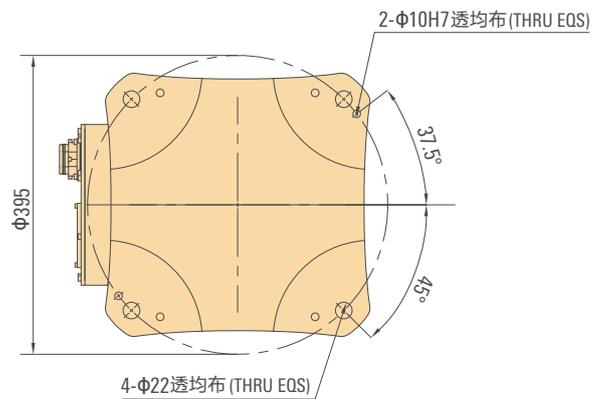
肘部孔位图  
Elbow arm



法兰图 Flange drawing



底座安装图 Base installation drawing



# 机器人控制系统

## ROBOT CONTROL SYSTEM

搭载配天全自主开发的机器人控制系统软件 ARCS，高效满足机器人对高速度、高精度运动控制性能及高可靠性的需求，实现更精确的轨迹控制及更快节拍的应用执行。

配天机器人拥有领先的驱控一体化技术，其 inCube 系列结构十分紧凑、小体积、高功率密度，具有高效的散热方案，丰富的高级功能。2016-2018 连续三年荣获业内知名媒体高工机器人网的“年度技术创新奖—金球奖”。

Equipped with ARCS, the robot control system software developed by Peitian, perfectly meets the demands for higher speed, higher precision and higher reliability of the robot, thus provides more accurate trajectory control and higher production efficiency for customers.

Peitian Robotics has leading integrated control technology. Its inCube™ series integrated control system is small, compact, with high power density, it has efficient thermal cooling solution and rich advanced functions. From 2016, the inCube™ series has won the “Annual Technology Innovation Award – Golden Globe Award” by the well-known media GaoGong Robot three years in a row.



inCube10



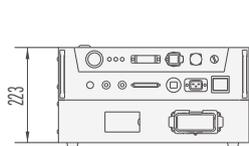
inCube12



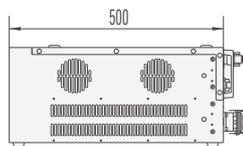
inCube20

型号 Type	inCube10	inCube12	inCube20
对应机器人本体型号 Robots Applicable	AIR3/6/6L/10-A	AIR20-A	AIR3/6/6L/6ARC/10-A
尺寸 (宽 × 高 × 深) Dimension (Width×Height×Depth)	445×223×500(mm)	445×223×500(mm)	420×133×472(mm)
重量 Weight	30kg	35kg	22kg
保护等级 Protection	IP20	IP20	IP20
运行环境温度 Temperature range	0~45° C	0~45° C	0~45° C
输入电源 Power supply	单相 Single-phase 220VAC -10%~+10% 49~ 61Hz	单相 Single-phase 220VAC -10%~+10% 49~ 61Hz	单相 Single-phase 220VAC -10%~+10% 49~ 61Hz
电源容量 Power capacity	2.2KVA	3.5KVA	2.2KVA

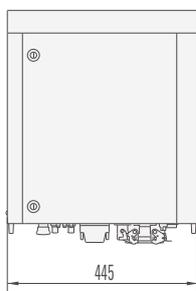
外形尺寸 Outline dimension (inCube10/12)



正视图 Front view



左视图 Side view

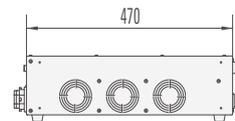


俯视图 Top view

外形尺寸 Outline dimension (inCube20)



正视图 Front view



左视图 Side view



俯视图 Top view



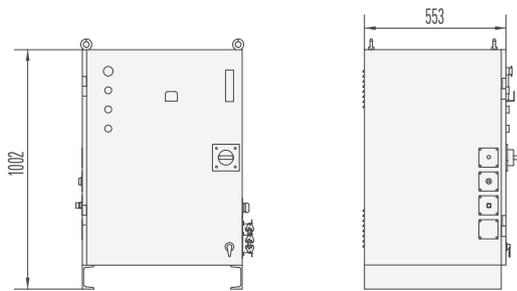
ARC4-50



ARC4-165

型号 Type	ARC4-50	ARC4-165
对应机器人本体型号 Robots Applicable	AIR50-A	AIR165-A
尺寸 (宽 × 高 × 深) Dimension ( Width×Height×Depth )	666×945×602(mm)	800×1070×642(mm)
重量 Weight	200kg	270kg
保护等级 Protection	前部 Front IP54 后部 Rear IP23	部 Front IP54 后部 Rear IP23
运行环境温度 Temperature range	0~40° C	0~40° C
输入电源 Power supply	三相 Three-phase 380VAC -10%~+10% 49~ 61Hz	三相 Three-phase 380VAC -10%~+10% 49~ 61Hz
电源容量 Power capacity	10KVA	24KVA

外形尺寸 Outline dimension



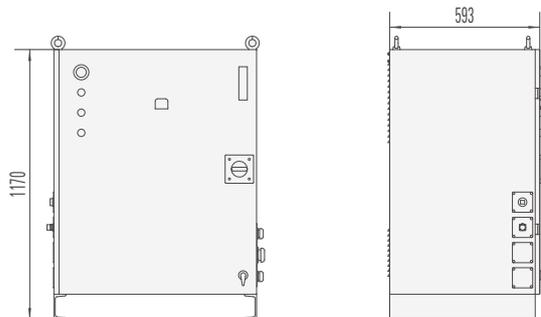
正视图 Front view

左视图 Side view



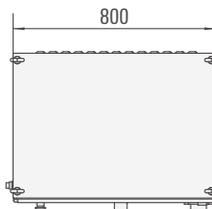
俯视图 Top view

外形尺寸 Outline dimension



正视图 Front view

左视图 Side view

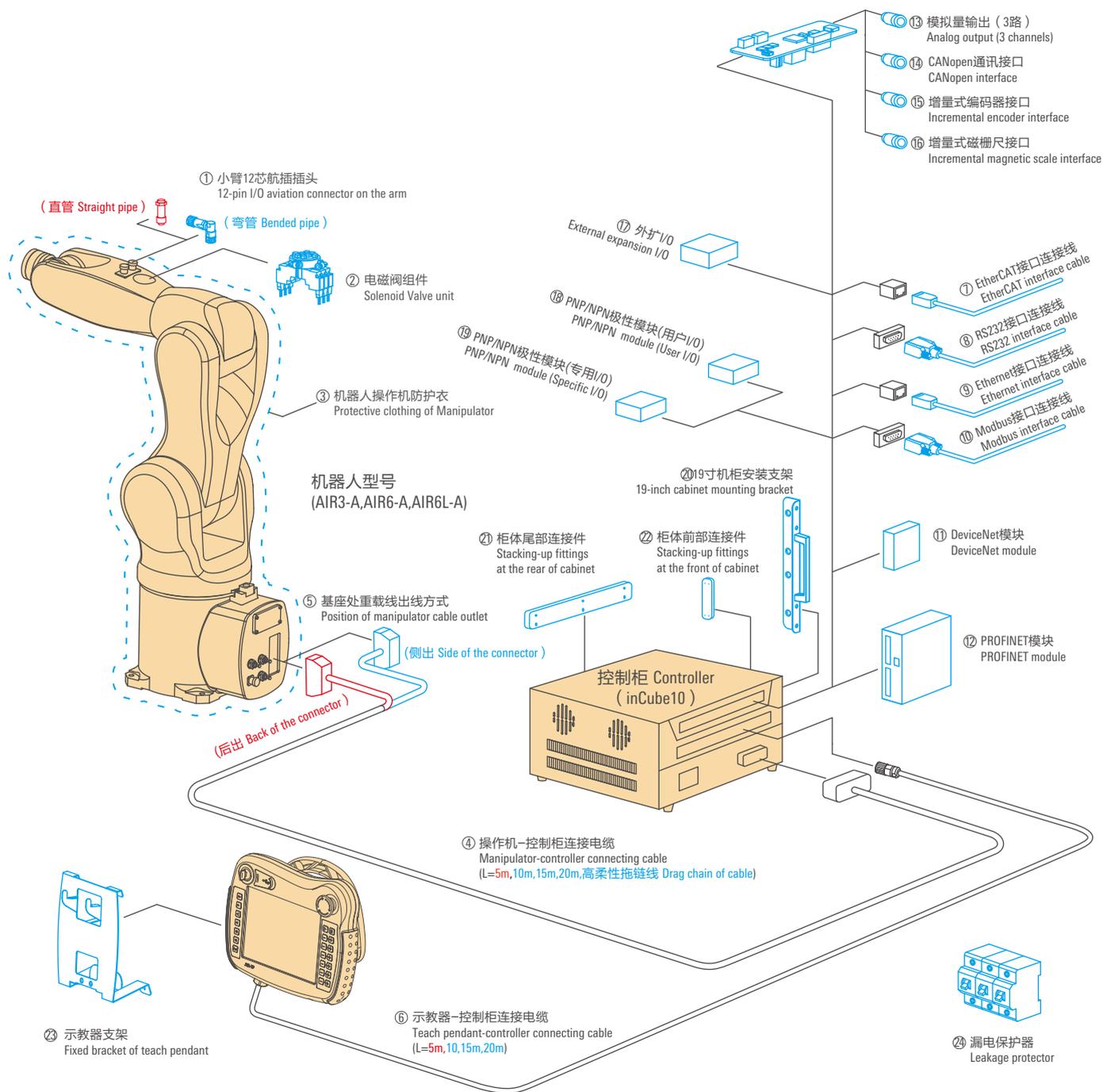


俯视图 Top view

红色 Red 标配 Standard

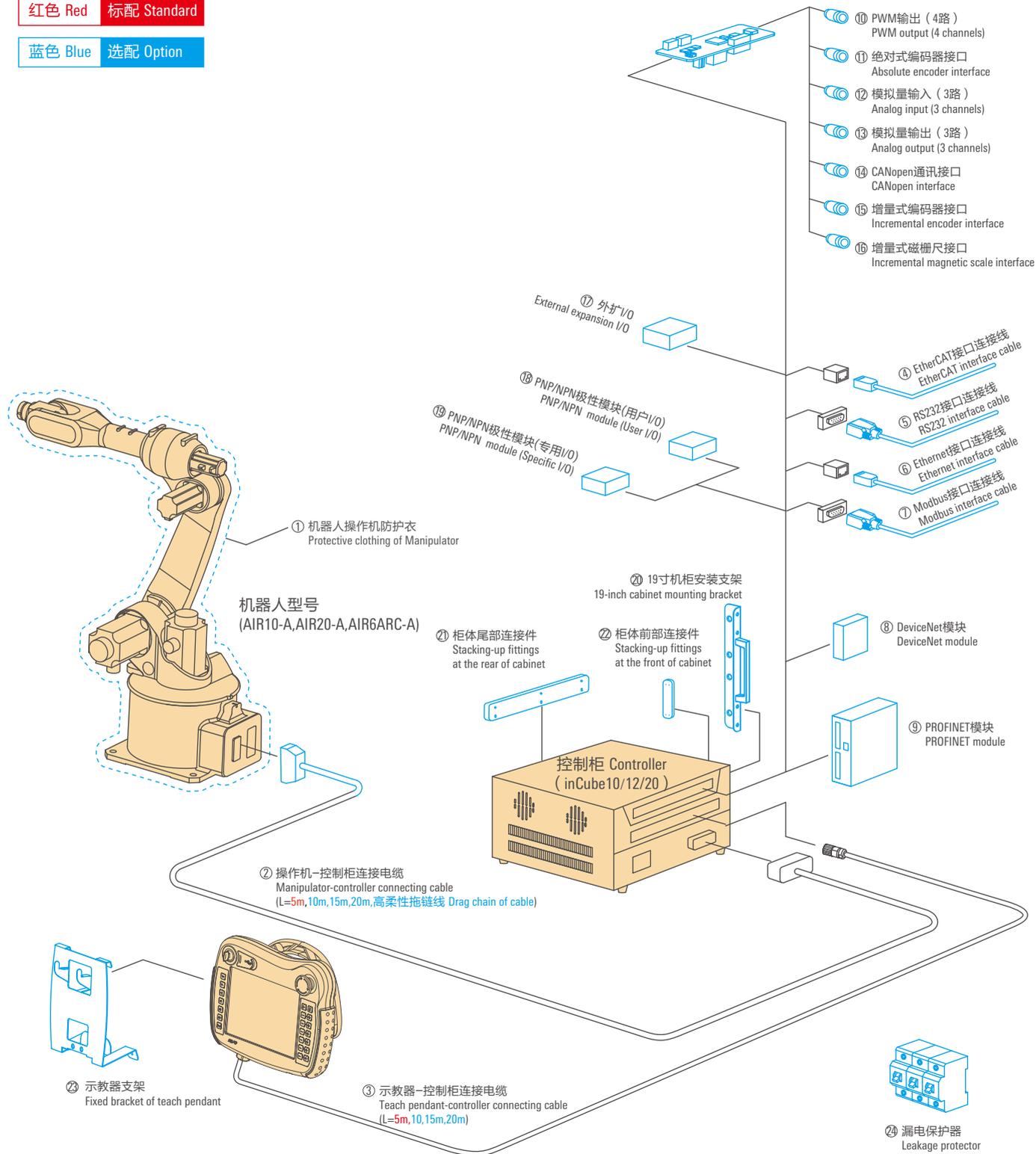
蓝色 Blue 选配 Option

AIR3/6/6L-A



	名称 Name	规格 Specification	选配明细 Details			备注 Note
			AIR3-A (inCube10)	AIR6-A (inCube10)	AIR6L-A (inCube10)	
①	小臂 12 芯航插插头 12-pin I/O aviation connector on the arm	直管 Straight pipe type		●		二选一 Alternative
		弯管 Bended pipe type	○	—	○	
②	电磁阀组件 Solenoid Valve unit	2 位双电控, 接口孔径 M5×0.8, 使用压力范围 0.1~0.7MPa 2-position dual electronic control, Interface aperture M5×0.8, Pressure range 0.1~0.7MPa	—		○	
③	机器人操作机防护衣 Protective clothing of Manipulator	防尘 Dust proof				
		防油污 Oil proof			○	
④	操作机 - 控制柜连接电缆 (重载线) Manipulator-controller connecting cable	5m		●		三选一 Alternative
		10m,15m,20m		○		
		高柔性拖链线 Drag chain of cable 5m,10m,15m,20m		○		
⑤	本体基座处重载线出线方式 Position of manipulator cable outlet	后出 Back of the connector		●		二选一 Alternative
		侧出 Side of the connector	—	—	○	
⑥	示教器 - 控制柜连接电缆 Teach pendant-controller connecting cable	5m		●		二选一 Alternative
		10m,15m,20m		○		
⑦	EtherCAT 接口连接线 EtherCAT interface cable	5m		○		
⑧	RS232 接口连接线 RS232 interface cable	3m		○		
⑨	Ethernet 接口连接线 Ethernet interface cable	5m		○		
⑩	Modbus 接口连接线 Modbus interface cable	5m		○		
⑪	DeviceNet 模块 DeviceNet module	外扩模块 External expansion module		○		
⑫	PROFINET 模块 PROFINET module	外扩模块 (从站) External expansion module(Slave)		○		
⑬	模拟量输出 (3 路) Analog output(3 channels)					
⑭	CANopen 通信接口 CANopen interface					
⑮	增量式编码器接口 Incremental encoder interface	内部板卡 Internal expansion board		○	用于与传送带通信 Using when need to communicate with conveyor	
⑯	增量式磁栅尺接口 Incremental magnetic scale interface				用于与折弯机通信 Using when need to communicate with bending machine	
⑰	外扩 I/O External expansion I/O	40DI/40DO		○		
⑱	PNP/NPN 极性模块 (用户 I/O) PNP/NPN module (User I/O)	8DI/DO		○		
⑲	PNP/NPN 极性模块 (专用 I/O) PNP/NPN module (Specific I/O)	16DI		○		
⑳	19 寸机柜安装支架 19-inch cabinet mounting bracket			○		
㉑	柜体尾部连接件 Stacking-up fittings at the rear of cabinet			○		
㉒	柜体前部连接件 Stacking-up fittings at the front of cabinet			○		
㉓	示教器支架 Fixed bracket of teach pendant			○		
㉔	漏电保护器 Leakage protector			○		

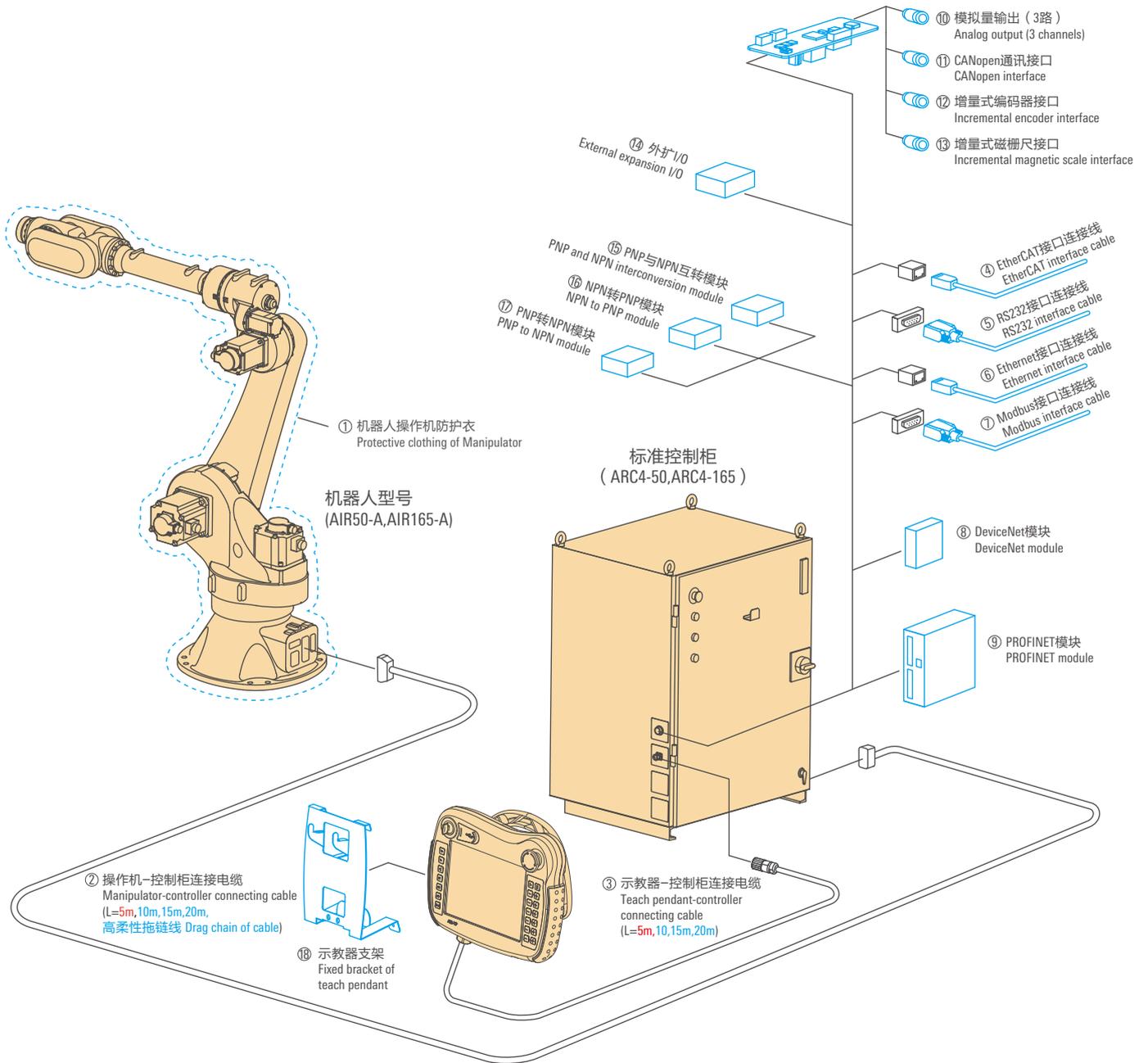
- 红色 Red
  - 标配 Standard
- 
- 蓝色 Blue
  - 选配 Option



Name	规格 Specification	选配明细 Details			备注 Note
		AIR10-A (inCube10)	AIR20-A (inCube12)	AIR6ARC-A (inCube20)	
① 机器人操作机防护衣 Protective clothing of Manipulator	防尘 Dust proof		○		
	防油污 Oil proof		○		
② 操作机 - 控制柜连接电缆 (重载线) Manipulator-controller connecting cable	5m		●		三选一 Alternative
	10m,15m,20m		○		
	高柔性拖链线 Drag chain of cable 5m,10m,15m,20m		○		
③ 示教器 - 控制柜连接电缆 Teach pendant-controller connecting cable	5m		●		二选一 Alternative
	10m,15m,20m		○		
④ EtherCAT 接口连接线 EtherCAT interface cable	5m		○		
⑤ RS232 接口连接线 RS232 interface cable	3m		○		
⑥ Ethernet 接口连接线 Ethernet interface cable	5m		○		
⑦ Modbus 接口连接线 Modbus interface cable	5m		○		
⑧ DeviceNet 模块 DeviceNet module	外扩模块 External expansion module		○		
⑨ PROFINET 模块 PROFINET module	外扩模块 (从站) External expansion module(Slave)		○		
⑩ PWM 输出 (4 路) PWM output (4 channels)	内部板卡 Internal expansion board	—			用于与传送带通信 Using when need to communicate with conveyor
⑪ 绝对式编码器接口 Absolute encoder interface		—			
⑫ 模拟量输入 (3 路) Analog input (3 channels)		—			
⑬ 模拟量输出 (3 路) Analog output(3 channels)					
⑭ CANopen 通信接口 CANopen interface					
⑮ 增量式编码器接口 Incremental encoder interface		○			用于与传送带通信 Using when need to communicate with conveyor
⑯ 增量式磁栅尺接口 Incremental magnetic scale interface					用于与折弯机通信 Using when need to communicate with bending machine
⑰ 外扩 I/O External expansion I/O	40DI/40DO		○		
⑱ PNP/NPN 极性模块 (用户 I/O) PNP/NPN module(User I/O)	8DI/DO		○		
⑲ PNP/NPN 极性模块 (专用 I/O) PNP/NPN module(Specific I/O)	16DI		○		
⑳ 19 寸机柜安装支架 19-inch cabinet mounting bracket			○		
㉑ 柜体尾部连接件 Stacking-up fittings at the rear of cabinet			○		
㉒ 柜体前部连接件 Stacking-up fittings at the front of cabinet			○		
㉓ 示教器支架 Fixed bracket of teach pendant			○		
㉔ 漏电保护器 Leakage protector			○		

红色 Red 标配 Standard

蓝色 Blue 选配 Option



名称 Name	规格 Specification	选配明细 Details		备注 Note
		AIR50-A (ARC4-50)	AIR165-A (ARC4-165)	
① 机器人操作机防护衣 Protective clothing of Manipulator	防尘 Dust proof		○	
	防油污 Oil proof		○	
② 操作机 - 控制柜连接电缆 (重载线) Manipulator-controller connecting cable	5m		●	三选一 Alternative
	10m,15m,20m		○	
	高柔性拖链线 Drag chain of cable 5m,10m,15m,20m	○	—	
③ 示教器 - 控制柜连接电缆 Teach pendant-controller connecting cable	5m		●	二选一 Alternative
	10m,15m,20m		○	
④ EtherCAT 接口连接线 EtherCAT interface cable	5m		○	
⑤ RS232 接口连接线 RS232 interface cable	3m		○	
⑥ Ethernet 接口连接线 Ethernet interface cable	5m		○	
⑦ Modbus 接口连接线 Modbus interface cable	5m		○	
⑧ DeviceNet 模块 DeviceNet module	外扩模块 External expansion module		○	
⑨ PROFINET 模块 PROFINET module	外扩模块 (从站) External expansion module(Slave)		○	
⑩ 模拟量输出 (3 路) Analog output(3 channels)	内部板卡 Internal expansion board		○	
⑪ CANopen 通信接口 CANopen interface				
⑫ 增量式编码器接口 Incremental encoder interface				用于与传送带通信 Using when need to communicate with conveyor
⑬ 增量式磁栅尺接口 Incremental magnetic scale interface				用于与折弯机通信 Using when need to communicate with bending machine
⑭ 外扩 I/O External expansion I/O	40DI/40DO		○	
⑮ PNP 与 NPN 互转模块 PNP and NPN interconversion module	8DI/DO		○	
⑯ NPN 转 PNP 模块 NPN to PNP module	16DI		○	
⑰ PNP 转 NPN 模块 PNP to NPN module	16DO		○	
⑱ 示教器支架 Fixed bracket of teach pendant			○	

● 标配 Standard      ○ 选配 Option